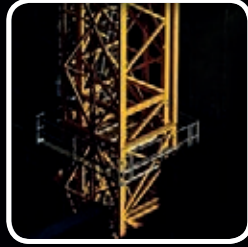
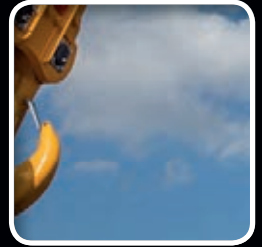


# ACT & SOURCEBOOK 2019

A KHL Group Publication

[www.khl.com/act](http://www.khl.com/act)



- North American Crane Guide
- Manufacturers' and Services Directory
- Specialized Transport Manufacturers' Directory
- **ACT** Top Lists
- 2019 Events Diary



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## Editorial

### Editor:

D. Ann Slayton Shiffler  
E-mail: d.annshiffler@khl.com

### Assistant editor:

Hannah Sundermeyer  
E-mail: hannah.sundermeyer@khl.com

### International editor:

Alex Dahm  
E-mail: alex.dahm@khl.com

### Senior editor:

Lindsey Anderson  
E-mail: lindsey.anderson@khl.com

### SC&RA Correspondents:

Tim Hillegonds, Mike Chalmers

## Production

### Production director:

Saara Rootes  
E-mail: saara.rootes@khl.com

### Production manager - KHL Americas:

Brenda Burbach  
E-mail: brenda.burbach@khl.com

### Production assistant:

Anita Bhakta  
E-mail: anit.bhakta@khl.com

### Design manager:

Jeff Gilbert

### Events design manager:

Gary Brinklow

### Print & digital designer:

Mitch Logue

### Junior designer:

Jade Hudson

## Circulation

### Circulation & data manager:

Helen Knight  
E-mail: helen.knight@khl.com

### Office manager:

Anne Chittenden  
E-mail: anne.chittenden@khl.com

### Fax subscriptions to 312 626 2115

## Sales

### Sales manager

**MATT BURK**  
205 W. Randolph St., #1320  
Chicago, IL 60606  
Phone: 312-496-3314  
Cell: 773-610-9467  
E-mail: matt.burk@khl.com

### National account manager

**BEV O'DELL**  
1427 N. Aztec Avenue  
Independence, MO 64056  
Ph: 816-886-1858  
Fax: 816-886-1884  
Cell: 816-582-5253  
E-mail: bev.odell@khl.com

### DIGITAL MEDIA DIRECTOR

Peter Watkinson  
E-mail: peter.watkinson@khl.com

### CHIEF EXECUTIVE OFFICER

James King

### CHIEF FINANCIAL OFFICER

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### CHIEF INFORMATION OFFICER

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### PRESIDENT & CHIEF OPERATING OFFICER

Trevor Pease

### KHL GROUP AMERICAS LLC

3726 E. Ember Glow Way,  
Phoenix, AZ 85050  
Ph: 480-659-0578  
Fax: 480-659-0678  
E-mail: americas@khl.com

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# Honing in

The *American Cranes & Transport Sourcebook* has become a mainstay in the digital and hard copy libraries of crane owning companies, OEMs and other industry leaders. Designed as an annual yearbook of the crane, rigging and specialized transportation sector, the *Sourcebook* features all of the most pertinent information printed in *ACT* in 2018, as well as our exclusive "North American Crane Guide." This is the only place to find our annual *ACT* Top Lists, including the **ACT 100**, **ACTTRANSPORT50**, **SPECIALIZEDLIFTING50** and **ACTTOWERCRANE50** all in one place.

The North American Crane Guide features up-to-date information about 13 categories of cranes and lifting equipment. All of the OEMs listed provided the information about their current product lines that are marketed in North America. This information is also exclusive to the *ACT Sourcebook*.

The directory section is divided into two parts: Specialized Transport Manufacturers' Directory and the Manufacturers' & Services Directory, the latter of which lists companies in 22 categories that provide products and services pertinent to the industry in North America. The 2019 *ACT Sourcebook* that you are now reading is delivered in hardcopy format, a downloadable digital issue or a tablet edition.

We appreciate producing the *ACT Sourcebook* each year because it allows us to touch base with our entire database of companies in our industry. And because of the cooperation of the industry, the *Sourcebook* has become a valuable resource. Our goal is to assess the most important information from each year and amalgamate it into this publication. The 2019 edition features our coverage of the SC&RA's Job of the Year Awards as well as pertinent information from the SC&RA, NCCCO and NBIS.

Many thanks to the companies that make our directories and guides possible by updating the surveys and spreadsheets each year. Please contact us if you would like to be a part of our annual *ACT* Top Lists and other surveys specific to the crane, rigging and specialized transportation industry. Send me an email and we will make sure to include your company in our 2020 edition.

### D.ANN SLAYTON SHIFFLER

#### Editor

KHL Group Americas, 30325 Oak Tree Drive,  
Georgetown TX 78628.

Ph: 512-868-7482, E-mail: d.annshiffler@khl.com



## Publisher's note/disclaimer

The *ACT Sourcebook* was compiled either by information obtained from an e-mailed survey or by using KHL's own custom developed on-line live database software to ensure that the information contained in these pages is as complete and accurate as possible. In some cases where equipment specifications were not updated, we relied on data supplied to the *International Cranes and Specialized Transport's World Crane Guide*, which was updated by the manufacturers in August/September 2018. *American Cranes & Transport*, KHL Group and the editors accept no responsibility for errors or omissions, missing information or incomplete information. The data contained in the crane guide is meant to be a purchasing or information guide only, not suitable for crane operators to use when operating a crane. Should you have equipment that is not listed in the tables please contact the editor, D. Ann Shiffler, to assure you gain access to the on-line updating system or receive a survey during the next updating cycle. This will ensure that your equipment is listed in the next edition, which will be compiled at the end of 2019.



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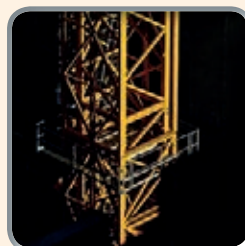
**And we're not stopping there. Come and see how we're continuing to rethink innovation at Bauma 2019.**





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INFORMATION THAT BUILDS AND POWERS THE WORLD





Students are introduced to the crane, rigging and specialized transportation sector through hands on demonstrations and interacting with industry professionals.

**Among the most popular stations at the 2018 Lift & Move USA events featured students battling head to head on a variety of rigging gear. There were welding demonstrations and a chainfall competition.**



Lift & Move USA is an industry-led initiative to address the skills gap in the USA's crane, rigging and specialized transport sectors. The program is aimed at high school and college students as well as veterans, and events will typically be attended by between 250 and 700 students.

The centerpiece of the program is regular events around the country, hosted by major players in the industry, that showcase the opportunities to build rewarding and successful careers. The workforce development outreach initiative was founded by SC&RA, SC&R Foundation, NCCCO and KHL in 2015 to showcase careers in specialized transportation, crane and rigging operations.

### Hands on

Lift & Move USA held two career exploration events in the fall of 2018, one hosted by NessCampbell Crane + Rigging in Portland, OR, and the other at Superior Cranes Inc., in Rockingham, N.C. More than 500 students and teachers attended the most recent two events alone, where they experienced authentic career learning opportunities, including the chance to try out welding and crane simulators, race against the clock in a chain fall competition, and see demonstrations of how fall protection works.

"We appreciate Lift & Move USA for what they are doing and know that the future in our industry is bright because of efforts like this," said Kyle Belkoski, director of sales for Superior Cranes.

Among the equipment used in live demonstrations were NessCampbell's Liebherr LTM 1400-7.1 500-ton all-terrain crane equipped with luffing jib



**Lift & Move USA events are held around the nation. Four are planned in 2019.**





**Morrow Equipment demonstrated a Liebherr 81K.1 fast-erecting crane. This was the first time that a tower crane was part of the Lift and Move USA program.**

and a 125-ton Dual Lane Transporter for hauling heavy loads. In addition, Morrow Equipment demonstrated a Liebherr 81K.1 fast-erecting crane. This was the first time in the history of Lift & Move USA that a tower crane was part of the program. Superior Cranes demonstrated transporting a load on a Nicholas 10-axle in-line platform trailer pulled by a 1979 American General M920 prime mover. The load, a 75-ton Link-Belt telescopic

“ Provided an authentic way for students to connect to learn about skills needed and careers available. ”

**JENNIE FENNELLE, Education Northwest**

crawler crane weighing 145,470 pounds, was hoisted by a 440-ton Terex CC 2400-1 lattice boom crawler crane.

“Events like this are critical for taking the content and translating the skills needed by a specific industry into language used by educators for the future development of career and technical education programs of study,” said Steve Klein, director, Center for School, Family, & Community at Education Northwest.

“Lift & Move USA provided an authentic way for students to connect to learn about skills needed and careers available in this industry,” said Jennie Fennelle, senior advisor in the Center for School, Family, & Community at Education Northwest. “There’s nothing like getting to stand next to a 500-ton crane that puts learning in context for the student. The same information just doesn’t translate in a photo,” she said.

**Events will typically be attended by between 250 and 700 students.**



**Lift & Move events are an opportunity for teens and young adults to have hands-on experience with equipment and careers they may previously have never considered.**



Key to success is the opportunity for employees of SC&RA member companies to share their personal stories about how they became involved in the business and their own career trajectories. It’s critical to pique students’ interest early in any number of relevant career and technical education (CTE) programs so they get on a path that may lead them to this industry.

### Forging partnerships

Not surprising, according to the Association for Career and Technical Education (ACTE), high school graduation rates for students concentrating in CTE programs is higher than the national average. In addition, a person with a CTE-related associate degree or credential will earn between \$4,000 and \$19,000 more per year than a person with a humanities associate degree.

“Holding a Lift & Move event is the kickstart to our company’s efforts to build sustainable business and education partnerships in our community,” said Brian Schleicher, director of Marketing & Communications for Superior Cranes. “We already have a close relationship with local Richmond Community College, which will continue to grow as we develop training and apprenticeship programs, and nurture our relationships with other schools in our area.”





CM Labs will be sponsoring all four 2019 Lift & Move Events as simulators were a main attraction in 2018.



Superior demonstrated transporting a load.

**The workforce development outreach initiative was founded by SC&RA, SC&R Foundation, NCCCO and KHL in 2015.**

“There is real interest by teachers to help young people understand the career path into our industry. Teachers were pleased that the message they work so tirelessly to promote was validated through the interactive stations and real-life skills demonstrated by our employees,” said Schleicher.

In fact, Superior Crane’s efforts have already resulted in one new hire. A teacher put the company in touch with a recent high school graduate who had left the area to work for a steel erector in Florida. The young man jumped at the chance to return home and had already started work for Superior Cranes as a yard hand.

Meanwhile, Lift & Move USA was honored to join a select group of workforce development experts in a one-day summit, organized by the Association for Career and Technical Education (ACTE). Participants included representatives from manufacturing, construction, hospitality and other industries, as well as the U.S. Department of Education and the Department of Labor.

“It was interesting to

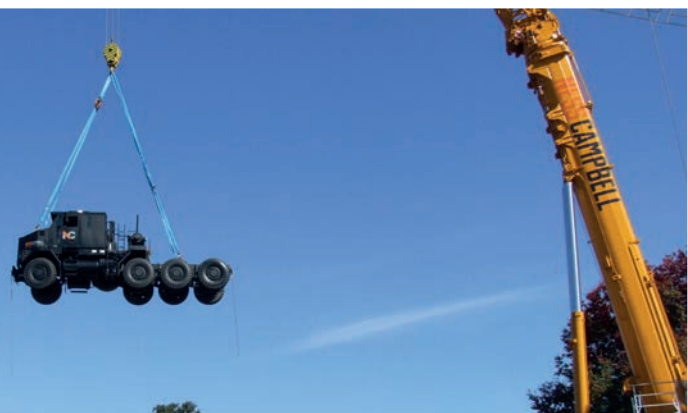


learn that despite coming from diverse businesses, we had many commonalities in the struggle to build a pipeline of skilled workers. We discussed best practices, the need for apprenticeship programs, tackled issues related to messaging and discussed how we might leverage collaboration between our groups,” said Tracy Bennett, director of Lift & Move USA.

In addition, two resources available through ACTE that SC&RA member companies may find useful are the Employer Engagement Toolkit and Building Advisory Boards that Matter. Purchase them at [www.acteonline.org/shop](http://www.acteonline.org/shop). The Summit was followed by a Career Pavilion, which was a career fair of sorts for career and technical educators. Antoy Bell of TNT Crane & Rigging, represented Lift & Move USA and SC&RA, where he shared an infographic explaining the specialized transport, crane and rigging career opportunities.

SC&RA member companies are also invited to participate in one or all of the 2019 events. Please contact Tracy Bennett at [tbennett@liftandmoveusa.com](mailto:tbennett@liftandmoveusa.com) for more information about sponsorships or attending.

- **MAY 9:** Webster, New York, hosted by Boulder Industrial Contractors Inc.
- **MAY 30:** Vaughan, Ontario, hosted by The MATCOM Group.
- **OCT 16:** Longview, Texas, hosted by BOSS Crane & Rigging and Bennett International Group.
- **NOV 6:** Houston, Texas, hosted by Liebherr USA Co.



**Students saw live demonstrations of NessCampbell’s Liebherr LTM 1400-7.1 500-ton all-terrain crane equipped with luffing jib and a 125-ton Dual Lane Transporter.**





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# Dazzling feats!

Reporting by **Mike Chalmers, Tim Hillegonds, Hannah Sundermeyer & D. Ann Shiffler**



RIGGING UNDER \$150,000

14



RIGGING \$150,000 TO \$750,000

15



RIGGING \$750,000 TO \$2 MILLION

16



RIGGING OVER \$2 MILLION

17



TRUCKING UNDER 160,000 POUNDS

19



TRUCKING 160,000 TO 500,000 POUNDS

20



TRUCKING MORE THAN 500,000 POUNDS

23



MOVING WITH SPECIALIZED EQUIPMENT

24



# A hairpin hoist

BARNHART

RIGGING UNDER \$150,000

**B**arnhart installed a silicon reactor for their client, Evonik, in late March of 2017 – a journey that took them through incredibly tight spaces and ultimately up a vertical shaft for securement on the second floor of a manufacturing facility. While installation options were limited, a Navisworks model was eventually provided to Barnhart with the reactor's final location, which revealed that a path through the facility was possible – but just barely – with many immovable obstructions.

“The big question was, what type of transport and rigging system could we use given the vertical and horizontal challenges everywhere,” noted Brian Thomas, vice president, business development at Barnhart.

Two key moves, in fact, involved right-hand turns with as little as 1.8 inches of clearance. And once the reactor (46,000

pounds, 11 feet 5.5 inches in diameter and 18 feet 11 inches tall) snaked its way through the facility, it had to be tailed to vertical – with the model showing less than three inches of clearance. And the plant needed to stay in operation!

## Perfect fit

The solution: modify the shipping frame to lower overall height to be able to use traditional rigging tools, and lift vertically as high as possible using standard chain hoists.

This solution would add a means of transport to the shipping saddles to keep the reactor as low as possible while staying within the horizontal constraints of the travel path. At the erection area, the reactor would be tailed to vertical and hoisted to its final set location.

“But the reactor was not designed to be lifted from the bottom,” explained Thomas. “There was minimum clearance above its final set location, which required a low-profile hoist system that could only take it so high. So, we had to jack from underneath.”

Ultimately, the reactor was hoisted vertically as high as possible, using the Barnhart-designed low-profile hoist system. The jackup tower (which fit under the reactor by just two inches) then took the load – at which point the hoist system had to be removed so the reactor could then be pushed up from underneath to its final set location.

“Additionally, the jackup tower had its own setup challenges, given the tight clearances,” said Thomas.

So, roller support frames were added outboard from saddle to saddle, which didn't add to the overall height or width of the reactor. The low-profile system was accomplished by using two 16T air hoists with trolleys (from Lifting Gear Hire) – supported by W8 beams that were supported on temporary 16.5-inch stub columns.

The stub columns (welded into place) and the column height were tall enough to pull the reactor up with only a link and a half of chain to spare. Barnhart also collaborated with the reactor manufacturer to develop a jacking frame that could be partially disassembled



**From unload to installation, Barnhart's self-named 'Pull-up and Push-up' job was a battle of wits and a game of inches.**

during tailing and then reinstalled for jacking operations.

“It added needed stability with connection points up the side of the reactor, and those were oriented around the reactor at the same locations of its support haunches so it would stay within the overall envelope of the reactor,” said Thomas.

The low-profile roller system worked perfectly, providing less than two inches of vertical clearance between overhead obstructions.

“The jackup tower consisted of our Lift Systems 44A gantry, proving to be the perfect tool,” said Thomas. “Once past the low-clearance process pipe, header beams were installed for even distribution of vertical lift, secured with C-clamps.”

Ultimately, the jackup tower lifted vertically from underneath, relieving the load from the chain hoist. The reactor was pushed up vertically with watchmen on all sides and in constant communication with the lift director and the operator – with anyone able to call an “All Stop.”

At final elevation, Barnhart installed the support steel, and the reactor was lowered and secured. The jackup frame was removed and Barnhart demobilized – beating the proposed installation schedule by 50 percent. ■





# Top Ram transfer

FAGIOLI

RIGGING \$150,000 TO \$750,000

From June to September 2017, Fagioli was involved in a challenging operation in Romania for the lifting, skidding and jacking down operations of a 182.4-ton Top Ram Guide (TRG) at Costanza – by means of elevator system – for their client, Saipem.

Due to head-turning scope and scale, the precision job left no room for error, comprising the transfer of the TRG from a storage position to a drilling tower on top of the Scarabeo 9 offshore ship – a last-generation, ultra-deepwater semisubmersible unit equipped with a dual RamRig and a Dynamic Positioning (DP3) system, and designed to operate in water up to 12,000 feet and drill up to 50,000 feet below the rotary table.

The main project procedures included Fagioli lifting the TRG by means of elevator system onto Fagioli Storage Towers; skidding it onto the Fagioli Elevator System; transferring the load from hydraulic jacks to the skidding rollers; and jacking down the TRG with eight hydraulic jacks.

Such a job might seem impressive, but perhaps not mind-blowing, until one considers the TRG's dimensions: 24 meters in length, 7 meters wide, 18 meters tall and again, over 182 tons.

## Equipment menagerie

The equipment used to get this job done was as striking as the job itself: four towers with base frames welded to the raised deck (up to 46 meters height); one elevator frame composed by two longitudinal girders and two transversal bracings; eight strand jacks (L-50) for the elevator system;

four strand jacks (L-15) for skidding; eight hydraulic jacks (50-ton capacity – each one 150 mm max stroke) for jacking down operations; and four rollers (200-ton capacity each) for skidding operations.

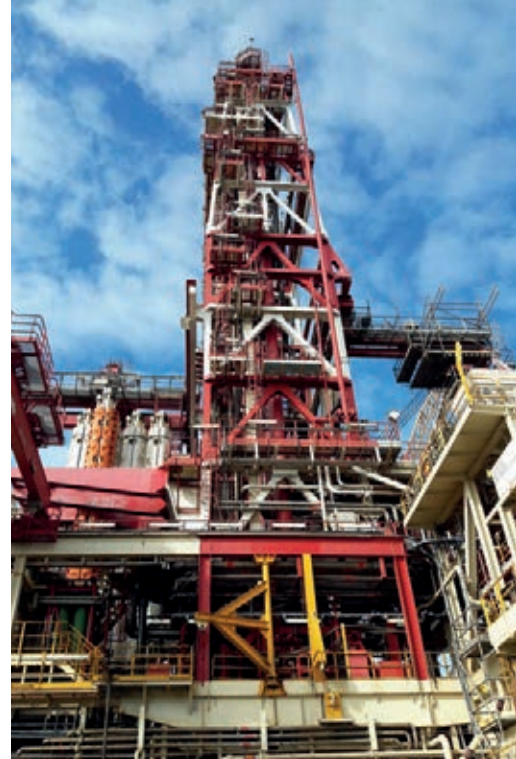
“After the erection of the skidding system, and the sea fastening of the Top Ram Guide was removed, we started the operation,” explained Edoardo Ascione, president and managing director at Fagioli Inc. “We installed the tirlorts and started to take the load with strand jacks (L-50). Each stroke was about four hundred millimeters, with a continuous check of eventual oscillations by the item and the elevator system.”

Ascione added that the load was gradually increased from the hydraulic jacks in increments of 20 percent.

“A remote computer system checked the tolerances and eventual vertical displacements.”

Fagioli proceeded with the lifting operation until the elevator reached the design skidding position, when the elevator skidding rails aligned with the cantilever skidding rails. At each loading step, Fagioli operators checked the tower verticality, the raiser deck deflection, the elevator girder planarity and any deformations.

“After checking the alignment of skid tracks on the cantilever beams and on the elevator girders, we installed the strand jacks (L-15) and connected to the Top Ram Guide: two L-15 on stern side to move the module onto the cantilever beams and two onto the elevator girder bow side for the contingency plan,” said Ascione.



**Such a job might seem impressive, but perhaps not mind-blowing, until one considers the Top Ram Guide's dimensions: 24 meters long, 7 meters wide, 18 meters tall and again, over 182 tons.**

Operators then connected and tightened four 5-ton turnbuckles from the elevator girder to the cantilever beam, and installed two bridge elements. Eight stoppers were removed from the skidding rails. Then, the skidding operation was executed, adjusting the stroke as needed to keep the skid tracks at the same elevation.

Eight 50-ton capacity hydraulic jacks were then positioned under the TRG frame beam – with proper shimming underneath the jacks in order to have a free gap of approximately 10 mm between the jacks and the TRG frame.

The jacks were raised until in contact with the top frame beam of the module. Once the full load was reached on the jacks, the n°L15 FAH from the TRG were disconnected and the eight jacks were raised.

The TRG was lifted and the rollers from the Ram Guide top frame were removed. The Ram Guide was lowered until connection plates were in contact with the rest of the structure.





# A superior span

BARNHART

RIGGING \$750,000 TO \$2 MILLION



**B**arnhart's winning project took place at a nuclear power plant in Louisiana and required an innovative concept and aggressive execution plan.

One of the nuclear facility's two clarifier units – the units which clean water from the Mississippi River so it can be used as cooling water to the plant – was in need of repair. The clarifier tank is a concrete structure with a wall height of 28 feet and an inside diameter of 178 feet. The “clarifier core,” which refers to the rotating equipment in the center of the clarifying tank, was supported by 16 lateral supports and tie rods that attached to the tank wall. The lateral supports had buckled, and ten out of the 16 were structurally compromised.

## Immediate challenges

“The challenge for Barnhart began almost immediately,” said Gene Pugh, Barnhart project sales, “since once the clarifier tank had been drained and inspected from the observation platform, plant safety protocol prohibited anyone from entering the tank. There were many things to consider in

evaluating repair options, but employee/worker safety was paramount to the plan that would eventually be approved by the customer.”

Barnhart's scope was to provide a lift system capable of lifting from above the 600,000-pound clarifier structure so as to remove the damaged lateral supports, while also providing crane and rigging support for the subsequent reconstruction of the clarifier unit.

The customer initially suggested bringing in a heavy-lift crane to hold the structure while the lateral supports were removed, a method that would require the crane to hold the load for three weeks, and was ultimately deemed not feasible.

Barnhart next considered a girder configuration on the clarifier wall, and then a girder system independent of the wall. The concrete wall, which was 28 feet tall and 2 feet thick, would need to be evaluated for its vertical-load capacities, and the rigging design would be complex.

After all options were considered, a four-tiered girder arrangement on the concrete wall was proposed and accepted. The base tier was comprised of two eight-foot girders that were each 180 feet long with a 164-foot span. This was the largest span Barnhart had ever attempted.

The second tier was comprised of two temporary bridge girders that were each 76 feet long. The second tier was crucial as it allowed for the load points on the eight-foot girders to be moved closer to the walls instead of being closer to the center. This reduced the deflection on the

eight-foot girders to acceptable levels and gave Barnhart the headroom needed to obtain the necessary sling angles for the rigging method.

The third tier was comprised of two five-foot transition girders that were each 84 feet long with a 74-foot span. The top tier consisted of two trapezoidal girders that supported the rigging – each one was 72 feet long with a 55-foot span. The upper assembly also had slide systems on tiers three and four that enabled precise placement of the rigging over the structure.

Barnhart's concept and execution plan adhered to all of the customer's site-safety procedures. The rigging design and fabrication allowed for the 600,000-pound load to be lifted safely from 24 rigging locations, which ensured the stability of the structure. The lifting solution was resistant to virtually any severe weather events that could have occurred during the course of the project. Even the expected deflection was mitigated with several design innovations, including the strategic placement of the second-tier girders and rockers, also developed by Barnhart, which nullified the effect of deflection on the upper lift system.

Finally, the assembly and disassembly plans were created with worker safety as the number one priority. Barnhart held multiple job-hazard analysis meetings (JHA) each day and supervisors, operators and riggers went through additional site-specific training to secure their Qual-cards. Most importantly, the project was injury and accident free. ■



**Barnhart provided a lift system capable of lifting from above the 600,000-pound clarifier structure so as to remove the damaged lateral supports, while also providing crane and rigging support for the subsequent reconstruction of the clarifier unit.**



# Protecting Venice!

FAGIOLI

RIGGING OVER \$2 MILLION



The “fishing beam” was gently lowered and connected to the gate. After connection, the gate was lifted by four strand jacks positioned on top of the lifting structure so the barge could sail out from under it.



The first part of this award-winning SC&RA Job of the Year occurred between 2012 and 2014 when Fagioli transported and installed a number of 12,000-ton concrete caissons which were used as bases for the mobile barriers that isolate and protect the Venetian Lagoon from the Adriatic Sea when the tide reaches above established levels.

Between 2016 and 2017, Fagioli completed the award-winning second phase of this project: installing the 19 corresponding 450-ton mobile gates with a Fagioli-built customized launching system.

“After undergoing months of detailed analysis, tests and 3D simulations,” said Edoardo Ascione, president and managing director, “the Fagioli engineering department designed an innovative launching system to facilitate the installation of all 19 mobile gates. The launching system had a lifting capacity of 690 tons, a loading capacity of 870 tons and contained a movable tower system capable of rotating 180 degrees.”

## Innovative launching system

To assemble the various sections of the launching system, Fagioli used a gantry lifting system, self-propelled modular trailers (SPMTs) and mobile cranes. First, Fagioli assembled the crosshead beam. Next, the towers were assembled. Fagioli then used SPMTs to mobilize the items and a 600-ton gantry lifting system to lift the structure. The crosshead beams were designed with four top-mounted, 300-ton strand jacks, which were used for the lowering/lifting operations of the mobile gates.

Next, Fagioli completed the assembly of the lateral movable towers. The towers were connected at the top and bottom with two beams referred to as top and bottom frames. A middle frame was also used to allow the rotation of the towers. In order to execute the installation of the mobile gates, Fagioli built a dedicated lifting system called a “fishing beam.” This lifting device was connected to the strand jacking system, allowing the hooking of the gate for lowering it

into its final position underwater.

During the project, Fagioli also custom built a structure they referred to as a “transport beam,” which was equipped with four 300-ton capacity strand jacks, as well as power packs for the skidding of the beams. The structure was designed to lift the gantry off one caisson and reposition it onto another caisson for subsequent gate installations.

Additionally, Fagioli used a 36-axle SPMT for various hauling tasks, which included moving gantry and beam sections during assembly operations and transporting the gantry launching system, mobile gates and transport beams onto the barge.

In order to complete the entire operation as efficiently as possible, Fagioli employed a dedicated barge to transport the gates – with winches positioned on the barge for mooring operations. Fagioli was also in charge of the ballasting operations.

Once the barge carrying the launching system arrived at Malamocco, the gantry lifting system was placed in position over the first 12,000-ton caisson. The barge was

moored and kept steady by tugboats. Once positioned, the gantry launching structure opened the movable tower systems.

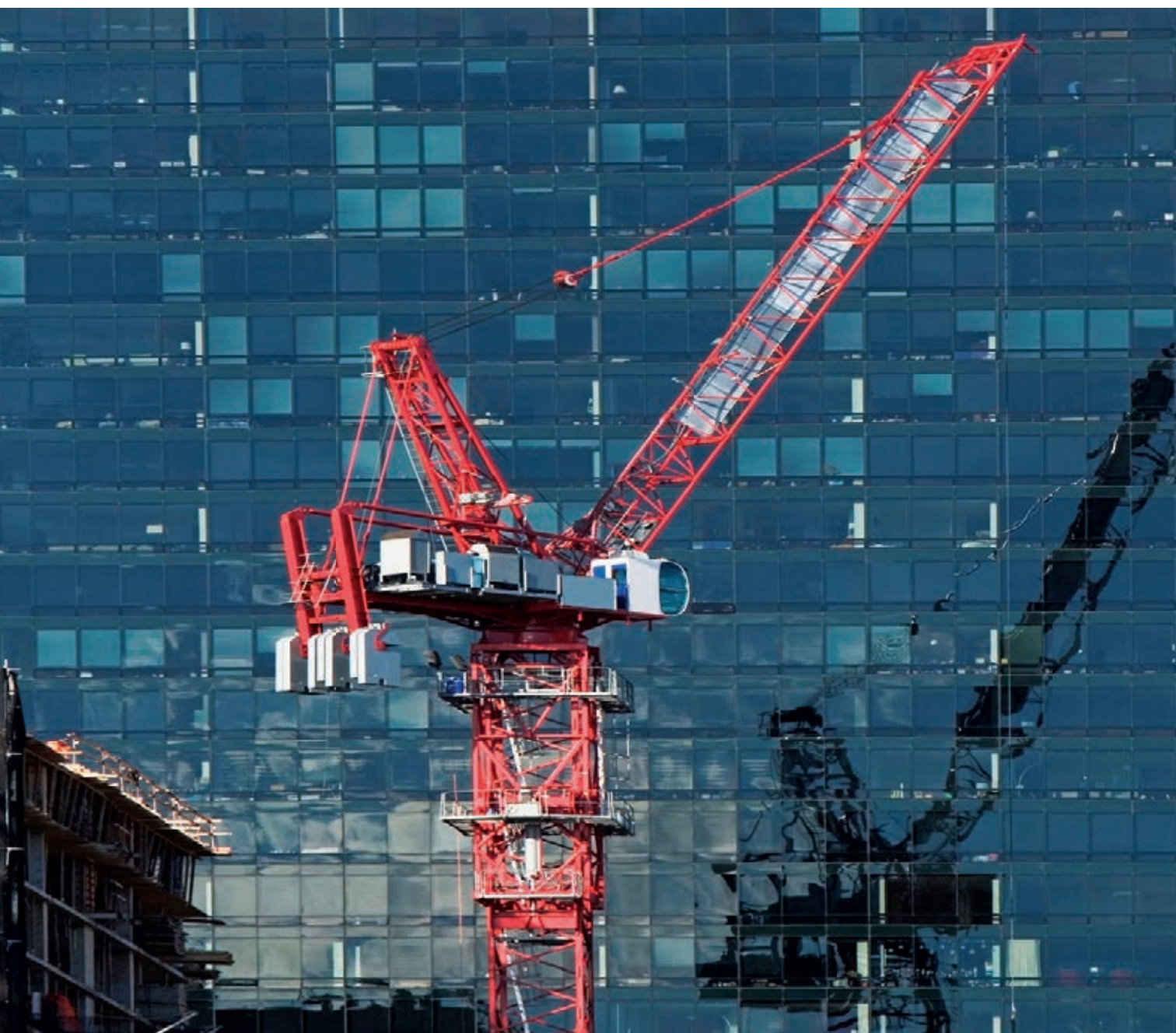
The bottom towers were then joined together with the middle frame, and then the barge was unmoored and returned to Pellestrina Island where all the mobile gates were stored.

Using SPMTs, Fagioli then loaded the mobile gate onto the barge, after which it returned to Malamocco. The barge was moored underneath the launching system previously laid onto the caissons. The “fishing beam” was gently lowered and connected to the gate. After connection, the gate was lifted by four strand jacks positioned on top of the lifting structure so the barge could sail out from under it. The mobile gate was then lowered into the water by the strand jacks connected to the fishing beams. The final operation was connecting the gate to the caisson.

Due to their rigorous engineering and safety studies, Fagioli performed this extremely precise sea-based operation with zero accidents.



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# Meticulous move

PRECISION SPECIALIZED

TRUCKING UNDER 160,000 POUNDS



**After two years of intricate planning, Precision Specialized Division tackled the transport of 16 modules ranging in sizes from 40 by 12 by 12 feet to 40 by 16 by 14 feet.**

**Z**eton, the world's largest designer and builder of modular plant and demonstration scale systems, reached out to Precision Specialized Division in November 2015 with a peculiar question: What's the largest possible load you could transport by road from our plant in Ontario to Linden, New Jersey?

"The client for this particular job approached us and they had preselected a module size that was different than our norm. In this case, 16 feet wide by 14 feet high was well beyond their usual build size and the end destination was of concern," said Ed Bernard, vice president, Precision Specialized Division based in Woodbridge, Ontario, Canada.

This job involved transporting expensive and fragile high-tech instruments, cased in thousands of pounds of steel, over a precarious route from North America's busiest traffic corridor to one of its most populated – just 20 miles southwest of New York City.

## Reverse engineering

Before they could begin designing, Zeton needed Precision to develop a logistical plan for something not yet built. That meant reverse engineering the whole process two years in advance.

Precision's team discovered many challenges. Weight-per-axle restrictions in Ontario, at the Welland Canal and at the Peace Bridge to cross the Niagara River into the U.S., required numerous special permit applications. Then, in the U.S., constantly changing construction patterns would make it extremely difficult to determine a route, especially in Pennsylvania. The only viable option would mean a full closure, in both directions, of a 5-mile stretch on State Route 737 just west of Allentown, PA. This small, two-lane road was filled with sharp corners. Without shoulders, the route would require state police to hold traffic at both ends and escort the convoy through.

The team also faced an extremely difficult delivery site. Maneuvering inside the largest petrochemical facility on the East Coast, while in operation, and whose infrastructure was designed in 1909, was going to present very tight corner scenarios and involve the construction of custom rail beams and modifications to their perimeter trailer.

After two years of hard work, Precision had secured permits, designed solutions that eliminated the highest risks and mitigated the impact of secondary issues. But they still had to solve getting the modules out of Zeton's facility.

"When Zeton fully completed their project, we were faced with a total of

16 modules ranging from 40 feet by 12 feet by 12 feet on the small end, to their largest at 40 feet by 16 feet by 14 feet," said Bernard. "We determined the trailer required to transport the larger modules was our Aspen 95-ton, 13 axle rear steer perimeter. The perimeter allowed us to travel lower to the ground by placing the module inside the rails. We used a standard 25-foot deck, but the second had to be a custom-made 13-foot deck, specifically designed to fit the limited access space at the delivery site."

Zeton's shipping bay door at a width of 17 feet meant it was built to accommodate their modules' width, but not that of the perimeter trailer, which exceeded over 18 feet. This left Precision to perform a two-trailer load-out.

The loading process was intricate with each module detached, lifted and lowered to a horizontal position. They were then placed onto a regular double-drop extendable trailer and moved outside the facility. Two 80-ton cranes then lifted the modules again and transferred them over to a customized perimeter trailer, where the crew prepped them for transport.

One by one, each module would make the six-day journey. At the delivery site, it was a matter of precision. Each turn required careful consideration, and thanks to custom-designed rail beams, the team was able to position the modules exactly where they were needed. ■ >20



# Navigating nature

EDWARDS

TRUCKING 160,000 TO 500,000 POUNDS

In May 2017, Edwards was contracted to haul three of the largest-ever fully assembled turbines from Schenectady, NY to a new combined cycle power plant in the hills of Jessup, PA. From the moment Edwards was awarded these moves, the intricate pre-planning, problem solving and conceptualization of how to move cargo 375,000 pounds, 16.25 feet tall and 16.48 feet wide across a 260-mile route began.

Edwards faced a new challenge down every channel, from failing bridge structure analysis to tight unyielding turns, requiring engineered overlay designs and meticulously engineered traffic control plans. These moves required the cooperation of approximately 20 local jurisdictions, many upper level state DOT personnel in New York and Pennsylvania, several power companies, countless law enforcement officers, private property owners, 12 bucket truck operators and finally three civilian escorts, along with Edwards personal escort vehicles.

After six months of pre-planning, the first turbine was loaded via in-plant overhead crane onto the Edwards dual lane 32-axle Aspen A500 expandable transporter with three Kenworth prime movers attached. The final gross weight

of the configuration came to 913,227 pounds and measured 345 feet long, 18 feet tall and its widest expansion was 20 feet 2 inches wide.

On May 2, 2017, the loaded turbine began its 10-day trek. The first days included mitigating two structures utilizing Edwards 30 and 40-foot-long bridge jumpers, as well as steep mountainous grades and narrow winding roads.

## Tricky switchback turn

After bridge mitigations, Edwards had one last major task to complete. To circumvent a very sharp switchback turn in the Binghamton area, utilizing state troopers, Edwards stopped traffic over a major interstate while simultaneously stopping the cross traffic on a major local road. The team then backed the entire transporter across the bridge onto a local road, pulling forward onto the interstate once the turn was mitigated.

The following days included additional tight turns that required meticulous maneuvering of the trailer, including a turn around a historic antique shop in which an additional crew moved ahead of the load and laid out more than 60 mud mats to cover the dirt lot. There were two bridge structures to be jumped



and two overpasses to work around.

Mitigation of the second overpass shut down one of the heaviest-traveled interstates in the area. The transporter backed up the offramp traveling north in the southbound lanes, and then crossed the median to continue south in the northbound lanes. The transporter then exited onto a local road. This was completed utilizing a multitude of mud mats, seven law enforcement officers and extensive strategic planning.

The load continued its planned path to a pre-negotiated transload location where it was lifted by Edwards 700-ton gantry system, then lowered onto an Edwards 18-line Goldhofer trailer with the nation's first-ever ADDrive 6-line trailer engine section pushing, and a Kenworth prime mover pulling the load. The Goldhofer ADDrive module replaced the back two prime movers, thus reducing total weight of the load and providing maximum maneuverability on the job site.

After 2,993-man hours, the turbine was finally on its last five mile stretch of steep 8-11 percent graded route to the Jessup, PA power plant. Once at the final site, the Kenworth prime mover was removed and the Goldhofer ADDrive served as a self-propelled module to position the turbine under the hook on May 11, 2017.

**Much of the route was situated within the Adirondack Mountain range and steep grades and downhill slopes were numerous. Several turns consisted of rock walls on one side and no shoulder on the other.**





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# An arduous journey

ALE

TRUCKING MORE THAN 500,000 POUNDS

**C**overing almost 1,000 land and nautical river miles in Venezuela, United Kingdom-based ALE was tasked with transporting six 22 MW power plant engines from Puerto Ordaz to the Santa Ines Refinery in Barinas State, Venezuela. As the distance was so vast, and weighing a combined 1,891 tons, the project was split into three phases.

“The route was incredibly varied, involving different terrains and of varying infrastructure – water and land – and transportation through small towns as well as large, populated cities, and through rivers that had never been sailed on before. We had a very tight water window and had to transport all six engines at the same time. As a result, ALE needed to take the appropriate risk-mitigation strategies and safety measures,” said Javier Gutierrez, executive director, ALE. “Safety was key throughout the project, and the client was extremely satisfied, providing written support as well as a recognition award by the client.”

ALE’s team began the initial phase in December 2014 following the transatlantic navigation of the six engines from Italy and the trans-shipment to the barge, measuring up to 91 meters long, on the Orinoco River. The engines sailed on the barge from the reception point on the Orinoco River to temporary storage at the Alianza River Wharf in Puerto Ordaz.

ALE’s team needed to study and monitor the Orinoco River levels to estimate the necessary adjustments to be made to perform the load-in maneuvers in February 2015. Once loaded in, the engines were again stored temporarily while waiting for the Orinoco and Apure Rivers to reach their optimum levels of navigation. During this time ALE prepared for the next phase, the river transportation.

The Orinoco River changes water level



**Because of the logistical challenges involved in moving the six engines, coordination was key. ALE was constantly in communication with federal and local authorities.**



by 40 feet between the December-May dry season and the May-November wet season. The Apure River is only navigable in the months of July and August. To barge during the high-water levels, ALE had to wait until July. The second phase started in July 2015 and involved loading the six engines at Cabruta quay on the Orinoco River. ALE utilized 24 axle lines of SPMT to load the engines onto one 300 by 100 by 25 meter barge. Three pusher boats with low draft were deployed to help with barging 550 nautical miles along the Orinoco River.

## Never attempted before

One of the most challenging parts of the route involved passing underneath the Maria Nieves drawbridge serving San Fernando de Apure, located on the Venezuelan plains. An operation like this had never been attempted before by ALE, or anyone, and required an impressive logistics effort and a close coordination between local, regional and national institutions.

The bridge could only be passed underneath a few days a year because of the negative combination of air draft and water draft limitations. Then, a new central span removable bridge had to be performed, which took one year to design, build and install.

Eight months later, the three barges carrying the engines passed underneath of the new removed span bridge and the first convoy of engines arrived at the Puerto Nutrias Naval Base for temporary storage in Barinas. The final phase involved the inland transportation of the engines from

the storage location to the Santa Ines Refinery Development. The engines were loaded from the storage area onto a girder frame trailer, (fabricated by ALE), using a gantry system composed of one 500-ton SLS strand jack unit. The engines were then transported using 40 axle lines of conventional trailers with three prime movers.

During the 198-kilometer route, the convoy crossed bridges, travelled through small towns and Barinas city streets, before arriving at the refinery. It took six days for each engine to be transported between October and December 2016. The project finished in January 2017, with all installation and demobilization completed.

The cargo consisted of six dual system generation Wartsila engines that measured 14.258 meters by 5.324 meters by 6.016 meters and weighing 318 tons each. ALE transported the engines over 500 nautical miles and 200 kilometers.

ALE used a combination of SPMTs, power packs, conventional trailers and trucks, barges and low draft pusher boats, a gantry system composed of two 200-ton strand jack units, HLS2000, and a 500-metric ton capacity girder frame.

Considering the route, huge preparations were undertaken by ALE’s experienced team. Route studies resulted in dredging and reinforcing port slabs for receiving the engines. Some 15 bridges were reinforced. Most notable was the unprecedented pass under the Maria Nieves Bridge, the only lifting bridge system in Venezuela.

ALE estimated that the project required 30,000 man hours.



# Mating marvel

OXBO

MOVING WITH SPECIALIZED EQUIPMENT



**The full weight of the hull and the superstructure of the Suquamish ferry was 7,385,000 pounds.**

Seattle's *Suquamish* ferry was ceremoniously christened with champagne and Native American blessings in January 2018 by the Washington State Department of Transportation. But before its first official voyage, the new 144-car, 1,500-passenger capacity vessel had already experienced an arduous journey.

In August of 2017, OXBO Mega Transport Solutions performed an incredible scope of work that greatly expedited the building of the ferry. The hull of the vessel, built in Seattle, measured 322 feet 6 inches long, 82 feet wide and weighed 4,235,000 pounds. The upper superstructure, measuring 280 feet long, 80-feet wide and weighing 3,150,000 pounds, was built 30 miles away in Tacoma, WA.

OXBO's job was to safely provide a crew and equipment to move the hull onto a floating dry dock in Seattle, while simultaneously providing a second crew and equipment to load the superstructure onto a barge in Tacoma, according to Keith Settle, CEO. The barge with the superstructure would be transported overnight from Tacoma to Seattle. It would be put in a second dry dock and lifted out of the water. The two dry docks would be tied together and the superstructure rolled and installed onto the hull, mating into one vessel.

"The superstructure would be set on the hull within 1/32 of an inch," said Settle. "The time allotted was 72 hours to complete all three moves."

## Engineered support system

Designed to sit on top of the hull, the superstructure was built without a floor, making it extremely unstable once it was lifted off the foundation it was built on. The OXBO engineering team's solution was to place sections of gantry trusses and a network of cross beams on top of a 72-line Goldhofer PST-SLE. Once the support structure was erected, the trusses and beams were driven by the self-propelled Goldhofers under the superstructure. The cross beams were purposely left six inches short of being completely tight, leaving three inches on either side of the support structure to drive it into place. Once in place, custom shim packs provided a tight fit. Twelve 150-metric ton climbing jacks lifted the load an additional 12 inches to provide clearance of several obstacles on the barge.

Built in the World War II era, the old wooden dock was another challenge. After inspection, OXBO concluded there was one location where the pilings were adequate to hold the load. The 90-degree steering of the Goldhofers allowed the side shifting of the vessel onto a network of crane mats and steel beams placed over

the approved section of dock. This placed the Goldhofers near the edge of the dock and left the vessel cantilevered over the side of the dock over 25 feet. Once the side shift was completed the steering direction was shifted and the vessel was ready to roll onto the barge. Necessary ballasting offset a 10-foot tide change.

The barge loadout was completed in four hours. In another four hours, OXBO crews had lashed the superstructure and achieved the launch go-ahead from the marine warranty surveyor.

Meanwhile, in Seattle the second OXBO crew was working on the hull, which was built inside a building and would need to cross two 8-foot wide finger piers to get to the dry dock. The small width and tight space was overcome by using 48 dollies in two files that were hydraulically connected in three zones. Six of the dollies were self-propelled, allowing for remote control operation. The hull was loaded out in six hours.

Once the two pieces were in the same area, the two dry docks were placed end to end and ballasted to the correct height for the transfer of the load. An engineered ramping system connected the barge to the ferry hull. The superstructure was then unlashd from the barge.

The ballasting operation matched the speeds of the Goldhofers so the transfer of the superstructure over the hull took fewer than 90 minutes. The superstructure was set in its exact location within minutes of the plumb bob being set by the owner. Once in place, the shim packs were pulled from the steel beams and the support system was safely driven out from under the load and onto the barge in the same eight-hour shift.



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# Against all odds

The 2018 SC&RA Job of the Year competition featured some of the most intricate, complex and difficult jobs imaginable.

**W**atching the SC&RA Job of the Year competition is not for the faint of heart. The projects presented this year represent some of the most amazing feats of specialized lifting, rigging and hauling expertise ever accomplished.

Many of the projects were logistics nightmares, snarled in red tape and governmental regulations. Others involved “never done before” tasks. And all were achieved safely and without incident, although it’s likely there were a lot of “hold your breath” moments.

Following is our annual review of the jobs that didn’t get the trophies, all winners still. We will chronicle many of these jobs in Site Reports over the coming months in *American Cranes & Transport*.

## Rigging under \$150,000

■ **Emmert International** was awarded a contract to install five compressor modules at a liquid natural gas facility located in Freeport, TX. Each of the compressor modules weighed 265,000 pounds, had a length of 44 feet, a width of 13 feet and stood 22 feet high.



**Tradelossa** performed the lifting and skidding of two steam turbines, an outer casting of the turbine and a steam generator.



TNT Crane & Rigging replaced a crude unit heater for the Phillips 66 refinery in Ponca City, OK.

## Rigging \$150,000 to \$750,000

■ **Diversified Industrial Rigging** was asked to provide assistance with the removal and replacement of four induction draft fans at the Duke Energy facility in Belews Creek, NC. The basic scope required a fan – 30 feet long, 13 feet in diameter and 100,000 pounds – to be lifted approximately 2 feet, and moved horizontally 24 feet, all while dodging the structural steel supporting the duct system.

■ **Tradelossa** performed the lifting and skidding of two steam turbines, an outer casting of the turbine and a steam generator for the Combined Cycle Power Plant Empalme I. The job entailed multiple challenges, as it was performed in a reduced space and at an altitude of 49 feet above ground in extreme climate conditions.

■ **Barnhart** was contracted to remove and replace two feedwater heaters – the

heaviest weighing 120,000 pounds – as a subcontractor to Day & Zimmerman. Barnhart utilized gantries, power saddle rollers and a slide system to complete the project.

## Rigging \$750,000 to \$2 million

■ **Engineered Rigging** replaced two high-pressure feedwater heaters in a plant without incident in 12 days, five days ahead of schedule, as a subcontractor for Day & Zimmerman. The challenges associated with removing the original equipment were identified in the planning phase and mitigated using metrology, 3-D modeling and 4-D animation.

■ **Fagioli** completed the erection of a 2,500-ton capacity Goliath crane in Romania using SPMTs, strand jacking and a tower lift system. The comprehensive project involved a plethora of up-to-date





**Global Specialized Services transported a demethanizer tower from Pocatello, ID to Minco, OK.**

heavy transport and lifting equipment and deep engineering studies for disassembly and assembly operation of the different sections of the crane.

**Rigging over \$2 million**

■ **ALE** completed a lift and installation of FPSO modules using its giant AL.SK350 crane, as a subcontractor to EBR. ALE commenced the operations, performing the heavy lifting and installation of 31 modules onto the P-74 FPSO (floating production, storage and offloading) vessel in the south of Brazil.

■ Vigor Shipyards hired **OXBO Mega Transport Solutions** as a subcontractor for a project to engineer and execute a load-out plan for launching a 13,000-ton, 580-foot-long by 86-foot-wide by 96-foot tall vessel. OXBO engineered and executed a load-out plan using 164 lines of electronic-steered Goldhofers along with a skid carrying 7,000 tons of load.

■ **TNT Crane & Rigging** completed the crude unit heater replacement project – delivered and installed in six sections – for the Phillips 66 refinery in Ponca City, OK.

TNT provided in-plant heavy haul and crane support, which required a site survey and multiple job walks, but in the end, over 18,000 incident-free hours were logged and the job was completed on time.

**Trucking 160,000 to 500,000 pounds**

■ **Barnhart** hauled a pressure vessel from Houston, TX to Fort McKay in Alberta, Canada. The vessel measured 68.3 feet long by 15.3 feet tall by 16 feet wide and weighed 399,000 pounds. The 2,380-mile transport was completed using 18 lines of EasTrac trailer with Barnhart’s GS800 transport girders and three prime movers.

■ **Emmert International** transported a demethanizer column 800 miles from a fabrication facility in Northeast Texas to a refinery in Orla, TX. The column had a staggering overall length of 273 feet, a width of 18 feet, a height of 18 feet 3 inches and weighed in at 271,000 pounds net cargo weight.

■ **Global Specialized Services** transported a demethanizer tower from Pocatello, ID to Minco, OK using a Trail King 6-axle steerable dolly and a XL Specialized 3-axle jeep. The vessel measured 162 feet 10 inches long by 10 feet 6 inches wide and weighed 180,000 pounds. GSS developed custom-made saddles to clear the front of the neck on the jeep and to keep the vessel level. The route included 35 corners and roadways full of traffic.

■ **OXBO Mega Transport Solutions** responded to a tragic situation after an Amtrak Cascades passenger train derailed near Dupont, WA. To assist in clearing the scene littered with several wrecked train



**Engineered Rigging replaced two high-pressure feedwater heaters in 12 days.**

cars, OXBO transported the 270,000-pound locomotive that jumped the tracks and landed on Interstate 5, closing all three southbound lanes of the freeway. OXBO used its dual lane transporter to haul the locomotive ten miles to a military base where investigators would continue its investigation of the derailment.

**Trucking more than 500,000 pounds**

■ **Barnhart** hauled 80 pieces ranging from 3 metric tons to 290 metric tons from the Port of Long Beach to Weber Metals in Long Beach, CA to assemble one of the world’s largest forging presses. The components were hauled on a 15-mile route using Barnhart’s GS-800 Carrying System.

■ In a confusing situation due to inadequate infrastructure and a lot of governmental red tape, **Fagioli** executed a challenging heavy transport with loads exceeding 300 metric tons from the Turbigio to Cremona River Ports in Italy. The 140-kilometer haul was executed in eight nights (for each transport) with the installation of 19 overbridges and final river transport to the Chioggia Port for the loading onto a H/L dedicated ship of the two items.

**Moving with specialized equipment**

■ **Emmert International** moved a product purge bin and more than 8,000 freight tons of associated accessory cargos from Port of Point Comfort, TX to a plastics plant five miles away. The vessel had a transport length of 149 feet, width of 31 feet 1 inch and a height of 35 feet 1 inch and weight of 906,164 pounds.

**Emmert International transported a 273-foot demethanizer column 800 miles from a fabrication facility in Northeast Texas to a refinery in Orla, TX.**





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# Certification: a user guide

**T**he Program Development team at the National Commission for the Certification of Crane Operators (NCCCO) had a busy year in 2018, developing not only a new pair of CCO certifications for Drill Rig Operators but also another certification for the National Wireless Safety Alliance (NWSA). Working with subject matter experts from ADSC, the International Association of Foundation Drilling, the team helped launch separate certifications for Foundation Drill Rig operators and Anchor/Micropile Drill Rig operators. The new Drill Rig Operator certifications became available in December 2018.

## Telecom partnership

NCCCO first became involved with NWSA in 2015 when the budding wireless industry assessment and certification organization began offering the CCO Rigger and Signalperson certifications to its constituency. That partnership evolved in 2016 when NCCCO was contracted to develop a pair of certifications specifically for Telecommunications Tower Technicians (TTT-1 and TTT-2), which were launched in December 2016. Additionally, NCCCO administers all NWSA certifications. In 2018 NCCCO again worked with NWSA's wireless industry experts to develop new certifications for Tower Foremen and Antenna & Line Specialty, which became available in January 2019.

Further, 2018 saw increased attention for the other newest CCO certification, for Dedicated Pile Driver operators. The program was developed in conjunction with the Pile Driving

NCCCO provides an easy reference guide to its certification programs and identifies trends over the past year.



Contractors Association (PDCA) and was released in January 2017. Dedicated pile drivers are specifically identified by OSHA as one of the equipment types within the scope of the Cranes and Derricks in Construction rule.

This past year also witnessed the CCO Rigger and Signalperson programs invigorated by increased spending on infrastructure projects, and mandatory adoption by many oil industry companies in the wake of Hurricane Harvey. Also as a result of OSHA requirements, many commercial truck drivers are seeking CCO certification as riggers and signalpersons so that they can actively – and safely – participate in the delivery of materials at construction sites.

Another NCCCO initiative seeing continued growth in 2018 was the *Committed to Crane Safety* employer recognition program, which acknowledges the time, effort, and dedication to safety that employers demonstrate by certifying their crane operators, signalpersons, and riggers through NCCCO. More than 80 companies are currently listed in the CTCS directory on the NCCCO website ([www.nccco.org/ctcs-directory](http://www.nccco.org/ctcs-directory)).

## Career opportunities

Also, the Lift & Move USA program – organized by SC&RA, KHL, and NCCCO – has proven to be an outstandingly successful tool in attracting the attention

“ NCCCO worked with NWSA's experts to develop certifications for tower foreman. ”





**CCO Drill Rig Operator Certification is one of the latest programs offered by NCCCO.**



of teens and young adults to the many career options available in the crane and rigging industry. NCCCO testing data shows that nearly 30 percent of the new certifications earned in 2018 were obtained by operators 30 years old or younger. That represents thousands of new trained and qualified workers entering the crane and rigging workforce over the past year, which will go some way toward alleviating the skills gap brought on by retiring Baby Boomer operators.

NCCCO currently offers an industry-leading range of personnel certifications that address crane and crane-related operations. The organization's 28 certification designations across 12

categories provide the industry's most comprehensive portfolio of personnel certifications available. Accredited by ANSI to the international standard ISO 17024, they are officially recognized by federal OSHA as meeting or exceeding ANSI/ASME requirements, and are endorsed by all leading insurance providers and industry membership associations:

### Mobile crane operator program

NCCCO offers four categories of mobile crane operator certification. In addition to the core written exam, candidates are required to take one or more specialty examinations covering specific types of mobile cranes: lattice boom truck cranes (LBT), lattice boom crawler cranes (LBC), telescopic boom cranes—swing cab (TLL), and/or telescopic boom cranes—fixed cab (TSS). The practical examinations test real-world skills such as hoisting, booming, swinging, following hand signals, and combined function operations. Additional subcategories have been created for service truck cranes (STC) and boom trucks (BTF). [www.nccco.org/mco](http://www.nccco.org/mco)

### Tower crane operator program

Candidates must pass both written and practical exams to be CCO-certified tower crane operators (TWR). Candidates may take the practical exam on one of three types of tower cranes—hammerhead, luffing jib, or self-erecting—and must demonstrate skills such as trolley travel, hoisting, swinging, and combined function operations. [www.nccco.org/tco](http://www.nccco.org/tco)

### Overhead crane operator program

Candidates must pass both written and practical exams to become CCO-certified overhead crane operators (OVR). The overhead crane practical exam can be taken on either a cab-operated crane or a pendant/ remote control-operated crane and tests skills including trolley travel, hoisting, bridge travel, and combined-function operations. [www.nccco.org/oco](http://www.nccco.org/oco)

### Articulating crane operator program

This program addresses the specific knowledge and skills required to operate articulating boom cranes and articulating boom loaders. Three designations are

“ NCCCO offers an industry leading range of personnel certifications that address crane and rigging and crane-related operations. ”

available: articulating boom crane operator (ABC), articulating boom crane with winch operator (ABW), and articulating boom loader operator (ABL). Candidates choose among three written exams and two practical exams. The practical exam requires the operator to pick and place a test weight as directed, as well as move the crane through a zigzag corridor. [www.nccco.org/aco](http://www.nccco.org/aco)

### Digger derrick operator program

Digger derricks are unique pieces of equipment with their own capabilities and risks and, as such, a CCO certification program (DDO) addresses their specific characteristics. Candidates must pass both written and practical exams to be certified. The seven tasks that make up the practical examination are: pre-operational inspection, place chain in circle, follow hand signals, negotiate corridor with test weight, auger a hole, pick up a pole, and stow boom and shutdown procedures. [www.nccco.org/ddo](http://www.nccco.org/ddo)

### Dedicated pile driver operator program

The Dedicated Pile Driver Operator (DPD) certification program addresses the unique characteristics and operations of dedicated and purpose-built pile drivers. Candidates are required to pass both a written exam and a practical exam to obtain certification. The practical exam tasks include the lifting, maneuvering and setting down of a pile, as well as the demonstration of the actions and equipment settings necessary to begin the driving of a pile. [www.nccco.org/dpd](http://www.nccco.org/dpd)

### Drill rig operator program

The Drill Rig Operator (DRO) certification program, launched in 2018 in conjunction with ADSC—The

International Association of Foundation Drilling, consists of separate certifications for operators of Foundation Drill Rigs (FDR) and for Anchor/Micropile Drill Rigs (AMP). As with other CCO operator certifications, candidates are required to pass both a written exam and a practical exam to obtain either certification. Practical exam tasks include pre-operational inspection, safety protocols, pipe pick-up and placement, pipe laydown, drill steel placement, drilling holes, and safe travel. [www.nccco.org/dro](http://www.nccco.org/dro)

### Rigger program

Two certification levels are available: Rigger Level I (RIG-I) certification indicates that certified operators are considered qualified for most rigging work, while Rigger Level II (RIG-II) certification shows that they can rig non-routine jobs that require independent thinking without supervision. In addition to the multiple-choice written exams, candidates must also pass practical exams covering tasks such as pre-use rigging inspection, rigging hitches, rigging connections, and basic knots. [www.nccco.org/rig](http://www.nccco.org/rig)

### Signalperson program

In addition to being able to give accurate visible and audible signals, CCO-certified signalpersons (SGP) are required to have basic knowledge of crane operations and limitations, understand specific considerations concerning the construction site, and know applicable safety standards and regulations. CCO certification tests consist of a multiple-choice written exam and a computer-based practical exam. Signals for both mobile and tower cranes are tested. [www.nccco.org/sgp](http://www.nccco.org/sgp)

### Crane inspector program

The CCO crane inspector (CI) certification program is designed to bring the same safety, insurance, and risk reduction benefits common to NCCCO's

other certification programs. Through separate specialty exams, candidates may be certified to inspect mobile, tower, and/or overhead cranes to ensure they are properly maintained and safe for use. The practical exam uses high-resolution photographs to test candidates' inspection knowledge. Candidates must attest to and provide documentation of a minimum of five years' crane-related experience. [www.nccco.org/ci](http://www.nccco.org/ci)

### Washington crane certifier

Washington's Crane Certifier Program was developed by NCCCO under an agreement with the state's Department of Labor and state exams. Candidates must be able to demonstrate at least five years of crane-related experience, of which two years must be actual crane inspection activities. Accreditation as a Crane Certifier is available in

one or more of the following crane categories: Mobile Cranes, Tower Cranes, Articulating Cranes, and/or Overhead Cranes. [www.nccco.org/wcc](http://www.nccco.org/wcc)

### Lift director program

The CCO lift director (LD) certification is for those who have responsibilities for lift planning and supervision. Exams cover all disciplines required for safe planning and execution of simple and complex single- and multi-crane lifts. Separate certifications are available for mobile crane lift directors and tower crane lift directors. The lift scenario questions found on the lift director specialty exams evaluate a candidate's ability to comprehend the information presented and apply knowledge of lift planning and directing in circumstances that may be found in real-life situations. [www.nccco.org/ld](http://www.nccco.org/ld)

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**2017 witnessed an invigoration of CCO Rigger and Signalperson programs due in part to an increasing adoption by the petrochemical industry.**

“ NCCCO's 28 certifications are the industry's most comprehensive portfolio of personnel certifications. ”





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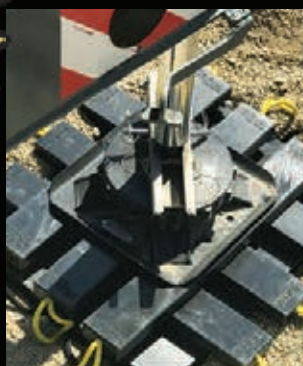
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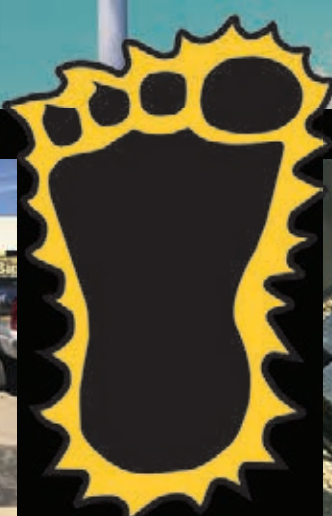
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# Essential elements

An employer's guide to OSHA's crane operator qualification requirements by type of crane.

**M**ost employers are likely familiar with the crane operator qualification requirements OSHA published in 2010. The latest Rule published in November 2018 modifies some of those. Here, NCCCO provides an overview of the essential elements.

## **WHAT DO I HAVE TO DO TO ENSURE MY OPERATORS ARE QUALIFIED?**

There are three (3) essential components to this process. You must ensure that each of your operators is trained, certified (or licensed), and evaluated.

### **Certification**

#### **WHAT IF I HAVE OPERATORS WHO ARE NOT YET CERTIFIED?**

They are classified as "operators-in-training" and can operate under supervision and with certain restrictions (see 1926.1427(b)(2) thru (4)).

#### **ARE ANY CRANES EXEMPT FROM THIS REQUIREMENT?**

Operators of derricks, sideboom cranes, or equipment with a maximum manufacturer-rated hoisting/lifting capacity of 2,000 pounds or less are not required to have certified operators. However, your responsibility to train still applies.

#### **WHAT IF I WORK AS A CONTRACTOR TO THE MILITARY?**

This Rule still applies to you. Military qualifications apply only to military employees, i.e. federal employees of the Department of Defense or Armed Forces.

#### **WHAT ABOUT MY OPERATORS WHO WORK IN STATES THAT REQUIRE A LICENSE? DO THEY HAVE TO BE CERTIFIED ALSO?**

The state license should suffice so long as the state program meets or exceeds OSHA's requirements; that is the licensing authority's responsibility. In any case, it's likely that your operators got NCCCO certification as a condition of obtaining their state license.

#### **WHO PAYS FOR THE CERTIFICATION AND OR LICENSE?**

You do, as the employer. It wasn't certain

in the 2010 Rule, but OSHA made that very clear in this latest Rule.

#### **CAN I GET CERTIFICATION FOR MY EMPLOYEES FROM ANYONE?**

No! The issuing entity (e.g., NCCCO) must be accredited by a nationally recognized accrediting agency (such as ANSI or NCCA) so as to be sure that industry-recognized criteria for written testing materials, practical examinations, test administration, grading, facilities/equipment, and personnel have been met.

#### **DOES CERTIFICATION HAVE TO BE ACCORDING TO THE CAPACITY OF THE CRANE OR JUST BY TYPE?**

Certification does not have to be by capacity. In fact, OSHA has stated that in all of its research it found no additional safety benefit for certifying by anything other than type of crane, and it would impose a huge financial burden on employers unnecessarily if the capacity of the crane were included.

#### **IS CERTIFICATION A ONE-TIME EVENT?**

No. OSHA requires that operators recertify every five (5) years. They recognize that "certification for life" would not allow for operators to be periodically tested to ensure they have retained essential safety knowledge and are up to speed with the latest regulatory and technical developments. In any case, accrediting bodies require certification organizations to have a recertification component to their programs.

#### **WHAT DO THE OPERATOR TESTS HAVE TO COVER?**

OSHA is pretty specific about that and has listed what it regards as essential knowledge and skills listed in paragraphs (j)(1) and (2) of 1926.1427.

#### **WHAT IF THERE IS NO CERTIFICATION AVAILABLE FOR A SPECIFIC TYPE OF CRANE?**

NCCCO has developed accredited certification programs for a wide variety of cranes, but it's simply not feasible to cover every single type. In those cases, OSHA has said that if no accredited testing agency offers certification for a particular type of equipment, an operator will be deemed to have complied with its certification requirements if the operator has been certified for the type of crane that is "most similar."

#### **HOW I DETERMINE WHAT TYPE OF CRANE IS "MOST SIMILAR"?**

As a service to industry, NCCCO last year assembled a group of crane industry experts to address this very issue. The Crane Type Advisory Group (CTAG), referenced by OSHA in the Preamble to the Final Rule, has made several determinations as to what type

**Under the new OSHA rule, crane operators have to be trained, certified and evaluated to be considered qualified.**



“ OSHA has removed capacity from the rule; certification only has to be by type of crane. ”





is “most similar” to cranes for which a certification is program is not available. A national database of these determinations will be published early in 2019. In the meantime, requests for determination can be sent to [cranetype@nccco.org](mailto:cranetype@nccco.org).

#### **DO I HAVE TO USE CERTIFICATION PROGRAMS DEVELOPED BY AN ACCREDITED CERTIFICATION ORGANIZATION OR CAN I DEVELOP MY OWN?**

You can develop your own program, but it must meet essentially the same development, management and test administration requirements of a certification program from a third-party organization. And it must be audited by someone who is certified to evaluate such programs by an accredited crane operator testing organization. The requirements are laid out in 1926.1427(e).

#### **WHAT IF I HAVE OPERATORS THAT DON'T UNDERSTAND ENGLISH?**

OSHA allows tests to be administered in any language the operator understands. However, it comes with conditions: The operator is only permitted to operate cranes equipped with operations manuals

and load charts that are written in the language of the certification (which must be stated on the certification card), and he/she must be able to effectively communicate with the signal person and lift director in the language used.

### **Evaluation**

#### **WHAT AM I REQUIRED TO DO UNDER OSHA'S NEW EVALUATION REQUIREMENT?**

The Rule states that, effective February 7, 2019, you must conduct an evaluation of each operator to ensure he/she is qualified by a demonstration of (i) the skills and knowledge necessary to operate the equipment safely, and (ii) the ability to recognize and avert risks associated with the operation.

#### **WHAT DOES OSHA MEAN BY “SKILLS AND KNOWLEDGE”?**

The skills and knowledge OSHA has identified include those specific to the safety devices, operational aids, and software the crane is equipped with. Most importantly, the evaluation must take into account the size and configuration of the crane he/she plans

“ Send inquiries about what certification is needed to [cranetype@nccco.org](mailto:cranetype@nccco.org). ”

to operate including (but not limited to) the crane's lifting capacity, boom length, any attachments (such as a luffing jib), and counterweight set-up.

#### **WHAT ELSE MUST THE EVALUATION CONSIST OF?**

The Evaluation must also cover the operator's ability to perform the hoisting activities required for the work he/she is assigned, including, if applicable, blind lifts, personnel hoisting, and multi-crane lifts.

#### **CAN I JUST NOT GO BY OSHA'S STANDARD DEFINITION OF A “QUALIFIED PERSON”?**

No. The Rule is very clear on this. OSHA states that the definition of “qualified” in §1926.32 does not apply here. In other words, possession of a certificate or degree cannot, by itself, qualify an operator to operate cranes.

#### **WHO CAN CONDUCT THE EVALUATIONS?**

They must be conducted by someone who has the “knowledge, training, and experience necessary” to assess equipment operators.

#### **CAN I DELEGATE THESE EVALUATIONS TO SOMEONE ELSE?**

The evaluator must be an employee of yours or be acting as your agent. If you do delegate the evaluations to an agent you are still responsible for ensuring they are done correctly.

#### **HOW SPECIFIC DO THE EVALUATIONS HAVE TO BE?**

Once you have successfully evaluated an operator for the necessary skills and knowledge for the size and configuration of crane he/she plans to operate, you may allow that operator to operate other equipment that you can demonstrate does not require substantially different skills, knowledge, or ability to recognize and avert risk to operate.

#### **DO I HAVE TO DOCUMENT THE EVALUATION?**

Yes. The documentation must be available at the worksite and must include: the name of the operator and the evaluator; the date of the evaluation; and the make, >36



model, and configuration of the crane used in the evaluation. The evaluator also has to sign it.

### **DO THE EVALUATIONS I HAVE ALREADY DONE COUNT?**

Yes, for operators employed prior to December 10, 2018, you may rely on your previous assessments in lieu of conducting a new evaluation of that operator's existing knowledge and skills. The documentation must note the date of the assessment and the make, model and configuration of the crane on which it was done.

### **HOW OFTEN DO I HAVE TO DO THESE EVALUATIONS?**

Re-evaluations are required whenever you provide retraining to an operator. And you must retrain an operator whenever you believe it's necessary based on an operator's performance or an evaluation of the operator's knowledge. The re-evaluation need only focus on the area(s) which the retraining covered.

## **Training**

### **WHAT TRAINING DOES OSHA REQUIRE ME TO DO?**

You must provide each operator-in-training with sufficient training, through a combination of formal and practical instruction, to ensure that the operator-in-training develops the skills, knowledge, and ability to recognize and avert risk necessary to operate the equipment safely for assigned work.

### **WHAT SPECIFICALLY MUST THAT TRAINING INCLUDE?**

OSHA is pretty specific about this. It lists the knowledge and skills it has identified as critical to safe crane operation in 1926.1427 (j)(1) and (2).

### **CAN OPERATORS-IN-TRAINING OPERATE CRANES EVEN IF THEY ARE NOT CERTIFIED?**

Yes, but they are restricted in what they can do, and they must be continuously monitored.

### **WHAT ARE SOME OF THE RESTRICTIONS ON WHAT AN OPERATOR-IN-TRAINING CAN DO?**

OSHA has identified five (5) circumstances in which operators-in-training who are not yet certified are not allowed to operate cranes:

- If any part of the crane, load line, or load (including rigging and lifting



**OSHA lays out specific details of what areas it expects employers to train their operators on and to be prepared to retrain (and re-evaluate) as necessary.**

accessories), if operated up to the crane's maximum working radius in the work zone could get within 20 feet of a power line that is up to 350 kV, or within 50 feet of a power line that is over 350 kV.

- Hoisting personnel.
- Multi-crane lifts.
- Over a shaft, cofferdam, or in a tank farm.
- Multiple-lift rigging operations (unless the operator's trainer determines that the operator-in-training's skills are sufficient).

### **WHO MONITORS THE OPERATORS-IN-TRAINING?**

The person who OSHA identifies as the "operator's trainer" is responsible for continuously monitoring the operator-in-training. He or she must be an employee or agent of the operator-in-training's employer, and must have the knowledge, training, and experience necessary to direct the operator-in-training on the equipment in use.

### **CAN THE PERSON MONITORING THE OPERATOR-IN-TRAINING DO OTHER THINGS WHILE SHE OR HE IS MONITORING?**

OSHA states that, while monitoring the operator-in-training, the operator's trainer must perform no task that detracts from the trainer's ability to monitor the operator-in-training. Moreover, the operator's trainer and the operator-in-training must be in direct

line of sight of each other, and they must be able to communicate verbally or by hand signals. For tower cranes, direct line of sight is not required.

### **WHAT DOES OSHA MEAN BY "CONTINUOUSLY" MONITORED?**

OSHA says that the operator-in-training must be monitored by the operator's trainer at all times. Short breaks are permitted, however, so long as (i) the break is no longer than 15 minutes and (ii) there is no more than one break per hour. Immediately prior to the break the operator's trainer must inform the operator-in-training of the specific tasks that he/she is to perform and the limitations to which he/she must adhere during the operator trainer's break. Of course, those tasks must be within the operator-in-training's abilities.

### **DO I HAVE TO RETRAIN?**

Absolutely. You must provide retraining in relevant topics for each operator when, based on the performance of the operator, or an evaluation of the operator's knowledge, there is an indication that retraining is necessary. ■

### **Disclaimer**

This information provided here is published as a public service by NCCCO. OSHA remains the sole authority for interpretations of federal labor standards and should be consulted accordingly.





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# 2019 PRODUCT CATALOG

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- Procedures and contacts
- Restricted or weekend travel
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If you are doing business in the specialized transportation industry, the Permit Manual is your #1 resource! You will receive a login and password once payment is processed. Only one simultaneous user allowed. Discounts for 5+ subscriptions.



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## EDUCATION/TRAINING

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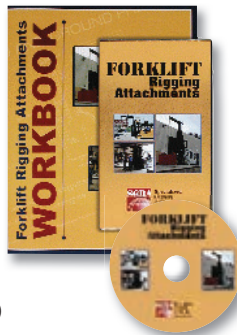
This 20-minute video and workbook covers the most common forklift attachments from booms, winches, and side shift carriages to personnel baskets and fork extensions.

**Item F8B (DVD & Workbook)**

**Retail \$119.00 Member \$89.00**

**Item F8W Additional Workbook**

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### SPECIALIZED TRANSPORTATION DRIVER TRAINING

This first of its kind video was created to address the needs of drivers who are both new to the specialized transportation industry and transporting oversize/overweight loads as well as a refresher for veteran drivers.

This video addresses driving skills like right turns and rail road crossings, as well as route planning, permits, and hazard identification. Additional topics include liability issues with OS/OW loads and advice for working with a team.

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This 20 minute video could help save lives! Used by the IUOE in their training program, this video provides a visual demonstration of safe operating procedures in accordance with the OSHA standard for mobile cranes near and around power lines to be used during training and the planning process. The accompanying book includes tables and prevention of encroachment.

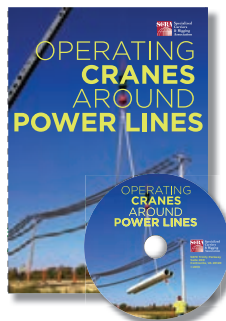
**Item PL\_SET (DVD & Book)**

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The Guide to Mobile Crane Safety Management is a comprehensive reference manual addressing four main areas of consideration when operating a crane or utilizing cranes on a jobsite including risk, lift classification, lift planning and jobsite issues. In addition to criteria for types of lifts, site factors, pertinent formulas, roles and responsibilities, equipment inspection criteria and safety factors, the manual includes over 18 useful charts, checklists and inspection lists. Please specify English, Spanish or Portuguese.

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## EDUCATION/TRAINING cont.

### GLOSSARY OF COMMON CRANE AND RIGGING TERMS

This handy pocket-sized tool contains concise definitions of 681 common terms used in the performance of duties related to crane and rigging work. The listings also refer users to related terms and other words with the same meaning. Available in English or Spanish.

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**Item CR5-S (Spanish)**

**1-15 copies: Retail \$14.95**  
**16-49 copies: Retail \$13.95**  
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### RECOMMENDED PRACTICES FOR TELESCOPIC HYDRAULIC GANTRY SYSTEMS

This video features equipment set-up, proper use and system maintenance. The accompanying 24-page manual covers five main areas:

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- Construction
- Inspection/load testing/maintenance
- Pre-lift planning
- Operations

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### GLOSSARY OF COMMON CRANE AND RIGGING TERMS

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**Item CR5 (English) Item CR5-S (Spanish)**

**1-15 copies: Retail \$14.95 Member \$12.95**

**16-49 copies: Retail \$13.95 Member \$11.95**

**50+ copies: Retail \$13.25 Member \$11.25**

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## FREE RESOURCES FOR SC&RA MEMBERS

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# MEMBER DIRECTORY

## DIRECTORY OF MEMBERS AND EQUIPMENT

This annual directory of members and equipment is the most complete and up-to-date reference source in the industry:

- U.S., Canada and world-wide listings of qualified member contractors, their capabilities and equipment;
- Fast referencing by alphabetical and geographical indexes;
- Allied products and service listings include everything from manufacturers, consultants, and spare parts, to insurance and publications.

### Item T7 (Print)

<b>1-5 copies</b>	<b>Retail \$115.00</b>	<b>Member \$50.00</b>
<b>6-10 copies</b>	<b>Retail \$115.00</b>	<b>Member \$45.00</b>
<b>11+ copies</b>	<b>Retail \$115.00</b>	<b>Member \$40.00</b>

### Item T7a (CD)

<b>Each</b>	<b>Retail \$499.00</b>	<b>Member \$145.00</b>
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Note: The Directory on CD does not include e-mails.



# UNION AGREEMENTS

## UNION AGREEMENTS

SC&RA offers its members the opportunity to partner with unions through agreements that increase competitiveness and market share of signatory employers and work opportunities for union members. The agreements cover key provisions and have been used successfully throughout the industry for decades. For more information, contact Beth O'Quinn, boquinn@scranet.org.

### INTERNATIONAL ASSOCIATION OF BRIDGE, STRUCTURAL, ORNAMENTAL AND REINFORCING IRON WORKERS

**NCEFR—National Agreement for Remodeling, Repair, Replacement, Renovation & Maintenance Work**

To read the full agreement, visit [www.scranet.org/NCEFR](http://www.scranet.org/NCEFR)



### UNITED BROTHERHOOD OF CARPENTERS AND JOINERS OF AMERICA MWA Agreement – Association of Millwright Contractors

To read the full agreement, visit [www.scranet.org/MWA](http://www.scranet.org/MWA)



### INTERNATIONAL UNION OF OPERATING ENGINEERS Operating Engineers Agreement

To read the full agreement, visit [www.scranet.org/oea](http://www.scranet.org/oea)



### MWA-M Agreement for the Performance of Repair, Replacement, Maintenance & Renovation Work – Association of Millwright Contractors

To read the full agreement, visit [www.scranet.org/MWAM](http://www.scranet.org/MWAM)



**TO ORDER PLEASE VISIT: [www.scranet.org/store](http://www.scranet.org/store)**

## INSPECTION FORMS/CHECKLISTS

### ASSEMBLY/DISASSEMBLY CHECKLISTS

#### Mobile Crane Pre-Job Safety Meeting Checklist

This checklist provides more than 45 items that should be reviewed before beginning onsite work. Categories include hazard assessment, power line safety, qualified workers, and crane configuration.

*(25 forms per pad. Includes a carbon copy. Size is 8.5X14)*

**Item S20      Retail \$17.00      Member \$12.00**



#### Tower Crane Pre-Delivery Inspection Checklist

This checklist provides more than 220 items that should be reviewed prior to shipping a tower crane to a job site. Categories include internal climber, trolleys, outriggers jib, base, tower, turntable and boom hoist. *(25 forms per pad. Includes a carbon copy. Size is 8.5X14)*

**Item S21      Retail \$17.00      Member \$12.00**



### CRANE SAFETY INSPECTION FORM (DAILY/MONTHLY)

Ensure your mobile cranes are inspected properly by using this comprehensive inspection form. This form contains over 100 daily and monthly inspection criteria to help keep your cranes in good working condition. *(Pad of 50).*

**Item S1    1-9 pads:    Retail \$12.00    Member \$8.00**  
**10+ pads:    Retail \$10.00    Member \$7.50**



### LATTICE BOOM CRANE ANNUAL INSPECTION CHECKLIST

Safety is a daily concern, but annually a more thorough inspection is required. This includes more than 180 items to be inspected. In addition to a section for wire rope there is a chart for recording a load test as well as a deficiency report.

**Item S17    1 set of 10:    Retail \$17.00    Member \$12.00**



### TELESCOPING BOOM CRANE ANNUAL INSPECTION CHECKLIST

This checklist provides your inspectors a list of more than 165 items to inspect including hoists, hydraulics, boom and outriggers. Also included is a chart to record load test and a deficiency recommendation report.

**Item S18    1 set of 10:    Retail \$17.00    Member \$12.00**



## SIGNS/DECALS

### DIRECTORY OF MEMBERS AND EQUIPMENT

This annual directory of members and equipment is the most complete and up-to-date reference source in the industry:

- U.S., Canada and world-wide listings of qualified member contractors, their capabilities and equipment;
- Fast referencing by alphabetical and geographical indexes;
- Allied products and service listings include everything from manufacturers, consultants, and spare parts, to insurance and publications.

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**Item T7a (CD)**

**Each**

**Retail \$499.00**

**Member \$145.00**

*Note: The Directory on CD does not include e-mails.*







## PERMIT MANUAL

	ITEM	RETAIL	MEMBER
State & Province Oversize/Overweight Permit Manual (Digital Subscription)	T1	\$300.00	\$160.00

## EDUCATION/TRAINING

	ITEM	RETAIL	MEMBER
Forklift Rigging Attachments (DVD+Book set)	F8B	\$119.00	\$89.00
Forklift Rigging Attachments (Book only)	F8W	\$39.00	\$29.00
Glossary of Common Crane and Rigging Terms	CR5	\$14.95	\$12.95
Glossary of Common Crane and Rigging Terms (Spanish)	CR5-S	\$14.95	\$12.95
Moving the World-DVD	SCRFD	\$29.00	\$29.00
Operating Cranes Around Powerlines (Set-DVD and Booklet)	PL-SET	\$499.00	\$359.00
Operating Cranes Around Powerlines (Booklet Only)	PL_B	\$10.99	\$7.99
Recommended Practices for Telescopic Hydraulic Gantry (DVD+book)	HGD	\$129.00	\$99.00
Recommended Practices for Telescopic Hydraulic Gantry (Book Only)	HG	\$69.00	\$49.00
Safety Talks Manual	CR1	\$75.00	\$55.00
Specialized Transportation Driver Training DVD	S16D	\$195.00	\$150.00
Specialized Transportation Load Securement DVD	S16B	\$195.00	\$150.00
The Guide to Mobile Crane Safety Management (English/Spanish/Portuguese)	CR3	\$199.00	\$99.00

## MEMBER DIRECTORY

	ITEM	RETAIL	MEMBER
Directory of Members and Equipment (Print)	T7	\$115.00	\$50.00
Directory of Members and Equipment (CD-electronic)	T7A	\$499.00	\$145.00

## UNION AGREEMENTS

	MEMBER
International Association of Bridge, Structural, Ornamental and Reinforcing Iron Workers	See Agreement
International Union of Operating Engineers	See Agreement
United Brotherhood of Carpenters and Joiners of America	See Agreements

## INSPECTION FORMS/CHECKLISTS

	ITEM	RETAIL	MEMBER
Mobile Crane Pre-Job Safety Meeting Checklist (Pad of 25)	S20	\$17.00	\$12.00
Tower Crane Pre-Delivery Inspection Checklist (Pad of 25)	S21	\$17.00	\$12.00
Crane Safety Inspection Form (Daily/Monthly) (Pad of 50)	S1	\$12.00	\$8.00
Lattice Boom Crane Annual Inspection Checklist (Set of 10)	S17	\$17.00	\$12.00
Telescoping Boom Crane Annual Inspection Checklist (Set of 10)	S18	\$17.00	\$12.00

## SIGNS/DECALS

	ITEM	RETAIL	MEMBER
Crane Safety Inspection Form (Daily/Monthly)	S1	\$12.00	\$8.00
Death Overhead Decal	S8	\$4.00	\$3.00
SC&RA Member Decals (3" x 3")	G3	n/a	\$2.00
SC&RA Member Decals (9" x 11")	G4	n/a	\$3.00

## TRANSLATED PRODUCTS

	ITEM	RETAIL	MEMBER
Crane Hand Signal Poster Decal (11" x 16")	S13	\$5.50	\$4.50
Crane Hand Signal Pocket Guide	S14	\$26.00	\$16.00
Crane Hand Signals Mobile App			
Glossary of Common Crane and Rigging Terms	CR5	\$14.95	\$12.95
The Guide to Mobile Crane Safety Management (English/Spanish/Portuguese)	CR3	\$199.00	\$99.00

**TO ORDER PLEASE VISIT: [www.scranet.org/store](http://www.scranet.org/store)**

# Becoming less risky

Bill Smith addresses four simple ways to become a better risk.

**W**hen it comes to controlling how much your insurance policy costs year over year, there are some things you can control and some things you can't. Market trends, nuclear verdicts, investment returns – they're all factors that every insurance buyer is subject to; therefore, there isn't much you can do to change their impact. However, it's not all out of your control. There are always at least four areas where you can make small changes that can have a big impact on your business – and make you a better risk.

## 1. Contracts

Every business in the construction industry can succeed or fail based almost solely on its contract. Negotiating contract language can be a long and difficult process, but it's ultimately one of the most important things you can do before commencing work on a jobsite. At NBIS, we believe a good contract or job ticket should contain the following key provisions.

### INDEMNIFICATION OR PARTIAL INDEMNIFICATION:

Indemnity is a promise – a promise to pay for possible damage, loss or injury. Insisting that the language reads in such a way that your company only has to respond to losses that result from your own negligent operation is one way to ensure you've got a fighting chance in court.

**INSURANCE:** An insurance provision in your agreement is the easiest way to shield your company from paying for claims that you do not owe. This provision specifies exactly what limits of coverage your customer needs to provide, the financial rating required of its insurance company (usually an A.M. Best Company rating) and in what circumstances your customer's insurance policy will extend

coverage to you as an "additional insured."

**OPERATION OF EQUIPMENT PROVISION:** This is very important because it provides a strong "borrowed servant" argument for the actions taken by your operator. In a successful borrowed servant situation, you increase your chance of being protected from any action brought against you by your customer's employee, should they be hurt. Additionally, incorporating certain industry safety standards ties the parties in your agreement to the stipulations and responsibilities required under the ANSI-approved standards.

**GROUND CONDITIONS:** One of the responsibilities assigned in this provision is that for ground conditions and ground stability. Oftentimes, your operator will not be knowledgeable about the ground conditions where the crane will be operating, especially if this is the first day on a jobsite. In construction, OSHA requires the Controlling Entity to be responsible for assuring the ground conditions are adequate. Having certain language in your contract/job ticket also helps put your company in a better position to defend against unknown hazards.

**POWER LINES:** Our recommended provision states that it is the responsibility of the customer/lessee of the equipment to keep the crane away from power line hazards, and to get the power lines de-energized if the crane will be working around them.

## 2. Preventative risk management and training

One of the most important things to remember when it comes to risk management and training is that efforts need to be ongoing. Each member of your team should be constantly thinking about risk and how their actions play a role as either proactive or reactive. If you're a company owner, you should be looking at your team and asking:

- Drivers – Are they all up to date on: CDL licensing, training, DQ files and hours of service logs?

- Crane operators – How recent are: certifications, training, new technology (LMI)
- Risk manager – Is she focusing on: safety plans, safety meetings, accident/injury prevention checklists, inspection and maintenance records, and technology?

Also, when planning routes for each job – whether hauling a trailer or a mobile crane – you should ask: Will there be an inspection along the way? Is there a CVSA check point? Do I cross state lines where a permit change will force my equipment to find suitable parking for an oversized load?

Many of the most common citations can also be avoided when drivers are properly trained and understand the current rules and regulations – which is exactly why NBIS developed the proactive Online Driver Training Program. The curriculum for this unique program was developed after understanding the most notorious transportation accident-causation factors. Each course takes around 15 minutes to complete and concludes with a test. And best of all, the program is defensible in court in any situation where a claim arises.

## 3. Claims response

Understanding how you're going to respond to an insurance claim scenario before that scenario occurs is a practice that is sure to pay dividends when the unexpected occurs. To help ensure a successful start to your claims investigation, NBIS has developed four levels of accident investigation for first responders – something every policyholder should keep at the forefront of his or her mind when a loss or claim occurs:

- LEVEL 1:** First response – implemented by policyholder.
- LEVEL 2:** Tactical response – implemented by specialized claims investigator (insurance company specialist or other designated specialist).
- LEVEL 3:** Forensic response – implemented by qualified expert witness.



### THE AUTHOR

**Bill Smith** is executive vice president of claims and risk management for NBIS.



“ Negotiating contract language can be a long and difficult process, but it’s ultimately one of the most important things you can do before commencing work on a jobsite. ”

**LEVEL 4:** Legal response – implemented by defense or oversight attorney.

If the claims event is severe enough, each level of accident investigation will be implemented in one seamless response. In other occasions, these steps may develop systematically.

In almost every scenario, though, it’s important to remember that it’s typically the insured policyholder who is the first responder.

Being the first responder to a claims event carries with it a great deal of responsibility. It’s important for policyholders to develop a Jobsite Accident Response Plan prior to the claim event, so that critical information can be gathered in a calm and systematic way. Severity claims response is most effective when it utilizes a pre-planned approach. While safety and accident

prevention are the core focus of the plan, a good response plan contemplates multiple scenarios with two key objectives in mind: preserve evidence and “set the table” for the investigative team.

**4. New technology and services**

Over the years, we have seen a number of advancements in technology, from computers in cranes (LMIs) to data recorders (black box) in vehicles. The information contained in these devices is ever evolving – and also discoverable. Recently, NBIS has developed several relationships with companies that offer cameras outside the cab and down the truck to record incidents and help determine liability (passive management). Additionally, we have a program that takes the data in the recorder and uses it to understand driver behavior so you

can coach your drivers to avoid bad driving habits leading up to an accident (preventive management). We also partner with a product that alerts the driver if they drift the lane or follow too close to the vehicle in front (preventive management).

In conclusion, while many of the factors that go into pricing an insurance policy are indeed outside the realm of control of the policyholder, making sure your contracts, risk management and training initiatives, available technology that aids you in managing risk and claims response plans are in order are four areas where you can make immediate improvements, and help ensure you enjoy favorable pricing.

For assistance with any of the items discussed, or to see how NBIS can help you with any other risk management initiatives, contact us today. ■



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# Moving up!

American Cranes & Transport presents its 13th annual **ACT100** Index of North America's top crane-owning companies.

BY THE NUMBERS	<b>EMPLOYEES</b>	31,907
	<b>BRANCHES</b>	738
	<b>MOBILE CRANES</b>	15,944
	<b>CRAWLER CRANES</b>	3,113
	<b>TOTAL CAPACITY</b>	2,495,860 tons
	<b>AREAS OF OPERATION:</b>	
	<b>REGIONAL</b>	52
<b>NATIONAL</b>	34	
<b>WORLDWIDE</b>	17	
<b>NEWCOMERS TO THE LIST</b>	13	

PHOTO: © ROBERT DIMMITT PHOTOGRAPHY

The 2018 **ACT100** Index weighed in at almost 2.5 million tons with 13 new companies.

For the most part, North America's top crane-owning companies have expanded their fleets over the past year. Our 2018 **ACT100** shows growth in every category that we rank.

First off, the **ACT100** index grew this year to 2,495,860, up from 2,365,977 US tons in 2017. Since 2016, the **ACT100** index has grown by 326,763 US tons. We believe this growth can be attributed to the addition of several new, higher capacity cranes and by a few larger-scale companies joining the list.

While the growth we are seeing is good news, the market is not at full tilt by any means. The growth in many of the categories was quite modest.

This year the number of branches grew from 697 last year to 738 this year, a much healthier gain than we saw from 2016 to

2017. Branch growth last year was up by three while this year there are 41 more branches.

Employee counts are back on the rise with the **ACT100** employing 31,907 workers as compared to 29,287 in 2017. This was a healthy gain as compared to employee losses last year. Still, the **ACT100** has not reached the peak we saw in 2015 of 37,040 workers. The **ACT100** has lost 5,133 jobs since 2015.

In 2018 our **ACT100** shows 3,113 crawler cranes as compared to 2,935 in 2017, a net gain of 178 units. Last year this category was down by 111 units over 2016. This year there were 15,944 mobile cranes on the **ACT100** as compared to 15,579 units in 2017. Last year 666 mobile cranes were added to the market. This year there

## ACT100 2019

Submit information for the 2019 **ACT100** by emailing: [d.annshiffler@khl.com](mailto:d.annshiffler@khl.com)

RANK 2018	RANK 2017	COMPANY NAME	HQ	BRANCHES	EMPLOYEES	SCOPE OF OPERATION	SENIOR CONTACT & TITLE
1	1	<b>Maxim Crane Works</b>	USA	52	3,500	Worldwide	Bryan Carlisle, CEO
2	2	<b>ALL Family of Companies (ALL Erection &amp; Crane Rental)</b>	USA	38	1,608	National	Michael L. Liptak, President
3	4	<b>Bigge Crane and Rigging Company</b>	USA	17	956	National	Weston Settlemier, President/CEO
4	3	<b>Lampson International</b>	USA	8	300	Worldwide	William Lampson, President
5	5	<b>Mammoet Americas</b>	USA/Canada	23	1,400	Worldwide	Paul van Gelder, CEO
6	6	<b>TNT Crane &amp; Rigging</b>	USA	42	1,500	National	Mike Appling, CEO
7	7	<b>Barnhart Crane &amp; Rigging</b>	USA	45	1,350	National	Alan Barnhart, CEO
8	8	<b>Buckner HeavyLift Cranes</b>	USA	4	225	Worldwide	Doug Williams, CEO
9	10	<b>W.O. Grubb Inc.</b>	USA	15	455	National	William O. Grubb, President
10	12	<b>Deep South Crane &amp; Rigging</b>	USA	8	625	Worldwide	Mitch Landry, President
11	9	<b>NCSG Crane and Heavy Haul</b>	Canada	26	1,000	National	Ted Redmond, President/CEO
12	NEW	<b>Sterling Crane</b>	Canada	35	1,500	Worldwide	Scott Fuller, Vice President
13	13	<b>J.F. Lomma Inc.</b>	USA	8	185	Worldwide	James Lomma, President
14	14	<b>Bragg Crane Service</b>	USA	13	650	National	Mike Roy, Executive Vice President
15	15	<b>Guay Inc.</b>	Canada	20	500	National	Jean-Marc Baronet, President
16	18	<b>ML Holdings Company Crane Group</b>	USA	23	543	National	Scott Wilson, President
17	17	<b>Sterett Crane &amp; Rigging</b>	USA	8	120	National	Jonathan Spong, President
18	21	<b>Beyel Brothers Inc.</b>	USA	8	362	Regional	Joseph D. Beyel, President
19	19	<b>Scott-Macon Equipment</b>	USA	9	200	Worldwide	Robert B. Dimmitt, Executive Vice President
20	20	<b>Marco Crane &amp; Rigging</b>	USA	6	204	National	Dan Mardian, Jr., President
21	22	<b>Imperial Crane Services</b>	USA	5	250	Worldwide	B.J. Bohne, President/CEO
22	26	<b>Stevenson Crane Service</b>	USA	4	198	Worldwide	Donna Stevenson, President
23	24	<b>Mountain Crane Service</b>	USA	5	197	National	Paul Belcher, Owner
24	25	<b>H&amp;E Equipment Services</b>	USA	31	2,300	National	Cary Burr, Senior Vice President of Cranes
25	11	<b>Entrec Corporation</b>	Canada	13	550	National	John Stevens, President/CEO
=26	NEW	<b>B&amp;G Crane Service</b>	USA	4	400	Regional	Alex Harrell, Business Development Manager
=26	27	<b>Utility One Source*</b>	USA	26	1,000	National	Fred Ross, President
27	30	<b>Dozier Crane &amp; Machinery</b>	USA	3	35	Worldwide	Dozier Cook, Owner
28	29	<b>NessCampbell Crane + Rigging</b>	USA	8	250	Regional	John Anderson, President
29	31	<b>Kelley Equipment of Florida</b>	USA	3	160	Regional	Daniel H. Gold, CEO
30	34	<b>Northwest Crane Service</b>	USA	8	125	National	Andy Hodges, President
31	NEW	<b>Joyce Crane</b>	USA	6	165	Regional	Joe Bob Joyce, President
32	35	<b>Circle 8 Crane Services</b>	USA	6	255	Regional	Bryan Ericson, President
33	32	<b>Irving Equipment</b>	Canada	8	150	National	David Irving, General Manager
34	NEW	<b>Laramie Equipment</b>	USA	2	65	Worldwide	Jeff Laramie, Vice President
35	44	<b>Fagioli Inc. (USA)</b>	USA	4	124	Worldwide	Edoardo Ascione, President
36	33	<b>Barcelona Equipment</b>	USA	1	60	Regional	Bob Steiner, President
37	42	<b>Big B Crane</b>	USA	2	107	Regional	Daniel Basden, President
38	51	<b>Crane Works Inc.</b>	USA	9	150	National	Keith Ayers, CEO
39	36	<b>Southwest Industrial Rigging</b>	USA	4	172	National	Mike Madge, Vice President
40	38	<b>Dielco Crane Service</b>	USA	1	90	Regional	David Dieleman, President
41	37	<b>Digging and Rigging</b>	USA	6	223	Regional	James Gregory, Sr., President
42	41	<b>Capital City Group</b>	USA	6	160	Regional	Brian Gibson, President/CEO
43	NEW	<b>Exact Crane and Equipment</b>	USA	1	17	Worldwide	Jack Swan, President
44	39	<b>Wagstaff Crane Service</b>	USA	3	89	Regional	Jim Wagstaff, President

EDITOR'S NOTE: Every attempt was made to assure the information in the **ACT100** is correct and accurate. The editors of **ACT** and employees of KHL Group Americas do not assume responsibility for errors, omissions or erroneous information.

Turning data into useful information.

# iCraneTrax.

Business Management  
Equipment Management  
Job Tracking  
Reporting Tools





WEBSITE	MOBILE CRANES	CRAWLER CRANES	LARGEST CRANE	CAPACITY	ACT INDEX
cranerental.com	2,650	495	Manitowoc 31000	2,535	<b>693,464</b>
allcrane.com	1,964	359	Manitowoc 21000	1,000	<b>169,700</b>
bigge.com	866	216	Liebherr LR 1750/2	827	<b>165,885</b>
lampsoncrane.com	69	389	Lampson Transi-Lift LTL-3000	3,000	<b>125,615</b>
mammoet.com	528	136	Mammoet PTC 200	5,000	<b>99,689</b>
tntcrane.com	587	49	Liebherr LTM 1750-9.1	900	<b>82,391</b>
barnhartcrane.com	437	33	Terex-Demag CC4000 RL	1,760	<b>66,738</b>
bucknercompanies.com	12	145	Liebherr LR 11350-P	2,000	<b>66,474</b>
wogrubb.com	278	79	Liebherr LR 1750/2	825	<b>56,699</b>
deepsouthcrane.com	246	24	TC-36000 VersaCrane	2,500	<b>55,591</b>
ncsg.com	322	41	Liebherr LTM 11200-9.1	1,440	<b>53,500</b>
sterlingcrane.com	850	150	Demag CC8800	1,375	<b>50,000</b>
jflommainc.com	158	92	Manitowoc 18000 w/Maxer	826	<b>43,238</b>
braggcrane.com	334	32	Liebherr LR 1750/2	825	<b>42,804</b>
gruesguay.com	429	23	Liebherr LTM 11200-9.1	1,500	<b>38,066</b>
mlholdingscranegroup.com	254	26	Liebherr LTM 1500	625	<b>35,631</b>
sterettcrane.com	148	41	Terex CC2800-1	660	<b>28,870</b>
beyel.com	146	47	Terex Demag AC650	750	<b>26,754</b>
smequipment.com	453	58	Terex AC140	170	<b>25,608</b>
marcocrane.com	195	24	Grove GMK 7550 w/Megawing	550	<b>22,714</b>
imperialcrane.com	193	35	Liebherr LTM 1500	600	<b>19,000</b>
stevensoncrane.com	151	26	Manitowoc 18000 w/Maxer	826	<b>17,898</b>
mountaincrane.com	82	23	Liebherr LTM 1750-9.1	900	<b>17,580</b>
he-equipment.com	265	0	Grove RT 9150	150	<b>17,500</b>
entrec.com	161	20	Liebherr LR 1750	826	<b>16,893</b>
bgcrane.com	50	10	Manitowoc 18000	825	<b>15,000</b>
customtruck.com	282	25	Terex AC250	250	<b>15,000</b>
doziercrane.com	76	50	Liebherr LTM 1400-7.1	500	<b>13,893</b>
nesscampbell.com	90	3	Liebherr 1500-8.1	600	<b>13,668</b>
kelleyequipment.com	53	32	Terex Demag AC500-2	600	<b>13,250</b>
northwestcraneservice.com	32	4	Liebherr LR 11000	1,200	<b>13,220</b>
joycecrane.com	88	1	Liebherr LTM 1750-9.1	900	<b>12,733</b>
circle8services.com	80	0	Grove GMK 7550	550	<b>12,200</b>
irvingequipment.com	81	20	Liebherr LR 1750	827	<b>12,199</b>
laramiecrane.com	53	31	Demag AC 1200	500	<b>12,152</b>
fagioli.com	12	14	Liebherr LR 11350	1,500	<b>11,248</b>
barcelonacrane.com	51	40	Tadano ATF 400G-6	450	<b>11,237</b>
bigbcrane.com	38	42	Manitowoc MLC 300	386	<b>11,111</b>
crane-works.com	432	0	Demag AC220-5	245	<b>11,063</b>
swirusa.com	90	9	Grove GMK 7550	550	<b>10,581</b>
dielcocrane.com	63	15	Liebherr LR 1600/2	660	<b>10,405</b>
digrig.com	84	1	Liebherr LTM 1750-9.1	900	<b>10,305</b>
ccgroup-inc.com	94	19	Grove GMK 7550	550	<b>10,245</b>
exactcrane.com	120	20	Manitowoc 16000	440	<b>10,000</b>
wagstaffcrane.com	69	2	Liebherr LTM 1750-9.1	900	<b>9,512</b>

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RANK 2018	RANK 2017	COMPANY NAME	HQ	BRANCHES	EMPLOYEES	SCOPE OF OPERATION	SENIOR CONTACT & TITLE
45	40	<b>Transportes y Gruas. Auriga SA de C.V</b>	Mexico	5	200	National	Jose Cano Perez
46	43	<b>Vic's Crane &amp; Heavy Haul Inc.</b>	USA	4	200	Regional	Josh Horsch, Vice President
47	47	<b>Edwards Inc.</b>	USA	5	452	Regional	Jamie Ezzell, Crane Division Manager
48	45	<b>CraneWorks Inc.</b>	USA	3	145	Regional	David Upton, Owner
49	46	<b>R.H. Marlin Inc.</b>	USA	1	70	Regional	Joe Fox, Vice President
50	NEW	<b>Boss Crane &amp; Rigging</b>	USA	4	158	National	David Cowley, President
51	48	<b>Burkhalter Rigging</b>	USA	5	150	Worldwide	Delynn Burkhalter, CEO
52	50	<b>Erickson's</b>	USA	4	65	Regional	Steve Erickson, President
53	54	<b>Ideal Crane Rental</b>	USA	6	95	Regional	Robert Kalhagen, President
54	52	<b>Thackray Crane Rental</b>	USA	5	135	Regional	Mark Thackray, Operations/Safety Director
55	64	<b>Kirby-Smith Machinery</b>	USA	10	450	National	Rickey Bailey, Vice President Crane Division
56	53	<b>Clark Rigging &amp; Rental Corp.</b>	USA	3	50	National	David F. Clark, President
57	55	<b>Giuffre Bros. Cranes</b>	USA	4	36	Worldwide	
58	59	<b>Viant Crane</b>	USA	2	20	Regional	David M. Lemke, President/COO
59	NEW	<b>Allison Crane &amp; Rigging</b>	USA	4	200	National	Larry Allison Jr., President
60	58	<b>Budrovich Contracting</b>	USA	3	100	Regional	Eric Struckhoff, Vice President
61	61	<b>J J Curran Crane</b>	USA	1	44	Regional	Larry Curran, President
62	56	<b>Blue Hat Crane</b>	USA	5	45	National	David Lapin, Senior Mobile Crane Rental
63	60	<b>Hill Crane Service</b>	USA	2	85	Regional	Ronald Hill, Vice President
64	66	<b>Axis Crane</b>	USA	3	110	Regional	Alex Clark, Senior Vice President
65	63	<b>Alamo Crane Service</b>	USA	2	74	National	Marvin Ohlenbusch, COO
66	67	<b>Crane Service Company</b>	USA	5	137	Regional	Brian Mazzella, Vice President
67	65	<b>Connelly Crane Rental Corp.</b>	USA	3	65	National	Michael Connelly, President
68	57	<b>Wanzek Construction</b>	USA	2	650	National	Bryce Peterson, Director
69	62	<b>JPW Companies</b>	USA	1	100	National	Dave Schwalm, Executive Vice President
70	78	<b>Atlas Crane Service Inc.</b>	USA	3	42	Regional	Zach Prentis, President
71	69	<b>G.A. West &amp; Co.</b>	USA	4	1,100	National	Gary A. West, President
72	70	<b>AME Inc.</b>	USA	4	260	National	Jeff Campbell, President
73	72	<b>Landwehr Construction</b>	USA	2	200	National	Pat Herron, Crane Manager
=74	71	<b>Alliance Riggers &amp; Constructors*</b>	USA	1	50	Regional	Phillip Cordova, General Manager
=74	71	<b>LaGrange Crane Service</b>	USA	1	32	Regional	Judith Mooncotch, President
75	73	<b>McRay Crane &amp; Rigging</b>	USA	1	58	Regional	Calvin Jones, Executive Director
76	NEW	<b>General Steel Crane &amp; Rigging</b>	USA	3	44	Regional	Jeff Noland, President
77	74	<b>A Quick Pick Crane Service</b>	USA	1	40	Regional	Scott Schrade, President
78	75	<b>I.B. Dickinson &amp; Sons</b>	USA	3	45	Regional	Donald Dickinson, President
79	76	<b>JK Crane</b>	USA	1	20	Regional	Jennifer Gabel, Owner
80	79	<b>Anglemyer Crane</b>	USA	1	36	Regional	John Anglemyer, Secretary/Treasurer
81	80	<b>Tim's Crane &amp; Rigging</b>	USA	1	28	Regional	Tim Marshlick, President/CEO
82	81	<b>Custom Service Crane</b>	USA	5	45	Regional	Randy Huffman, Vice President
83	83	<b>Crane Rental Company Inc.</b>	USA	1	63	Regional	Michael Scott, President
84	NEW	<b>Omega Morgan</b>	USA	3	250	Regional	Troy Tallent
85	NEW	<b>Selinsky Force</b>	USA	3	150	Regional	Jim Chapman, President/CEO
86	82	<b>Taylor Crane &amp; Rigging</b>	USA	2	77	National	Jim C. Taylor, Jr., President
87	90	<b>Industrial Truck &amp; Crane</b>	USA	1	21	Regional	Soni Graff, President
88	88	<b>Mansfield Crane Service Corp.</b>	USA	2	30	Regional	Trapper Wyman, Owner

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WEBSITE	MOBILE CRANES	CRAWLER CRANES	LARGEST CRANE	CAPACITY	ACT INDEX
auriga.mx	50	9	Manitowoc 18000	800	<b>9,000</b>
vicsco.com	65	6	Demag CC2800 w/superlift wagon	660	<b>8,538</b>
edwardsinc.com	92	1	Demag AC 500-2	600	<b>8,093</b>
craneworks.com	160	4	Liebherr LTM 1400-7.1	500	<b>7,995</b>
rhmarlin.com	72	13	Grove GMK 7550	550	<b>7,500</b>
bosscrane.com	20	16	Liebherr LTM 1750-9.1	900	<b>7,423</b>
burkhalter.net	20	17	Liebherr LR 1600/2	660	<b>7,250</b>
ericksonsgcr.com	23	9	Liebherr LTM 1750	827	<b>7,148</b>
idealcranerental.com	74	9	Grove GMK 6350	350	<b>6,858</b>
thackraycrane.com	133	7	Liebherr LTM 1400-7.1	500	<b>6,806</b>
kirby-smith.com	137	10	Manitowoc MLC300 S3	330	<b>6,796</b>
clarkrigging.com	62	4	Terex AC500-2	600	<b>6,348</b>
giuffre.com	218	0	Liebherr LTM 1090/2	110	<b>6,200</b>
viantcrane.com	35	10	Manitowoc MLC300 Series III	386	<b>5,704</b>
allisoncrane.com	34	4	Tadano ATF 400G-6	450	<b>5,600</b>
budrovich.com	60	5	Grove GMK 7550	550	<b>5,434</b>
jjcurran.com	58	0	Grove GMK 6400	450	<b>5,270</b>
bluehatcrane.com	38	12	Manitowoc 2250 Series III	300	<b>5,175</b>
hillcrane.com	42	0	Liebherr LTM 1400-7.1	500	<b>4,926</b>
axiscrane.com	23	5	Grove GMK 7550	550	<b>4,773</b>
alamocrane.com	39	0	Liebherr LTM 1500-7.1	600	<b>4,688</b>
craneserviceco.com	31	3	Liebherr LTM 1450-8.1	550	<b>4,604</b>
connellycrane.com	53	9	Liebherr LTM 1300-1	360	<b>4,472</b>
wanzek.com	14	9	Demag CC3800	715	<b>3,860</b>
jpwcompanies.com	30	7	Terex AC500-2	600	<b>3,840</b>
atlascraneserviceinc.com	31	0	Liebherr LTM 1450-8.1	550	<b>3,650</b>
gawest.com	22	10	Manitowoc 16000 with Maxer	440	<b>3,642</b>
ameonline.com	28	0	Grove GMK 7550	550	<b>3,375</b>
landwehrconstruction.com	19	3	Terex AC 350/6	400	<b>3,160</b>
allianceriggers.com	30	8	Liebherr LR1300	330	<b>3,000</b>
lagrangecrane.com	24	0	Grove GMK 7550	550	<b>3,000</b>
mcraycrane.com	18	0	Grove GMK 6300L	350	<b>2,795</b>
gen-steel.com	26	0	Grove GMK 6400	450	<b>2,568</b>
aquickpickcrane.com	27	2	Liebherr 1350 6.1	400	<b>2,495</b>
ibdickinson.com	20	0	Liebherr LTM 1400-7.1	500	<b>2,471</b>
jkcrane.com	17	2	Manitowoc GMK 7550	550	<b>2,385</b>
anglemyercrane.com	26	1	Grove GMK 6350	350	<b>2,340</b>
timsocrane.com	22	3	Terex AC250-1	300	<b>2,118</b>
customservicecrane.com	28	0	Grove GMK275	275	<b>2,095</b>
cranentalcompany.com	23	0	Liebherr LTM 1350-6.1	400	<b>2,045</b>
omegamorgan.com	12	0	Grove GMK7550	550	<b>2,020</b>
selinskyforce.com	32	1	Grove GMK 5275	275	<b>1,998</b>
taylorcrane.com	22	1	Liebherr LTM 1220-5.2	265	<b>1,874</b>
itccrane.com	18	0	Grove 6300L	350	<b>1,669</b>
mansfieldcrane.com	10	2	Grove GMK 6350L	350	<b>1,651</b>

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RANK 2018	RANK 2017	COMPANY NAME	HQ	BRANCHES	EMPLOYEES	SCOPE OF OPERATION	SENIOR CONTACT & TITLE
89	NEW	<b>Greiner Industries</b>	USA	3	285	Regional	Jason Brown, Crane Division Manager
90	84	<b>Rozell Industries</b>	USA	6	200	Regional	Gordon Nygaard, Manager
91	NEW	<b>Diamond Steel Construction</b>	USA	1	50	Regional	David L. Collins, President
92	85	<b>Benchley Contracting &amp; Rental Corp.</b>	USA	2	15	Regional	Brian Benchley, Vice President
93	86	<b>D.C. Crane Service</b>	USA	1	16	Regional	Daniel Connor, President
94	87	<b>Jcrane Inc.</b>	USA	1	25	Regional	Jack Stull, President
95	NEW	<b>Modern Construction/ Modern Crane &amp; Rigging</b>	USA	1	20	Regional	Dwayne Scaif, President
96	89	<b>PSC Crane &amp; Rigging Inc.</b>	USA	1	150	Regional	Randy Sever, Executive Vice President
97	91	<b>Iron Stag Crane Service</b>	USA	1	20	Regional	Ned Eisenhart, President
-98	92	<b>Davco Ltd.</b>	USA/Canada	2	100	Regional	David Faas, President
-98	97	<b>Patriot Crane &amp; Rigging</b>	USA	1	70	National	Carrie Olson
99	93	<b>Waggoner Equipment Rental</b>	USA	1	15	Regional	Alana Yount, Operations Manager
100	95	<b>Runnion Equipment Company</b>	USA	2	39	Worldwide	Patrick Runnion, CEO

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were only 365 new mobile cranes added.

This year's **ACT100** has 103 companies on the list due to three ties in the **ACT** index.

For the 13th time, Maxim Crane Works is Number 1 on the **ACT100**, with an **ACT** index of 693,464, up from 680,700 tons last year. Maxim still appears to be in an acquisition mode and is actively buying new cranes, based on news reports over



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the last year. Maxim shows a total crane fleet of 3,145 cranes, which includes 2,650 mobile units and 495 crawlers.

Number 2 on the list is the ALL Erection Family of Companies posting an index of 169,700, down from their 2017 index of 178,212. Bigge jumped to Number 3 this year and the top five rounded out with Lampson International at 4 and Mammoet North America at Number 5.

The 2018 **ACT100** welcomes 13 new companies to the list, with Canada's Sterling Crane debuting at Number 12, B&G Crane Service at Number 26, Joyce Crane at Number 31, Laramie Equipment at Number 34, Exact Crane & Equipment at Number 43, Boss Crane & Rigging at Number 50, Allison Crane & Rigging at Number 59, General Steel Crane &



PHOTO COURTESY OF RUNNION

Rigging at Number 76, Omega Morgan at Number 84, Selinsky Force at Number 85, Greiner Industries at 89, Diamond Steel at Number 91 and Modern Construction/Modern Crane & Rigging at Number 95.

Mergers and acquisitions continue to impact the **ACT100**, although we

## Top 10 largest crawler fleets

RANK 2018	COMPANY NAME	WEBSITE	CRAWLER FLEET
1	<b>Maxim Crane Works</b>	cranerental.com	<b>495</b>
2	<b>Lampson International</b>	lampsoncrane.com	<b>389</b>
3	<b>ALL Family of Companies</b>	allcrane.com	<b>359</b>
4	<b>Bigge Crane and Rigging Company</b>	bigge.com	<b>216</b>
5	<b>Sterling Crane</b>	sterlingcrane.com	<b>150</b>
6	<b>Buckner Heavy Lift Cranes</b>	bucknercompanies.com	<b>145</b>
7	<b>Mammoet Americas</b>	mammoet.com	<b>136</b>
8	<b>J.F. Lomma Inc.</b>	jflomma.com	<b>92</b>
9	<b>W.O. Grubb Inc.</b>	wogrubb.com	<b>79</b>
10	<b>Scott-Macon Equipment</b>	smequipment.com	<b>58</b>



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WEBSITE	MOBILE CRANES	CRAWLER CRANES	LARGEST CRANE	CAPACITY	ACT INDEX
greinerindustries.com	11	0	Grove GMK6400	450	<b>1,525</b>
rozellind.com	11	0	Tadano ATF 400G-6	450	<b>1,471</b>
diamondsteel.com	28	0	Grove GMK 275	275	<b>1,441</b>
benchleycrane.com	12	0	Liebherr LTM 1350-6.1	400	<b>1,385</b>
dccrane.com	11	5	Link-Belt LS-218HSL	110	<b>1,260</b>
jcrane.com	10	0	Grove GMK 5275	275	<b>1,204</b>
moderncraneinc.com	12	1	Grove 5275	275	<b>1,131</b>
pscind.com	12	0	Liebherr LTM1250	300	<b>1,050</b>
ironstagcrane.com	9	0	Grove GMK 6300L	350	<b>1,040</b>
davcoltd.com	14	2	Link-Belt ATC 3250	250	<b>960</b>
patriotserviceinc.com	8	2	Link-Belt 3275	275	<b>960</b>
waggonerequipment.com	24	0	Grove RT9130E	130	<b>762</b>
runnionequipment.com	28	0	National NBT45142	45	<b>695</b>

didn't see any major firms swept up this year, as seen in the last few years. Still, TNT Crane & Rigging, Barnhart, Maxim, NCSG and Bigge appear to still be in an acquisition mode.

Only one company made a substantial drop on the **ACT100**, Entrec at Number 25 was Number 11 last year. The top 25 pretty much stayed the same with, as we said above, Sterling Crane entering the list at Number 12.

The largest crawler crane fleet in North America again belongs to Maxim Crane Works with 495, up 20 units from last year. Maxim also has the largest mobile crane fleet with 2,650 units followed by ALL Erection with 1,964 mobile crane units.

The largest crane on the **ACT100** is Mammoet's 5,000-ton capacity PTC

200 DS. Other heavy lift cranes on the **ACT100** are the 3,000-ton capacity Lampson LTL-3000, the 2,535-ton capacity Manitowoc 31000 owned by Maxim and the 2,500-ton TC-36000 Versa Crane owned by Deep South Crane & Rigging. In the top 10 largest capacity cranes, Liebherr had the most on the list with five.

In terms of the most popular cranes in the category of largest crane in fleet, the Manitowoc brand ranks highest. There are 39 Manitowoc, Grove or National branded cranes on the list and 37 Liebherr branded cranes listed as the largest crane in fleet. There are 16 Terex/Demag models, three Tadanos and three Link-Belts. The most popular crane is the Manitowoc Grove 7550 with nine companies reporting this is the largest crane in their fleet. In



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some cases differing capacities were listed for the same machines. We rely on the information supplied to us in determining these capacities as rigging variables can change these totals.

### Our methodology

For this list, we sent surveys to close to 500 companies in the U.S., Canada and Mexico. While the **ACT100** is much more comprehensive than it was when we started it 13 years ago, we realize there are probably 10 to 15 major crane-owning companies not represented on the **ACT100**. Some companies do not want to share information about their fleets and we respect their decision.

You will see an asterisk by two companies. For these entries, we didn't necessarily get updated information and instead relied on an estimate formula based on data obtained last year and through other sources. All of these

>54

## Top 10 largest mobile fleets

RANK 2018	COMPANY NAME	WEBSITE	MOBILE FLEET
1	<b>Maxim Crane Works</b>	cranerental.com	<b>2,650</b>
2	<b>ALL Family of Companies</b>	allcrane.com	<b>1,964</b>
3	<b>Bigge Crane and Rigging Company</b>	bigge.com	<b>866</b>
4	<b>Sterling Crane</b>	sterlingcrane.com	<b>850</b>
5	<b>TNT Crane &amp; Rigging</b>	tntcrane.com	<b>587</b>
6	<b>Mammoet Americas</b>	mammoet.com	<b>528</b>
7	<b>Scott-Macon Equipment</b>	smequipment.com	<b>453</b>
8	<b>Barnhart Crane &amp; Rigging</b>	barnhartcrane.com	<b>437</b>
9	<b>Crane Works Inc.</b>	crane-works.com	<b>432</b>
10	<b>Guay Inc.</b>	gruesguay.com	<b>429</b>



companies on the list were contacted, some several times, and given the opportunity to supply fleet information and related data.

As we noted previously, in the largest crane category, differing capacities may be listed for the same machines. This could have to do with differing boom, jib and lift packages. We rely on the information supplied to us in determining these capacities as rigging variables can change the capacity of the crane.

**ACT Top Lists**

*American Cranes & Transport* presents four top lists each year. In our June issue is the largest list, the **ACT100** list of North America's largest crane-owning companies. In the August issue is the **ACTTOWERCRANE50**; in the December issue is the **ACTTRANSPORT50** and in the March issue is the **ACTSPECIALIZEDLIFTING50**. If you would like to participate in any or all these lists please email D.Ann Shiffler, editor, at [d.annshiffler@khl.com](mailto:d.annshiffler@khl.com).

Because the vast majority of crane-owning companies are privately held, it can be difficult to obtain and verify

figures, although we do approach independent industry sources for assistance and use related web resources and research when we use an estimate.

**Top 10 largest cranes**

RANK 2018	COMPANY NAME	LARGEST CRANE	CAPACITY
1	<b>Mammoet North America</b>	Mammoet PTC 200	<b>5,000</b>
2	<b>Lampson International</b>	Lampson Transi-Lift LTL-3000	<b>3,000</b>
3	<b>Maxim Crane Works</b>	Manitowoc 31000	<b>2,535</b>
4	<b>Deep South Crane &amp; Rigging</b>	TC-36000 VersaCrane	<b>2,500</b>
5	<b>Buckner HeavyLift Cranes</b>	Liebherr LR 11350-P	<b>2,000</b>
6	<b>Barnhart Crane &amp; Rigging</b>	Terex-Demag CC4000 RL	<b>1,760</b>
7	<b>Guay Inc.</b>	Liebherr LTM 11200-9.1	<b>1,500</b>
7	<b>Fagioli Inc. (USA)</b>	Liebherr LR 11350	<b>1,500</b>
8	<b>NCSG Crane and Heavy Haul Services</b>	Liebherr LTM 11200-9.1	<b>1,440</b>
9	<b>Sterling Crane</b>	Demag CC8800	<b>1,375</b>
10	<b>Northwest Crane Service</b>	Liebherr LR 11000	<b>1,200</b>

**Disclaimer**

We rely on the integrity of the companies that participate, wholly assuming that the information they provide is accurate and truthful to the best of their knowledge. We work to insure the accuracy of information provided but take no responsibility for errors or omissions. We will continue to work to make the **ACT100** the most comprehensive list possible. Companies are ranked by their **ACT100** Index, which is calculated by adding together the maximum lifting capacities in U.S. tons of all crawler cranes and mobile cranes in a company's fleet.



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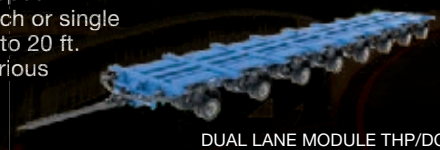


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# Steady growth

ACT's 14th annual ranking of North America's largest specialized transportation companies.

The growth of North America's specialized transportation sector is solid and steady. The 2018 **ACTTRANSPORT50** saw growth in every category except for the number of Modular/Hydraulic Platform Trailers/Dollies, which went down significantly due to a reporting change by one of the companies on the list. Most likely this company moved a significant amount of assets to Europe, where it is based.

As for our **ACTTRANSPORT50** ranking, Landstar Transportation Logistics kept its long-time Number 1 spot with a fleet size of 13,693, gaining more than 1,000 units. It must be noted that Landstar's fleet size is due in part to the large number of truck/tractors in its fleet. In terms of capacity of fleet, Landstar again reins with 86,890 U.S. tons.

The top three spots on the **ACTTRANSPORT50** stayed the same with Landstar, Daseke and ATS Inc. taking their usual positions. After that, things changed a little here and there, with Bennett Motor Express moving up two spots, Maxim Crane Works moving up one spot, Combined Transport moving up one spot, Mammoet Americas moving from four to eight and Barnhart and Bigge swapping places to nine and 10 respectively.

New in the top 20 this year is ML Holdings Group debuting at Number 17. The growing crane conglomerate has been acquiring companies that offer more than just lifting services, giving the company a nice place to land for the first time on the **ACTTRANSPORT50**. Also new this year are Number 28 DD&S Express, Number 30 Totran Transportation Services, Number 31 Contractors Cargo, Number 36 Beyel Brothers and Number 40 Mountain Transport.

Due to mergers and acquisitions, three long-time companies on the list are no



PHOTO: LITTOFF AERIALS

longer a part of the **ACTTRANSPORT50**. It appears this trend will continue as the smaller providers are gulped up by the larger ones.

A few highlights this year over 2017 is that employee counts have increased significantly after a drop in 2017. Almost every company on the list increased its fleet size and capacity.

Due to two two-way ties and one three-way tie in fleet sizes, 54 companies made the 2018 **ACTTRANSPORT50**.

## Methodology

While most of the major players in the North American transportation sector are on our **ACTTRANSPORT50** list, there are changes from year to year based on participation. The **ACTTRANSPORT50** is ranked by fleet size and then by total maximum transport capacity of all relevant trailers and transport systems in a company's fleet (in U.S. tons).

The ranking is based on information supplied on our **ACTTRANSPORT50** survey form. While we have worked to produce the most accurate ranking possible, we cannot guarantee the accuracy of the information supplied. We rely on the integrity and honesty of those who submit this information to assure our list is accurate and correct. This year we reached out to more than 400 firms by email, telephone, social

media and E-casts. In some cases, when data wasn't available or updated, we marked these listings as estimates.

As with all our top list databases, we made every effort to ensure the accuracy and completeness of the information published but the editors and staff take no responsibility for errors, omissions or incomplete information. ■ >58

<b>TOTAL FLEET SIZE:</b>	51,313
<b>TOTAL CAPACITY:</b>	1,245,346 (U.S. tons)
<b>TOTAL NUMBER OF TRUCK/TRACTORS:</b>	21,961
<b>TOTAL NUMBER OF EMPLOYEES:</b>	29,195
<b>TOTAL NUMBER OF TERMINALS:</b>	2,294
<b>TOTAL NUMBER OF MODULAR/HYDRAULIC PLATFORM TRAILERS/DOLLIES IN FLEET:</b>	9,844
<b>TOTAL CAPACITY OF MODULAR/HYDRAULIC PLATFORM TRAILERS/DOLLIES IN FLEET:</b>	443,971 (U.S. tons)
<b>TOTAL NUMBER OF SPECIALIZED TRAILERS (INCLUDING ALL MULTI-AXLE UNITS) IN FLEET:</b>	20,877
<b>TOTAL CAPACITY OF SPECIALIZED TRAILERS (INCLUDING ALL MULTI-AXLE UNITS) IN FLEET:</b>	804,523

BY THE NUMBERS

RANK	COMPANY NAME	HEADQUARTERS	# OF TERMINALS	SCOPE OF OPERATION	# OF EMPLOYEES	SENIOR CONTACT	WEBSITE
1	<b>Landstar Transportation Logistics</b>	Jacksonville, FL	1,500	International	1,200	Rusty Cody, vice president, heavy specialized	www.landstar.com
2	<b>Daseke Inc.</b>	Addison, TX	109	International	5,950	Don Daseke, president/CEO	www.daseke.com
3	<b>ATS Specialized</b>	St. Cloud, MN	15	International	1,337	Gary Stang, senior vice president, general manager	www.atsinc.com
4	<b>Bennett Motor Express</b>	McDonough, GA	185	International	1,002	David Lowry, CEO Jay Folladori, president	www.bennettig.com
5	<b>ALL Erection &amp; Crane Rental</b>	Independence, OH	36	International	1,500	Michael L. Liptak, president	www.allcrane.com
6	<b>Maxim Crane Works *</b>	Bridgeville, PA	54	National	2,705	Frank Bardonaro, COO	www.cranerental.com
7	<b>Combined Transport Inc.</b>	Central Point, OR	1	International	592	Michael S. Card, president	www.combinedtransport.com
8	<b>Mammoet Americas</b>	Rosharon, TX	21	International	1,400	Paul van Gelder, CEO	www.mammoet.com
9	<b>Barnhart Crane &amp; Rigging</b>	Memphis, TN	50	National	1,420	Alan Barnhart, CEO	www.barnhartcrane.com
10	<b>Bigge Crane &amp; Rigging</b>	San Leandro, CA	17	International	1,010	Weston Settlemier, president/CEO	www.bigge.com
11	<b>NCSG Crane &amp; Heavy Haul</b>	Acheson, Alberta, Canada	26	International	1,000	Darin Coutu, president and CEO	www.ncsg.com
12	<b>Deep South Crane &amp; Rigging</b>	Baton Rouge, LA	7	International	700	Mitch Landry, vice president	www.deepsouthcrane.com
13	<b>Transport Bellemare International</b>	Tross-Rivieres, Quebec City, Canada	7	International	710	Jean-Luc Bellemare, president	www.transportbellemare.com
14	<b>Entrec Corporation</b>	Acheson, Alberta Canada	14	International	550	John M. Stevens, president/CEO	www.entrec.com
15	<b>Daily Express</b>	Carlisle, PA	8	International	157	Mark Eyer, vice president, operations	www.dailyexp.com
16	<b>Emmert International</b>	Clackamas, OR	4	International	125	Terry W. Emmert, president	www.emmertintl.com
17	<b>ML Holdings Company</b>	Albuquerque, NM	15	National	567	Scott Wilson, president	www.mlholdingscrane.com
18	<b>Sterett Crane &amp; Rigging</b>	Evansville, IN	9	National	70	Jonathan Spong, president	sterettheavyhauling.com
19	<b>Fagioli USA</b>	Manvel, TX	3	International	184	Edoardo Ascione, president	www.fagioli.com
20	<b>Berry Contracting/Bay Ltd.</b>	Corpus Christi, TX	8	International	2,500	Larry Lewis, heavy haul/ rigging manager	www.bayltd.com
21	<b>Sarens North America</b>	Houston, TX		International	325	Mike Hussey, regional director, North America	www.sarens.com
22	<b>Tradelossa</b>	Durango, DGO, Mexico	7	International	279	Carlos Carcamo, commercial manager	www.tradelossa.com
23	<b>Edwards Moving &amp; Rigging</b>	Shelbyville, KY	6	International	120	Mark Edwards, CEO	www.edwardsmoving.com
24	<b>Heavy Transport/Bragg</b>	Long Beach, CA	9	National	200	Robert Weyers, general manager	www.braggcrane.com
25	<b>Miller Transfer</b>	Rootstown, OH	18	International	85	Mitchell J. Unger, president	www.millertransfer.com
26	<b>Northwest Logistics</b>	Oklahoma City, OK	6	International	190	Andy Hodges, president	www.northwestheavyhaul.com
27=	<b>Lampson International</b>	Kennewick, WA	8	International	300	William Lampson, president/CEO	www.lampsoncrane.com
27=	<b>W.O. Grubb Crane Rental*</b>	Richmond, VA	14	National	400	William O. Grubb, president/owner	www.wogrubb.com
28	<b>DD&amp;S Express</b>	Annapolis, MD	51	National	12	Rick Seleski, vice president	ddsexpress.com
29	<b>J Supor &amp; Son Trucking &amp; Rigging</b>	Kearny, NJ	5	National	188	Doug Filos, director, heavy haul	www.jsupor.com
30	<b>Totran Transportation Services</b>	Calgary, Alberta Canada	2	International	130	Scott Trousdale, vice president	www.totran.ca
31	<b>Contractors Cargo Company</b>	Compton, CA	2	International	40	Gerald Wheeler, president and owner	www.contractorscargo.com
32	<b>Berard Transportation</b>	New Iberia, LA	5	National	72	Brett Berard, vice president, operations	www.berardtrans.com
33	<b>Burkhalter</b>	Columbus, MS	4	International	120	Delynn Burkhalter, CFO	www.burkhalter.net
34	<b>Entrec Corporation</b>	Acheson, Alberta Canada	14	International	550	John M. Stevens, president/CEO	www.entrec.com
35	<b>Erickson's*</b>	North Muskegon, MI	3	National	70	Steve Erickson, president	www.ericksonsg.com

\* ACT estimate



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MODULAR/HYDRAULIC/TRAILERS/DOLLIES		SPECIALIZED TRAILERS (ALL MULTI-AXLE)		# OF TRUCK/ TRACTORS	TOTAL CAPACITY (US TONS)	TOTAL # IN FLEET
CAPACITY (US TONS)	# IN FLEET	CAPACITY (US TONS)	# IN FLEET			
2,555	38	96,890	3,164	10,491	96,890	<b>13,693</b>
7,052	178	61,070	2,612	4,090	69,747	<b>7,024</b>
590	15	66,663	2,092	914	67,253	<b>3,021</b>
4,280	37	46,040	1,080	1,028	50,320	<b>2,145</b>
725	11	61,565	1,768	342	62,290	<b>2,121</b>
5,432	229	37,373	1,257	379	42,805	<b>1,865</b>
1,830	504	4,685	162	575	6,515	<b>1,241</b>
78,245	538	18,484	549	116	94,049	<b>1,203</b>
23,413	557	35,688	650	356	59,101	<b>1,148</b>
28,886	576	22,854	416	102	51,740	<b>1,094</b>
13,244	373	19,852	521	157	33,096	<b>1,051</b>
16,727	419	16,338	404	77	33,065	<b>942</b>
7,048	283	20,016	384	250	27,064	<b>917</b>
15,840	413	10,220	182	182	26,060	<b>875</b>
1,065	14	21,360	512	286	22,425	<b>812</b>
24,775	557	9,850	113	91	34,625	<b>761</b>
1,500	64	9,330	379	230	10,830	<b>675</b>
14,245	318	10,178	276	73	24,423	<b>667</b>
22,058	652	0	0	0	25,058	<b>652</b>
14,648	336	2,750	145	160	17,398	<b>641</b>
20,527	517	2,080	65	22	22,607	<b>604</b>
11,530	258	8,716	182	153	20,246	<b>593</b>
17,913	327	9,664	179	60	27,577	<b>566</b>
15,400	175	7,700	246	110	23,100	<b>531</b>
140	1	14,450	353	135	14,590	<b>489</b>
3,707	81	7,467	218	180	11,174	<b>479</b>
14,006	372	2,032	64	30	16,038	<b>466</b>
4,140	92	7,173	279	95	11,313	<b>466</b>
250	4	8,880	230	181	9,130	<b>415</b>
10,340	228	6,670	123	61	17,133	<b>412</b>
12,346	590	10,340	226	90	22,686	<b>376</b>
3,130	98	7,960	215	55	11,090	<b>368</b>
11,432	238	2,110	48	39	13,542	<b>325</b>
7,500	176	6,353	96	45	13,853	<b>317</b>
15,840	413	10,220	182	182	26,060	<b>875</b>
5,639	113	2,865	127	40	8,504	<b>280</b>

EDITORS NOTE: Every attempt has been made to assure information in the ACTTRANSPORT50 is correct and accurate. The editors of ACT do not assume responsibility for errors, omissions or erroneous information.



RANK	COMPANY NAME	HEADQUARTERS	# OF TERMINALS	SCOPE OF OPERATION	# OF EMPLOYEES	SENIOR CONTACT	WEBSITE
36	<b>Beyel Brothers Inc.</b>	Cocoa, FL	8	Regional	375	Joseph Beyel, president	www.beyel.com
37=	<b>MSA Delivery Services</b>	Canton, MI	6	International	75	Jerry Rozum, president	www.msadelivery.com
37=	<b>Southwest Industrial Rigging*</b>	Phoenix, AZ	4	International	180	Mike Madge, vice president	www.swirusa.com
38	<b>J. F. Lomma Inc.*</b>	South Kearny, NJ		National	163	James Lomma, president	www.jflomma.com
39	<b>Trans-United Inc.</b>	Burns Harbor, IN	12	International	57	Jeffrey S. Fleming, president	www.transunited.com
40	<b>Mountain Transport</b>	Salt Lake City, UT	1	National	43	Paul Belcher, owner/CEO	www.mountaincrane.com
41	<b>TJ Potter Trucking</b>	Becker, MN	1	Regional	65	Todd Potter, heavy haul	www.tjpottertrucking.com
42	<b>Omega Morgan</b>	Hillsboro, OR	6	International	350	Troy Tallent, vice president, operations	www.omegamorgan.com
43	<b>Midwest Specialized Transportation</b>	Rochester, MN	2	National	76	Sean Claton, vice president/general manager	www.midspec.com
44=	<b>Intermountain Rigging</b>	Salt Lake City, UT	2	National	90	Ron Montgomery, president	www.intermountainrigging.com
44=	<b>Yarbrough Transfer Company</b>	Winston-Salem, NC	3	Regional	68	David Yarbrough, president	www.goytc.com
44=	<b>Silk Road Transport*</b>	Arkport, NY	1	International	45	Todd S. Haraty, COO	www.silkroadtrans.com
45	<b>Precision Heavy Haul</b>	Tolleson, AZ	2	Regional	24	Mike Poppe, president	www.precisionheavyhaul.com
46	<b>Taylor Crane &amp; Rigging</b>	Coffeyville, KS	2	National	91	Jim C. Taylor, president	www.taylorcrane.com
47	<b>Global Specialized Services</b>	Casper, WY	1	National	43	Jim Orr, president	www.gsswy.com
48	<b>Great Lakes Heavy Haul</b>	Byron Center, MI	1	National	33	Ben Mayer, COO	www.greatlakesheavyhaul.com
49	<b>Specialized Inc.</b>	Aurora, OH	1	Regional	17	Al Kuhl, president	www.specialized-inc.com
50	<b>Perkins STC</b>	Northfield, MN	2	International	40	Todd Potter, president	www.perkinsstc.com

\* ACT estimate

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MODULAR/HYDRAULIC/TRAILERS/DOLLIES		SPECIALIZED TRAILERS (ALL MULTI-AXLE)		# OF TRUCK/ TRACTORS	TOTAL CAPACITY (US TONS)	TOTAL # IN FLEET
CAPACITY (US TONS)	# IN FLEET	CAPACITY (US TONS)	# IN FLEET			
5,735	164	5,820	117	65	11,555	<b>246</b>
0	0	23,655	170	59	23,655	<b>229</b>
3,000	60	5,200	110	59	9,333	<b>229</b>
0	0	44,350	170	47	44,350	<b>217</b>
1,980	32	3,900	99	65	5,880	<b>196</b>
1,877	35	4,008	114	40	5,885	<b>189</b>
0	0	4,915	127	50	4,915	<b>177</b>
2,200	50	3,155	65	49	5,355	<b>164</b>
60	2	3,690	106	54	3,750	<b>162</b>
1,425	37	4,100	58	46	5,525	<b>141</b>
0	0	3,823	89	52	3,823	<b>141</b>
1,150	30	2,040	80	31	3,190	<b>141</b>
505	14	5,299	94	14	5,804	<b>122</b>
2,015	13	2,220	39	30	4,265	<b>82</b>
375	3	240	6	24	1,920	<b>59</b>
0	0	210	24	27	210	<b>51</b>
0	0	2,040	35	10	2,040	<b>45</b>
0	0	3,522	20	22	3,522	<b>42</b>



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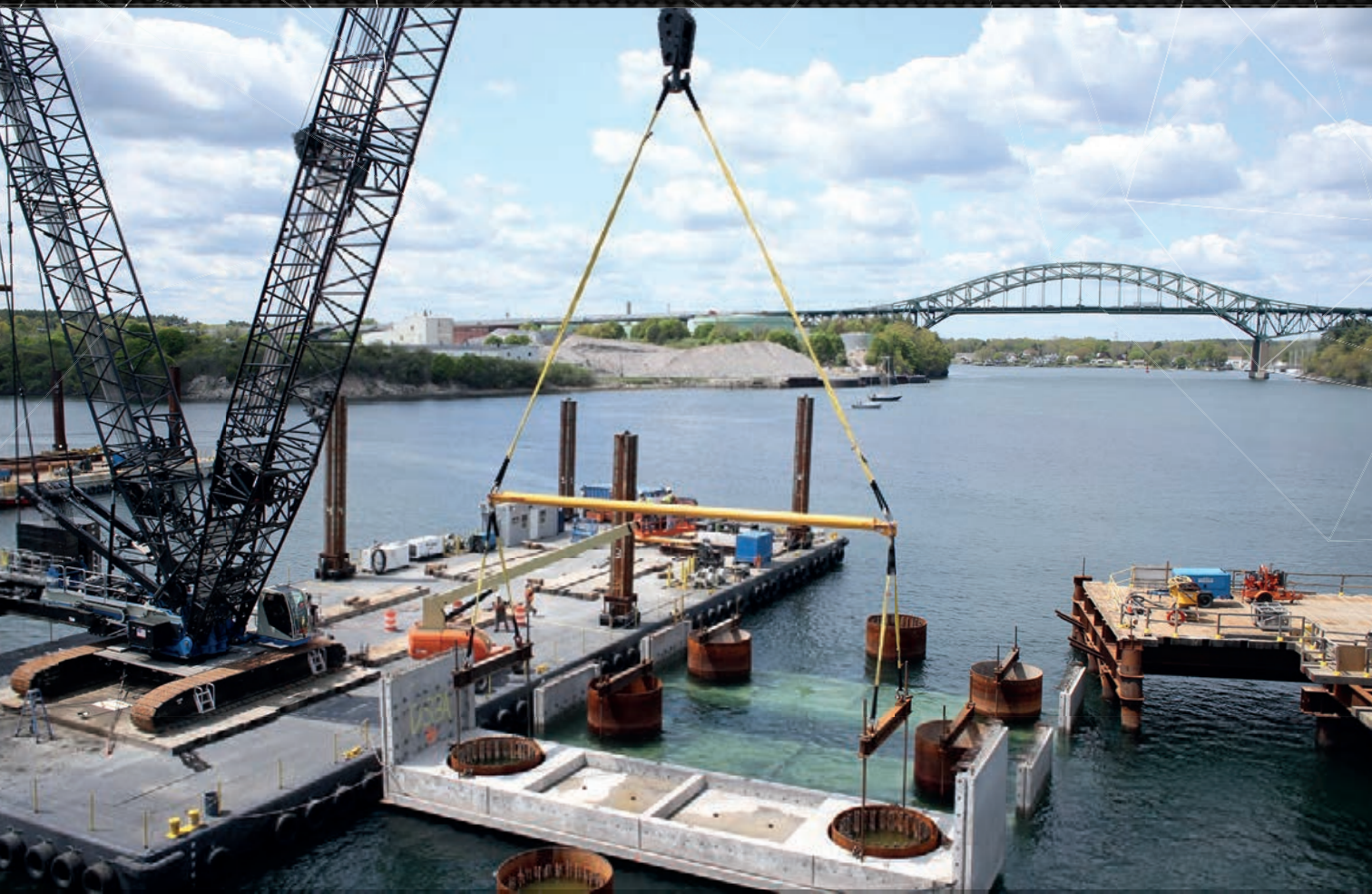
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# SPECIALIZED LIFTING 50

## Slow and steady

Barnhart uses its Adjustable Rigging Link system and One-Shot gantries to install a vessel at a refinery.

PHOTO COURTESY OF BARNHART CRANE & RIGGING.



BY THE NUMBERS

- The companies represented in the **SPECIALIZEDLIFTING50** employ approximately **14,524** people.
- **646** gantries and rubber tired gantries are owned by these companies, the same amount in 2016.
- **926** strand jack units are owned by the **SPECIALIZEDLIFTING50**, as compared to 895 in 2017.
- **5,138** pieces of other specialized lifting equipment (not classified as a gantry or strand jack) are owned by these companies as compared to 4,014 in 2017.
- The total capacity of every unit owned by every company on the list equals **1,427,872** tons. The total last year was 1,387,649 tons.

Aggregating the most influential players in the specialized lifting industry is a task that our ACT team has taken on since 2010. Over the last year, the 2018 **SPECIALIZEDLIFTING50** list has seen a slight increase in every area. While there weren't any categories that stood out astronomically, we are seeing several of the larger companies on the list growing their fleets progressively –

particularly when it comes to strand jacks and gantries. As the market continues to stabilize, the numbers should continue to climb.

This year we posted an index of 1,427,872 gaining 40,223 tons over the 2017 index of 1,387,649.

For comparison's sake, the total capacities between 2012 and 2018 were:

- 2012: 1,047,457** tons
- 2013: 939,180** tons
- 2014: 1,024,998** tons
- 2015: 998,234** tons
- 2016: 1,251,422** tons
- 2017: 1,387,649** tons
- 2018: 1,427,872** tons

### Top 10: LARGEST CAPACITY UNIT

RANK	NAME OF COMPANY	MAKE/MODEL OF LARGEST SPECIALIZED LIFTING UNIT	CAPACITY OF LARGEST LIFTING UNIT (U.S. TONS)	SPECIALIZED LIFTING INDEX (U.S. TONS)
1	Mammoet North America	Mammoet Lift System	350,000	372,800
2	Fagioli USA	Fagioli Self-Propelled Skid System	70,000	288,000
3	Wolfe House Movers	Synchronized Jacking System	7,200	16,905
4	Omega Morgan	Heavy Slide System	6,000	8,150
5	Barnhart Crane & Rigging	Barnhart Modular Lift Tower	5,000	276,428
6	Bigge Crane & Rigging	Bigge Lift Tower System	4,000	90,922
7	Berard Transportation	Enerpac Syncrolift	4,000	12,600
8	Burkhalter	BPU-750	3,527	21,500
9	Emmert International	Emmert Lift System	3,250	80,850
10	Lampson International	E-Z Lift	2,400	13,500



Fagioli assembled and installed modules into a topside unit on a customized pier.

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RANK 2018	RANK 2017	NAME OF COMPANY	LOCATION	# OF DEPOTS	SCOPE OF OPERATION	# OF EMPLOYEES	SENIOR CONTACT
1	1	<b>Mammoet North America</b>	USA	21	Worldwide	1,300	Bill Ambrose, president, Americas
2	2	<b>Fagioli USA</b>	USA	2	Worldwide	142	Edoardo Ascione, president
3	3	<b>Barnhart Crane &amp; Rigging</b>	USA	47	National	1,250	Alan Barnhart, CEO
4	5	<b>Bigge Crane &amp; Rigging</b>	USA	17	National	882	Weston Settlemier, president & CEO
5	4	<b>Emmert International</b>	USA	3	Worldwide	110	Terry W. Emmert, president
6	6	<b>Edwards Moving &amp; Rigging</b>	USA	9	Worldwide	137	Mark Edwards, CEO
7	13	<b>Deep South Crane &amp; Rigging</b>	USA	8	Worldwide	610	Mitch Landry, president
8	7	<b>Doral Equipment</b>	USA	3	National	50	Rob Keelan, vice president
9	8	<b>Burkhalter</b>	USA	4	Worldwide	150	Delynn Burkhalter, CEO
10	11	<b>Wolfe House Movers</b>	USA	2	Worldwide	45	Jamin Buckingham, president
11	14	<b>Rigging Gear Sales, Inc.</b>	USA	1	Worldwide	15	Ben Forster, vice president
12	9	<b>Lampson International</b>	USA	8	Worldwide	300	Kate Lampson, directory, PR & marketing
13	10	<b>Erickson's</b>	USA	3	Regional	70	Steve Erickson, president
14	15	<b>Berard Transportation</b>	USA	5	National	75	Brett Berard, vice president of operations
15	12	<b>Transport Bellemare *</b>	Canada	4	Worldwide	1,100	Daniel Provost, transport operations manager
16	16	<b>International Industrial Contracting Corporation *</b>	USA	4	National	300	Douglas Jardine, President
17	18	<b>Taylor Crane &amp; Rigging</b>	USA	2	National	74	Jim C. Taylor, Jr., president
18	17	<b>Omega Morgan</b>	USA	4	Worldwide	325	Troy Tallent, vice president, specialized
19	21	<b>TNT Crane &amp; Rigging</b>	USA	42	National	1,500	Mike Appling, CEO
20	20	<b>Norris Brothers Co. *</b>	USA	1	Regional	65	Joseph B. Michael, President & CEO
21	22	<b>PSC Crane &amp; Rigging</b>	USA	4	National	175	Randy Sever, executive vice president
22	19	<b>IRM Industry Movers</b>	Mexico	2	Worldwide	75	David Gonzalez, president/CEO
23	23	<b>Transtell SA de CV *</b>	Mexico	1	Worldwide	120	Guillermo Arce, general manager
24	24	<b>Advanced Rigging &amp; Machinery Movers</b>	USA	1	Regional	30	Matthew Hinty, president
25	25	<b>Duffy Crane &amp; Hauling * Machinery Movers</b>	USA	1	Regional	50	Jeffrey L. Cummings, president
26	27	<b>Atlas Industrial Contractors *</b>	USA	7	Worldwide	350	George Ghanem, president & CEO
27	28	<b>NCSG Crane &amp; Heavy Haul</b>	Canada	27	Worldwide	1,000	Ted Redmond, president, CEO
28	29	<b>Maxim Crane Works</b>	USA	53	National	2,705	Frank Bardonaro, COO
29	32	<b>Riggers Group</b>	Mexico	3	Worldwide	75	Hector R. Tores, Da Vila, vice president
30	31	<b>Mid-Atlantic Lift Systems</b>	USA	1	National	4	Travis Hall, president
31	33	<b>Selinsky Force</b>	USA	3	Regional	175	Jim Chapman, president/CEO
32	34	<b>Williams Steel Erection Company</b>	USA	1	Regional	100	Marianne Pastor, vice president
33	35	<b>Process Group Inc. *</b>	Canada	3	Canada	275	Bryan Snyder, VP construction
34	36	<b>CSE Inc. *</b>	USA	5	National	250	Chris Stinnette, CEO
35	38	<b>Holland Moving &amp; Rigging</b>	USA	1	Worldwide	20	Chris Holland, president
36	37	<b>Intermountain Rigging &amp; Heavy Haul</b>	USA	2	National	95	Ron Montgomery, president
37	39	<b>Southwest Industrial Rigging</b>	USA	4	National	170	Mike Madge, vice president
38	26	<b>Cropac Equipment</b>	Canada	4	National	75	Johnathan Vieira, marketing & comms manager
39	40	<b>Mountain Crane Service</b>	USA	4	National	122	Paul Belcher, owner, chief executive officer
40	30	<b>AME Inc.</b>	USA	4	National	158	Scott Walken, director of preconstruction
				<b>321</b>	<b>14,524</b>		

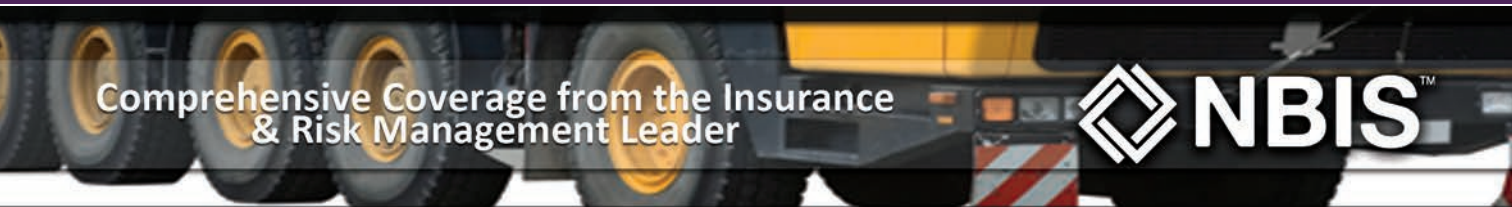
\* estimated

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WEBSITE	# OF RUBBER TIRED GANTRIES	# OF SPECIALIZED GANTRIES	# OF OTHER SPECIALIZED LIFTING UNITS	# OF STRAND JACK UNITS	MAKE/MODEL OF LARGEST SPECIALIZED LIFTING UNIT	CAPACITY OF LARGEST SPECIALIZED LIFTING UNIT (U.S. TONS)	SPECIALIZED LIFTING INDEX (U.S. TONS)
www.mammoet.com	0	20	305	157	Mammoet Lift System	350,000	<b>372,800</b>
www.fagioli.com	0	20	146	596	Fagioli Self-Propelled Skid System	70,000	<b>288,000</b>
www.barnhartcrane.com	0	84	758	18	Barnhart Modular Lift Tower	5,000	<b>276,428</b>
www.bigge.com	0	20	236	76	Bigge Lift Tower System	4,000	<b>90,922</b>
www.emmertintl.com	1	4	1,049	4	Emmert Lift System	3,250	<b>80,850</b>
www.edwardsmoving.com	0	16	560	4	Hydrosplex Strand Jack System	800	<b>60,957</b>
www.deepsouthcrane.com	2	3	50	6	Deep South Specialized Jack System	16,000	<b>29,800</b>
www.doralequipmentrental.com	0	7	83	0	Rigger-Lift R120	60	<b>21,800</b>
www.burkhalter.net	0	5	60	14	BPU-750	3,527	<b>21,500</b>
www.buckinghamtransport.com	0	0	85	0	Synchronized Jacking System	7,200	<b>16,905</b>
www.rgsinc.net	0	112	232	0	Lift Systems HH1000	1,000	<b>13,644</b>
www.lampsoncrane.com	0	4	8	0	E-Z Lift	2,400	<b>13,500</b>
www.ericksonsg.com	0	5	80	0	Enerpac SBL 1100	1,176	<b>12,676</b>
www.berardtrans.com	0	0	8	0	Enerpac Syncrolift	4,000	<b>12,600</b>
www.groupebellemare.com	0	1	5	0	Goldhofer	2,872	<b>12,000</b>
www.iicusa.com	0	36	525	0	Riggers Manufacturing EZ604	600	<b>9,660</b>
www.taylorcrane.com	0	8	187	0	Enerpac EVO Sync Lift System	2,400	<b>9,532</b>
www.omegamorgan.com	0	6	18	0	Heavy Slide System	6,000	<b>8,150</b>
www.tntcrane.com	0	6	75	0	Enerpac SBL 1100	1,100	<b>7,200</b>
www.norrisbr.com	0	3	13	0		125	<b>6,695</b>
www.pscind.com	0	3	96	1	Hydra-Slide JS250 "Up N Go"	1,000	<b>5,620</b>
www.irmindustrial.com	0	3	77	0	J&R Engineering L1001-4-34	500	<b>5,380</b>
www.transtell.com.mx	0	2	3	2	Hydrosplex HSL2000 Lifting	2,040	<b>5,340</b>
www.advanced-rigging.com	1	10	128	0	Hydratech FS 404 270	400	<b>5,265</b>
www.duffycrane.com	0	1	20	0			<b>5,000</b>
www.atlascos.com	0	3	89	4	Atlas Tower Lifting System	800	<b>4,400</b>
www.ncsg.com	0	1	6	0	J&R Lift & Lock Gantry	700	<b>4,200</b>
www.maximcrane.com	0	12	26	4	J&R Engineering Lift N Lock Gantry	700	<b>3,725</b>
www.riggers.mx	0	4	17	36	J&R Engineering Lift N Lock Gantry L1200	600	<b>3,300</b>
www.midatlanticlift.com	0	38	28	0	Lift Systems 34PT5400WT	500	<b>3,258</b>
www.selinskyforce.com	0	4	38	0	J&R Engineering Lift & Lock Gantry	500	<b>2,908</b>
www.wmsi.com	21	24	6	0	Link-Belt HC 278	300	<b>2,300</b>
www.processgroup.ca	0	3	20	0	Lifting Tower	1,000	<b>2,130</b>
www.cseonline.net	0	1	6	0	J&R Engineering Lift & Lock Gantry	900	<b>2,000</b>
www.hmrsupplies.com	50	0	20	0	Holland Power Dolly	55	<b>1,990</b>
www.irhusa.com	0	3	10	4	J&R Model L903-4-34-Gantry	450	<b>1,500</b>
www.swirusa.com	0	4	7	0	Lift Systems 850	850	<b>1,332</b>
www.cropac.com	5	5	45	0	Taylor X360M	50	<b>1,000</b>
www.mountaincrane.com	80	2	8	0	J&R Engineering Lift-N-Lock Gantry	200	<b>950</b>
www.ameonline.com	0	3	5	0	Lift Systems 75 Ton Twin-Lift	75	<b>755</b>
	<b>160</b>	<b>486</b>	<b>5,138</b>	<b>926</b>			<b>1,427,872</b>

*Editor's Note: American Cranes & Transport is not responsible for errors or omissions.*



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**Mammoet's JS 500 Jack-Up system can be deployed when lifting an object from the top is not possible.**

ACT began distributing survey forms for the **SPECIALIZEDLIFTING50** list via email in January 2018 and followed up with phone calls and more emails in February. The companies that completed and returned these surveys over the course of the last two months were included in this year's list.

For some companies we were forced to use their data from our 2017 list. In these cases, an asterisk will appear next to that company's name. As a result, the **SPECIALIZEDLIFTING50** is an estimate.

While every effort was made to ensure the accuracy and completeness of the information in this list, ACT, its editors and its publishers do not assume responsibility for any errors or omissions. We strive to improve this list, as well as our other annual lists, every year.

## 2019

To be a part of our 2018 **SPECIALIZEDLIFTING50**, email the editor, D. Ann Shiffler, to request a survey form. She can be reached at [d.annshiffler@khl.com](mailto:d.annshiffler@khl.com). Or you may email Assistant Editor Hannah Sundermeyer at [Hannah.sundermeyer@khl.com](mailto:Hannah.sundermeyer@khl.com).



It's clear that the growth of the specialized lifting industry has been flat over the last five to six years. Acquisitions have accounted for some of the jumps on the list and the larger companies tend to keep getting larger.

While the specialized lifting indexes

of our **SPECIALIZEDLIFTING50** may not be changing much, the total number of employees that work for them certainly is. This year's **SPECIALIZEDLIFTING50** employs some 14,524 people, up 1,016 from 13,508 in 2017.

## Top 10: NUMBER OF GANTRIES

RANK	NAME OF COMPANY	TOTAL NUMBER OF GANTRIES	SPECIALIZED LIFTING INDEX (U.S. TONS)
1	Rigging Gear Sales, Inc.	112	13,644
2	Barnhart Crane & Rigging	84	276,428
3	Mid-Atlantic Lift Systems	38	3,258
4	International Industrial Contracting Corporation*	36	9,660
5	Williams Steel Erection Company	24	2,300
6	Mammoet North America	20	372,800
7	Fagioli USA	20	288,000
8	Bigge Crane & Rigging	20	90,922
9	Edwards Moving & Rigging	16	60,957
10	Maxim Crane Works	12	3,725

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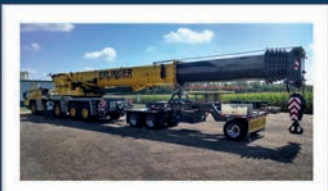


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# WHERE TO BE IN 2019

## JANUARY BOARD & COMMITTEE MEETINGS



JANUARY 3-6



GRAND WAILEA  
WAILEA, HI

## SPECIALIZED TRANSPORTATION SYMPOSIUM



FEBRUARY 19-22



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## ANNUAL CONFERENCE



APRIL 23-27



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*\*Excludes the January Board & Committee Meeting*



# Jump up!

The **ACTTOWERCRANE50** shows slow but steady growth in all categories. **Hannah Sundermeyer** reports.

BY NUMBERS

## TOWER CRANES

1,941

## BRANCHES

251

## EMPLOYEES

9,264

## Largest tower cranes (by capacity)

2018 RANK	COMPANY	LARGEST TOWER CRANE	CAPACITY (MT)
1	J.F. Lomma Inc.	Favco M1280D	96
2	Morrow Equipment	Liebherr 710HC-L	64
3	Maxim Crane Works	Wolff 1250B	60
4	Bigge Crane & Rigging	Comedil CTT721	40
5	United Crane & Rigging	Terex Peiner SK 575	35
6	ALL Family of Companies	Potain MR 608	32
7	P&J Arcomet	Potain MR 608	32
8	Stafford Crane Group	Terex Peiner SK 575	32
9	RMS Cranes	Potain MR 608	32
10	Oxford Builders Supplies	Terex Comedil CTL 630	32
11	SkyCrane Limited	Sun STT-753	32
12	B&G Equipment	Peiner SK 575	32
13	Wolffkran	Wolff 355 B	28
14	Crane Tech Solutions	Jaso J560	24
15	Blue Hat Crane	Linden Comansa 21LC550	20
16	Guay Inc.	Terex Peiner SK 415-20	20
17	Compass Equipment	Potain MD 485B	20
18	Custom Service Crane	Wolff 8033.20	20
19	Connelly Crane	Terex Peiner SK 415-20	20
20	Allied Crane	JASO J300 N	16
22	Bigfoot Crane	Potain MDT-219	10
23	Creative Lifting	Saes TLS-65	8

When you look up into the sky, it's hard not to notice the tower crane booms dominating urban horizons. North American city skylines are decorated with tower cranes hard at work on a variety of projects. *American Cranes & Transport's* annual **ACTTOWERCRANE50**, featuring 23 companies, has grown by exactly 158 units since 2017 and by 300 since 2016.

Notable changes this year on the **ACTTOWERCRANE50** is the omission of Allegiance Crane & Equipment, JayDeeContractors and A Quick Pick Crane & Rigging. However, our list increased by three companies in 2018 with the addition of B&G Equipment Supply with 24 tower cranes in its fleet, Allied Crane with 14 cranes, Wolffkran with 12 cranes, Kranes Inc. of Central New York with three cranes and Crane

>70

## 2018 ACTTOWERCRANE50

2018 RANK	2017 RANK	COMPANY	COUNTRY	NO. OF DEPOTS	NO. OF EMPLOYEES	SCOPE OF OPERATION
1	1	Morrow Equipment	USA	23	358	Worldwide
2	2	Maxim Crane Works	USA	52	3,500	National
3	3	Bigge Crane & Rigging	USA	17	956	National
4	4	ALL Family of Companies	USA	38	1,600	National
5	5	P&J Arcomet	USA	4	58	Worldwide
6	6	Creative Lifting Services	USA	1	22	National
7	14	Stafford Tower Crane of America	USA	1	70	Worldwide
8	9	RMS Cranes	USA	42	1,500	National
9	7	Bigfoot Crane Company	Canada	2	20	National
10	10	Oxford Builders Supplies	Canada	3	50	National
11	11	J.F. Lomma Inc.	USA	8	163	Worldwide
12	12	Blue Hat Crane & Equipment Rental	USA	6	92	National
13	13	Skycrane Limited	Canada	2	12	Worldwide
14	15	Guay Inc.	Canada	20	500	National
15	16	Compass Equipment	USA	4	50	National
16	NEW	B&G Equipment Supply	USA	6	105	National
17	17	United Crane & Rigging	USA	2	60	Regional
18	NEW	Allied Crane	Canada	1	14	National
19	NEW	Wolffkran Inc.	USA	2	7	Regional
20	18	Custom Service Crane	USA	5	45	Regional
21	19	Connelly Crane Rental	USA	3	47	National
22	NEW	Kranes Inc. of Central New York	USA	1	10	Regional
23	NEW	Crane Tech Solutions	USA	2	25	Regional

Tech Solutions with a fleet of two cranes.

In 2016, the **ACTTOWERCRANE50** index was changed from total capacity of crane fleet to size of fleet. We made this change for a number of reasons, namely because of the differing methodologies each company used to calculate total capacity. Fleet size offers a more equitable comparison and better represents the state of the crane market.

The **ACTTOWERCRANE50** changed significantly in 2016 and 2017 after Maxim Crane Works acquired AmQuip, Coast Crane and Essex Crane Rental. This gave Maxim a boost to Number 2,

where it has stayed the last two years.

In 2018, the most notable ranking shift was Stafford Tower Cranes, which jumped up from 14 to 7. Today the company has 65 tower cranes in its fleet as compared to 32 units in 2017.

Since 2016, the number of people employed by the **ACTTOWERCRANE50** has grown by 2,204 workers. This year, with 9,264 employees, the future appears to be bright for the tower crane industry as the market shows continual improvement. An aging workforce and skills gap are not affecting the tower crane sector that grew by 896 workers

since last year.

Morrow Equipment is still Number 1 on the list with a whopping 666 tower cranes. Morrow's fleet size increased slightly this year from 658 units in 2017. Morrow Equipment has held the Number 1 spot in our **ACTTOWERCRANE50** since its inception in 2005.

The second-place spot is again held by Maxim Crane Works with 350 units, up 33 tower cranes from 2017. Rounding out the top five are Number 3 Bigge Crane & Rigging and Number 4 ALL Erection with 210 and 94 tower cranes respectively. The Number 5 spot belongs to P&J



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SENIOR CONTACT	WEBSITE	LARGEST TOWER CRANE IN FLEET	LARGEST TOWER CRANE CAPACITY (MT)	NUMBER OF TOWER CRANES IN FLEET
Christian C. Blum, president	monrow.com	Liebherr 710HC-L	64	666
Bryan Carlisle, CEO	cranerental.com	Wolff FF 1250B	60	350
Walter Settlemier, president and CEO	bigge.com	Comedil CTT721-40 B	40	210
Michael L. Lipstak, president	allcrane.com	Potain MR 608	32	94
Stephen Jelen, president	pijarcornt.com	Terex Peiner SK 575	32	93
Walter Blum, president	creativelifting.com	Saez TLS-65	8	75
Patrick Stafford, president	staffordcranegroup.com	Peiner SK 575	32	65
Mike Appling, CEO	rentcranes.com	Potain MR 608	32	50
Ryan Burton, managing partner	bigfootcrane.com	Potain MDT-219	10	48
Mike Bato, president of equipment operations	oxfordbuilders.ca	Comedil CTL 630	32	39
James Long, president	jfloerinc.com	Favco M1280	96	38
Cheryl Lante, director, tower crane operations	bluehatcrane.com	Linden Comansa 21LC550	20	37
Jim Ward, president	towercranes.net	Sun STT-753	32	29
Jean-Marc Baronet, president	gruesguay.com	Terex Peiner SK 415	20	26
Kelly Land, CEO	copassequipment.com	Potain MD 418	20	25
JR Moran, director of crane operations	bgequipmentsupply.com	Terex Peiner SK575	32	24
Joe Mirabile, general manager	unitedcraneandrigging.com	Terex Peiner SK 575	35	22
Brek Kasa, manager	alliedcraneltd.ca	JASO J300N	16	14
Duncan Salt, head of sales	wolffkran.com	Wolff FF 355 B	28	12
Randy Hoffman, vice president	customerervicecrane.com	Wolff FF 8033.20	20	11
Michael A. Connelly, president	connellycrane.com	Terex Peiner SK 415-20	20	6
Neil Keukelaar, president	kranesinc.com	Potain MDT302	16.5	3
Robert Kohler, vice president	cranetechsolutions.com	JASO J560	24	2

Arcomet with 93 tower cranes in its fleet. Every company on the list previously has increased their fleet sizes since this time last year.

In terms of the largest capacity cranes on the list, J.F. Lomma leads the pack. Lomma's Favco M1280D has a capacity of 96 metric tons. Other large capacity tower cranes include the 64-metric ton Liebherr 710HC-L, the 60-metric ton Wolff 1250B and the 40-metric ton Terex Comedil CTT721. The complete list is on page 23.

American Cranes & Transport sent out our annual **ACTTOWERCRANE50** survey in late June 2018. Survey forms

were due back July 12. But you can request and submit a the survey form any time of year.

This year the ACT team made a bigger-than-ever effort to increase the number of companies on the **ACTTOWERCRANE50**. We created a database of 91 companies that we know have one or more tower cranes in their fleets. The problem is getting these companies to realize the value in filling out our survey form and submitting their information. As ever, we will continue to try to get this list to its rightful size of 50 companies. ■

**Disclaimer**

Like all of our lists, we work very hard to ensure the accuracy of the information submitted to us. ACT and its editors are not responsible for inaccuracies or errors in our top lists. We hope to continually grow this list. If your company has one or dozens of tower cranes in your fleet, you should be on this list. To receive a 2019 survey, please e-mail: D. Ann Shiffer at d.annshiffer@khl.com or Hannah Sundermeyer at hannah.sundermeyer@khl.com.

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# 2019 calendar of industry

**JANUARY 3-6, 2019**



**SC&RA January Board & Committee Meetings**  
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[www.scranet.org](http://www.scranet.org)

**JANUARY 22-25, 2019**



**World of Concrete**  
 Las Vegas, NV  
[www.worldofconcrete.com](http://www.worldofconcrete.com)

**FEBRUARY 4-7, 2019**



**AED Summit**  
 Orlando, FL  
[www.aednet.org/summit/](http://www.aednet.org/summit/)

**FEBRUARY 17-20, 2019**



**The ARA Show**  
 Anaheim, CA  
[www.therentalshow.com](http://www.therentalshow.com)

**FEBRUARY 19-22, 2019**



**SC&RA Specialized Transportation Symposium**  
 Houston, TX  
[www.scranet.org](http://www.scranet.org)

**FEBRUARY 24-27, 2019**



**Iron Workers/IMPACT Conference**  
 Las Vegas, NV  
[www.impact-net.org](http://www.impact-net.org)

**APRIL 8-14, 2019**



**Bauma (Munich)**  
 Munich, Germany  
[www.bauma.de](http://www.bauma.de)

**APRIL 11, 2019**



**ESTA Awards of Excellence**  
 Munich, Germany  
[www.khl-group.com/events/esta/](http://www.khl-group.com/events/esta/)

**APRIL 7-10, 2019**



**AWRF General Meeting and PIE**  
 Cleveland, OH  
[www.awrf.org](http://www.awrf.org)

**APRIL 23-27, 2019**



**SC&RA Annual Conference**  
 Carlsbad, CA  
[www.scranet.org](http://www.scranet.org)

**MAY 9, 2019**



**Lift & Move USA**  
 Webster, NY  
[www.liftandmoveusa.com](http://www.liftandmoveusa.com)

**MAY 14-16, 2019**



**ACRP General Assembly**  
 Lexington, KY  
[www.acrp.net](http://www.acrp.net)

**MAY 20-23, 2019**



**AWEA Wind Power**  
 Houston, TX  
[www.windpowerexpo.org](http://www.windpowerexpo.org)



**MAY 30, 2019**



**Lift & Move USA**  
 Vaughan, Ontario, Canada  
[www.liftandmoveusa.com](http://www.liftandmoveusa.com)

**JUNE 5-8, 2019**



**Crane Rental Association of Canada (CRAC) Conference and General Meeting**  
 Charlottetown, PE  
[www.crac-aclg.ca](http://www.crac-aclg.ca)

**JUNE 26-27, 2019**



**International Tower Crane (ITC) Conference**  
 Vienna, Austria  
[www.khl-itc.com](http://www.khl-itc.com)

**SEPTEMBER 18-20, 2019**



**SC&RA Crane and Rigging Workshop**  
 Glendale, AZ  
[www.scranet.org](http://www.scranet.org)





## events



OCTOBER 8-10, 2019



**Breakbulk Americas**  
Houston, TX  
www.breakbulk.com

OCTOBER 16, 2019



**Lift & Move USA**  
Longview, TX  
www.liftandmoveusa.com

OCTOBER 27-30, 2019



**AWRF Fall General Meeting**  
San Diego, CA  
www.awrf.org

NOVEMBER 6, 2019



**Lift & Move USA**  
Houston, TX  
www.liftandmoveusa.com

NOVEMBER 13-14, 2019



**World Crane and Transport Summit**  
Amsterdam, Netherlands  
www.khl-group.com/events/wcts

NOVEMBER 19-21, 2019

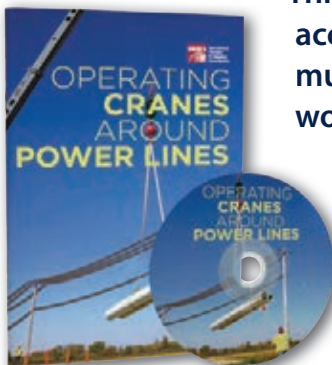


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These tables and conversions are provided to help readers with comparisons between U.S., Imperial (U.K.) and metric measurements

# Conversion

The crane marketplace is truly a global one, although there are still regulations and other issues that complicate the ability for there to be a truly “global” crane. Most of the major manufacturers produce cranes

for markets around the world, but for the sake of the *ACT Sourcebook*, we only include cranes that are marketed in North America.

In the global marketplace, the metric system is standard for determining crane capacity and related information. However, in North America, most owners and users still look to the Imperial system for their measurements. However, crane manufacturers have begun to see the benefit of using one system to market their cranes, and more American crane owners have begun to accept the metric system as the new standard.

However, the conversion process is still necessary in many cases.

In the *ACT Sourcebook 2019*, we have

The key figures printed in the center column can be read as either metric or imperial. example: 1 meter = 1.094 yards or 1 yard = 0.914 meters. <sup>Imp</sup>= Imperial

## LENGTH

1 millimeter (mm)	=	0.0394 inches
1 meter (m) (1000 mm)	=	1.0936 yards
1 kilometer (km) (1000 m)	=	0.5214 mile
1 inch	=	25.4 mm
1 yard (36 inches)	=	0.9144 m
1 mile (1760 yards)	=	1.6093 km

## AREA

1 square meter (m <sup>2</sup> ) (10000 cm <sup>2</sup> )	=	1.1960 square yards
1 hectare (he) (10000 m <sup>2</sup> )	=	2.4711 acres
1 square km (km <sup>2</sup> ) (100 hectares)	=	0.3851 square mile
1 square yard (9 square feet)	=	0.8361 m <sup>2</sup>
1 acre (4840 yards <sup>2</sup> )	=	4046.9 m <sup>2</sup>

## VOLUME

1 cubic meter (m <sup>3</sup> )	=	1.3080 cubic yards
1 liter (l)	=	0.2200 gallon
1 cubic yard (27 cubic feet)	=	0.7646 meter
1 pint (4 gills)	=	0.5683 liter
1 gallon (8 pints)	=	4.5401 liter

## HEAT

1 British Thermal Unit (BTU)	=	1,055 joules
1 BTU/lb	=	2.326 kilojoules/kg

## WEIGHT

1 gram (g) (1000 mg)	=	0.0353 oz
1 pound (lb) (16 ounces)	=	0.4536 kg
1 ton (2,240 pounds)	=	1.0161 tonnes
1 US ton	=	2,000 lbs
1 metric tonne	=	2,200 lbs
1 hundred weight (cwt)	=	112 lb

## POWER

1 horsepower (hp)	=	746 watts (0.75 kW)
1 kilowatt (kW)	=	1.34 hp

## PRESSURE

1 bar (atmosphere)	=	14.2 psi
1 pound/inch <sup>2</sup> (psi)	=	6895 N/m <sup>2</sup>
1 (Newton/m <sup>2</sup> ) Nm <sup>2</sup>	=	1 pascal (Pa)
20 lb/in <sup>2</sup>	=	1.41 kg/cm <sup>2</sup>

## USA WET MEASURE EQUIVALENTS

1 US pint (16 fl oz) (0.8327 UK pt)	=	0.4732 liter
1 US gallon (0.8327 UK gal)	=	3.7653 liters
1 US barrel	=	5.62 ft <sup>3</sup> = 0.159 m <sup>3</sup>

Inches (")	Millimeters (mm)	
0.039	1	25.4
0.079	2	50.8
0.118	3	76.2
0.157	4	101.6
0.197	5	127.0
0.236	6	152.4
0.276	7	177.8
0.315	8	203.2
0.354	9	228.6

Square Feet (ft <sup>2</sup> )	Square Meters (m <sup>2</sup> )	
10.764	1	0.093
21.528	2	0.186
32.292	3	0.279
43.056	4	0.372
53.819	5	0.465
64.583	6	0.557
75.347	7	0.650
86.111	8	0.743
96.875	9	0.836

Ounces (oz)	Grams (g)	
0.035	1	28.350
0.071	2	56.699
0.106	3	85.049
0.141	4	113.398
0.176	5	141.748
0.212	6	170.097
0.247	7	198.447
0.282	8	226.796
0.317	9	255.146



# tables

ranked the crane categories four different ways. In the mobile and crawler crane categories, we have ranked the cranes listed by metric tons and U.S. tons. In the boom truck category we ranked the cranes by U.S. tons only. In the industrial and articulating crane categories, we have ranked the machines by pounds, metric tons and U.S. tons. In the tower crane category, we have ranked crane capacities by ton meters. We are providing the conversion tables as a matter of convenience.

Please do not use the conversions in important technical or safety calculations as they are designed as a guide to converting figures, not as a definitive listing.

For Manitowoc, Link Belt and other cranes manufactured for the North American market, model names often indicate the lifting capacity of the crane in U.S. tons.

## SPEED

<b>Miles per hour (mph)</b>	<b>20</b>	<b>30</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>80</b>	<b>90</b>	<b>100</b>
<b>Kilometer per hour (km/h)</b>	<b>32</b>	<b>48</b>	<b>64</b>	<b>80</b>	<b>96</b>	<b>112</b>	<b>128</b>	<b>144</b>	<b>160</b>

## FUEL

<b>Gallons (US)</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>
<b>Liters</b>	<b>3.78</b>	<b>7.54</b>	<b>15.14</b>	<b>22.71</b>	<b>30.28</b>	<b>37.85</b>	<b>45.45</b>	<b>53.00</b>
<b>Gallons (UK)</b>	<b>1</b>	<b>2</b>	<b>4</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>
<b>Liters</b>	<b>4.55</b>	<b>9.09</b>	<b>18.18</b>	<b>27.27</b>	<b>36.37</b>	<b>45.46</b>	<b>54.54</b>	<b>63.64</b>

## WEIGHT

<b>Pounds</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>10</b>	<b>14</b>	<b>20</b>
<b>Kilograms</b>	<b>0.454</b>	<b>0.907</b>	<b>1.361</b>	<b>1.814</b>	<b>2.268</b>	<b>4.536</b>	<b>6.350</b>	<b>9.072</b>

## TEMPERATURE

<b>°F</b>	<b>32</b>	<b>40</b>	<b>50</b>	<b>60</b>	<b>70</b>	<b>75</b>	<b>85</b>	<b>95</b>	<b>105</b>	<b>140</b>	<b>175</b>	<b>212</b>
<b>°C</b>	<b>0</b>	<b>5</b>	<b>10</b>	<b>15</b>	<b>20</b>	<b>25</b>	<b>30</b>	<b>35</b>	<b>40</b>	<b>60</b>	<b>80</b>	<b>100</b>

<b>Miles</b>	<b>Kilometers (km)</b>	
0.621	1	1.609
1.243	2	3.219
1.864	3	4.828
2.485	4	6.437
3.105	5	8.047
3.728	6	9.656
4.350	7	11.265
4.971	8	12.875
5.592	9	14.484

<b>Feet (')</b>	<b>Meters (m)</b>	
3.281	1	0.305
6.562	2	0.610
9.843	3	0.914
13.123	4	1.219
16.404	5	1.514
19.685	6	1.829
22.966	7	2.134
26.247	8	2.438
29.528	9	2.743

<b>Yards (yd)</b>	<b>Meters (m)</b>	
1.094	1	0.914
2.187	2	1.829
3.281	3	2.743
4.375	4	3.658
5.468	5	4.572
6.564	6	5.486
7.658	7	6.401
8.752	8	7.315
9.846	9	8.230

<b>Square Yards (yd<sup>2</sup>)</b>	<b>Square Meters (m<sup>2</sup>)</b>	
1.196	1	0.836
2.392	2	1.672
3.588	3	2.508
4.784	4	3.345
5.980	5	4.181
7.176	6	5.017
8.372	7	5.853
9.568	8	6.689
10.764	9	7.525

<b>Cubic Feet (ft<sup>3</sup>)</b>	<b>Cubic Meters (m<sup>3</sup>)</b>	
35.315	1	0.028
70.629	2	0.057
105.943	3	0.085
141.258	4	0.113
176.572	5	0.147
211.887	6	0.170
247.201	7	0.198
282.516	8	0.227
317.830	9	0.255

<b>Cubic Yards (yd<sup>3</sup>)</b>	<b>Cubic Meters (m<sup>3</sup>)</b>	
1.308	1	0.765
2.616	2	1.529
3.924	3	2.294
5.232	4	3.058
6.540	5	3.823
7.848	6	4.587
9.156	7	5.352
10.464	8	6.117
11.772	9	6.881

<b>Pounds (lb)</b>	<b>Kilograms (kg)</b>	
2.205	1	0.454
4.409	2	0.907
6.614	3	1.361
8.819	4	1.814
11.023	5	2.268
13.226	6	2.722
15.432	7	3.175
17.637	8	3.629
19.842	9	4.082

<b>Gallons (gall) °Imp(UK)</b>	<b>Liters (l)</b>	
0.220	1	4.544
0.440	2	9.087
0.660	3	13.631
0.880	4	18.174
1.101	5	22.718
1.321	6	27.262
1.541	7	31.805
1.761	8	36.349
1.981	9	40.892

<b>Pints (pt) °Imp(UK)</b>	<b>Liters (l)</b>	
1.761	1	0.568
3.521	2	1.136
5.282	3	1.704
7.043	4	2.272
8.804	5	2.840
10.564	6	3.406
12.325	7	3.976
14.086	8	4.544
15.847	9	5.112



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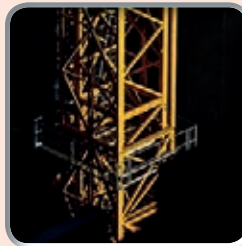
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## ALL TERRAINS BY MANUFACTURER

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Onroad Axle Loading (t/axle)	Engine Power (kW)	Capacity US tons
Demag	AC 45 City	40	0.6@38	31.2	13	44.2	3	53	n/s	260	50
Demag	AC 55-3	55	0.8@38	50	0	50	3	53	n/s	260	60
Demag	AC 60-3	60	0.7@46	50	16	66	3	53	n/s	260	65
Demag	AC 100-4(L)	100	1.2@50	59.4	27	81.6	4	53	n/s	340	120
Demag	AC 130-5	130	1.7@54	59.8	26.5	86.5	5	53	n/s	368	140
Demag	AC 160-5	160	1.7@58	68	33	101	5	53	n/s	368	180
Demag	AC 220-5	220	1.8@70	78	21	99	5	53	n/s	368	245
Demag	AC 250-5	250	1.9@66	70	33	101.8	5	53	n/s	368	300
Demag	AC 300-6	300	2.2@74	80	63	116.3	6	53	n/s	430	350
Demag	AC 350-6	350	1.9@90	64	72	125.7	6	53	n/s	450	400
Demag	AC 500-8	500	2.2@110	56	90	145.8	8	47	n/s	480	600
Demag	AC 700-9	700	3.8@110	60	96	149.5	9	47	n/s	460	800
Demag	AC 1000-9	1200	2.7@130	100	126	163.3	9	53	n/s	480	1,320
Grove	GMK3060	60	0.6@48.0	43	15	60.7	3	53	n/a	260	65
Grove	GMK4090	90	0.7@58.0	51	15	n/s	4	n/s	n/a	320	100
Grove	GMK4100L-1	100	0.8@62.0	60	25.6	89	4	53	n/a	320	115
Grove	GMK5150	150	0.9@76.0	51	33.8	88	5	53	n/a	390	175
Grove	GMK5150L	150	0.9@74.0	60	33.8	97	5	53	n/a	390	175
Grove	GMK5180-1	180	1.1@76.0	64	34	101	5	53	n/a	390	210
Grove	GMK5200-1	200	1.0@84.0	64	34	101	5	53	n/a	390	240
Grove	GMK5250L	250	0.9@88.0	70	37	110	5	53	n/a	390	300
Grove	GMK6300L-1	300	0.9@94.0	80	37	120	6	53	n/a	430	350
Grove	GMK6400	400	2.6@96.0	60	79	137	6	53	n/a	405	450
Grove	GMK7450/GMK7550	450	9.9@56.0	60	79	136	7	53	n/a	420	550
Liebherr	LTM 1030-2.1	35	0.4@40	30	15	44	2	50	12	210	40
Liebherr	LTM 1040-2.1	40@2.5	0.4@39	35	9.5	44	2	50	12	210	45
Liebherr	LTC 1050-3.1	50	0.7@39	36	13	48	3	53	12	260	50
Liebherr	LTM 1050-3.1	50	0.6@44	38	16	54	3	53	12	270	60
Liebherr	LTM 1055-3.2	55@2.5	0.9@46	40	16	56	3	53	12	270	65
Liebherr	LTM 1060-3.1	60@2.1	0.9@48	48	16	63	3	53	12	270	70
Liebherr	LTM 1070-4.2	70@2.5	0.7@48	50	16	65	4	53	12	300	80
Liebherr	LTM 1090-4.2	90	0.7@62	60	16	76	4	53	12	330	110
Liebherr	LTM 1095-5.1	95	0.8@60	58	26	82	5	53	12	370	115
Liebherr	LTM 1100-4.2	100	0.8@58	60	33	91	4	53	12	350	120
Liebherr	LTM 1100-5.2	100@2.7	0.8@66	52	33	84	5	53	12	370	120
Liebherr	LTM 1130-5.1	130	0.9@72	60	33	91	5	53	12	400	155
Liebherr	LTM 1160-5.2	180@2.5	0.7@78	62	40	99	5	53	12	400	190
Liebherr	LTM 1200-5.1	200	1.3@80	72	36	101	5	53	12	370	240
Liebherr	LTM 1230-5.1	230	1.5@72	75	43	110	5	53	12	400	275
Liebherr	LTM 1250-5.1	250	1.1@96	60	50	108	5	53	12	400	300
Liebherr	LTM 1300-6.2	300	1.1@94	78	70	114	6	53	12	450	360
Liebherr	LTM 1350-6.1	350	2@96	70	78	134	6	53	12	450	400
Liebherr	LTM 1400-7.1	400	1.5@100	60	84	130	7	53	12	450	500
Liebherr	LTM 1450-8.1	450	2.5@100	85	84	131	8	53	12	505	550
Liebherr	LTM 1500-8.1	500	3.6@108	84	91	142	8	53	12	500	600
Liebherr	LTM 1750-9.1	750	4.3@112	52	91	154	9	53	12	505	900
Liebherr	LTM 11200-9.1	1,200@2.5	1.9@136	100	126	188	9	47	12	500	1,500
Link-Belt	175IAT	150@2.1	0.5@73.1	60.1	33.2	96.1	5	55	12	432	175
Link-Belt	ATC-3210	136	3.2@56	61	35.6	93.7	5	62	n/s	421	210
Link-Belt	ATC-3275	250	3.45@62	68	35.6	100.7	5	62	n/s	421	275
Tadano	ATF 60G-3	60@2.5	0.6@44	48	7.4	58.4	3	52	12	260	65
Tadano	ATF 70G-4 (44m)	70@2.5	0.68@50	44	16	61	4	52	12	320	75
Tadano	ATF 70G-4 (52.1m)	70@2.5	0.68@46	52.1	16	69.5	4	52	12	320	75
Tadano	ATF 100G-4	100@2.3	0.68@56	51.2	18	71	4	52	12	320	110
Tadano	ATF 110G-5	110@3.0	1.08@68	52	32	87.5	5	52	12	390	130
Tadano	ATF 130G-5	130@2.7	1.08@72	60	32	95	5	52	12	390	160
Tadano	ATF 200G-5	200@2.7	1.17@80	60	36	99.5	5	52	12	390	220
Tadano	ATF 220G-5	220@2.5	1.31@84	68	35.8	107.5	5	52	12	390	250
Tadano	ATF 400G-6	400@2.7	2.09@86.1	60	78.5	125	6	52	12	460	450



## ALL TERRAINS BY CAPACITY

Manufacturer	Model	Maximum Load @ 3m (t)	Load at Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Main Boom Extension (m)	Maximum Hook Height (m)	Number of Axles (#)	Maximum Travel Speed (mph)	Onroad Axle Loading (t/axle)	Engine Power (kW)	Capacity US tons
Liebherr	LTM 1030-2.1	35	0.4@40	30	15	44	2	50	12	210	40
Liebherr	LTM 1040-2.1	40@2.5	0.4@39	35	9.5	44	2	50	12	210	45
Demag	AC 45 City	40	0.6@38	31.2	13	44.2	3	53	n/s	260	50
Liebherr	LTC 1050-3.1	50	0.7@39	36	13	48	3	53	12	260	50
Demag	AC 55-3	55	0.8@38	50	0	50	3	53	n/s	260	60
Liebherr	LTM 1050-3.1	50	0.6@44	38	16	54	3	53	12	270	60
Demag	AC 60-3	60	0.7@46	50	16	66	3	53	n/s	260	65
Grove	GMK3060	60	0.6@48.0	43	15	60.7	3	53	n/a	260	65
Liebherr	LTM 1055-3.2	55@2.5	0.9@46	40	16	56	3	53	12	270	65
Tadano	ATF 60G-3	60@2.5	0.6@44	48	7.4	58.4	3	52	12	260	65
Liebherr	LTM 1060-3.1	60@2.1	0.9@48	48	16	63	3	53	12	270	70
Tadano	ATF 70G-4 (44m)	70@2.5	0.68@50	44	16	61	4	52	12	320	75
Tadano	ATF 70G-4 (52.1m)	70@2.5	0.68@46	52.1	16	69.5	4	52	12	320	75
Liebherr	LTM 1070-4.2	70@2.5	0.7@48	50	16	65	4	53	12	300	80
Grove	GMK4090	90	0.7@58.0	51	15	n/s	4	n/s	n/a	320	100
Liebherr	LTM 1090-4.2	90	0.7@62	60	16	76	4	53	12	330	110
Tadano	ATF 100G-4	100@2.3	0.68@56	51.2	18	71	4	52	12	320	110
Grove	GMK4100L-1	100	0.8@62.0	60	25.6	89	4	53	n/a	320	115
Liebherr	LTM 1095-5.1	95	0.8@60	58	26	82	5	53	12	370	115
Demag	AC 100-4(L)	100	1.2@50	59.4	27	81.6	4	53	n/s	340	120
Liebherr	LTM 1100-4.2	100	0.8@58	60	33	91	4	53	12	350	120
Liebherr	LTM 1100-5.2	100@2.7	0.8@66	52	33	84	5	53	12	370	120
Tadano	ATF 110G-5	110@3.0	1.08@68	52	32	87.5	5	52	12	390	130
Demag	AC 130-5	130	1.7@54	59.8	26.5	86.5	5	53	n/s	368	140
Liebherr	LTM 1130-5.1	130	0.9@72	60	33	91	5	53	12	400	155
Tadano	ATF 130G-5	130@2.7	1.08@72	60	32	95	5	52	12	390	160
Grove	GMK5150	150	0.9@76.0	51	33.8	88	5	53	n/a	390	175
Grove	GMK5150L	150	0.9@74.0	60	33.8	97	5	53	n/a	390	175
Link-Belt	175IAT	150@2.1	0.5@73.1	60.1	33.2	96.1	5	55	12	432	175
Demag	AC 160-5	160	1.7@58	68	33	101	5	53	n/s	368	180
Liebherr	LTM 1160-5.2	180@2.5	0.7@78	62	40	99	5	53	12	400	190
Grove	GMK5180-1	180	1.1@76.0	64	34	101	5	53	n/a	390	210
Link-Belt	ATC-3210	136	3.2@56	61	35.6	93.7	5	62	n/s	421	210
Tadano	ATF 200G-5	200@2.7	1.17@80	60	36	99.5	5	52	12	390	220
Grove	GMK5200-1	200	1.0 @84.0	64	34	101	5	53	n/a	390	240
Liebherr	LTM 1200-5.1	200	1.3@80	72	36	101	5	53	12	370	240
Demag	AC 220-5	220	1.8@70	78	21	99	5	53	n/s	368	245
Tadano	ATF 220G-5	220@2.5	1.31@84	68	35.8	107.5	5	52	12	390	250
Liebherr	LTM 1230-5.1	230	1.5@72	75	43	110	5	53	12	400	275
Link-Belt	ATC-3275	250	3.45@62	68	35.6	100.7	5	62	n/s	421	275
Demag	AC 250-5	250	1.9@66	70	33	101.8	5	53	n/s	368	300
Grove	GMK5250L	250	0.9@88.0	70	37	110	5	53	n/a	390	300
Liebherr	LTM 1250-5.1	250	1.1@96	60	50	108	5	53	12	400	300
Demag	AC 300-6	300	2.2@74	80	63	116.3	6	53	n/s	430	350
Grove	GMK6300L-1	300	0.9@94.0	80	37	120	6	53	n/a	430	350
Liebherr	LTM 1300-6.2	300	1.1@94	78	70	114	6	53	12	450	360
Demag	AC 350-6	350	1.9@90	64	72	125.7	6	53	n/s	450	400
Liebherr	LTM 1350-6.1	350	2@96	70	78	134	6	53	12	450	400
Grove	GMK6400	400	2.6@96.0	60	79	137	6	53	n/a	405	450
Tadano	ATF 400G-6	400@2.7	2.09@86.1	60	78.5	125	6	52	12	460	450
Liebherr	LTM 1400-7.1	400	1.5@100	60	84	130	7	53	12	450	500
Grove	GMK7450/GMK7550	450	9.9@56.0	60	79	136	7	53	n/a	420	550
Liebherr	LTM 1450-8.1	450	2.5@100	85	84	131	8	53	12	505	550
Demag	AC 500-8	500	2.2@110	56	90	145.8	8	47	n/s	480	600
Liebherr	LTM 1500-8.1	500	3.6@108	84	91	142	8	53	12	500	600
Demag	AC 700-9	700	3.8@110	60	96	149.5	9	47	n/s	460	800
Liebherr	LTM 1750-9.1	750	4.3@112	52	91	154	9	53	12	505	900
Demag	AC 1000-9	1200	2.7@130	100	126	163.3	9	53	n/s	480	1,320
Liebherr	LTM 11200-9.1	1,200@2.5	1.9@136	100	126	188	9	47	12	500	1,500

## ROUGH TERRAINS BY MANUFACTURER

Manufacturer	Model	Load at		Maximum	Maximum	Maximum Hook Height (feet)	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Main Boom (m)	Main Boom Extension (m)					
Broderson	RT-400	20	3600 lbs @ 68 ft	n/s	n/s	98	2	24	122	20
Grove	RT530E-2	30	0.67@34.0	29	13.7	45	2	25	122	30
Grove	RT540E	32.7	0.67@36.0	31	13.7	47	2	25	122	40
Grove	GRT655	40.9	0.52@44.0	34.8	13.7	51.8	2	18.8	122	55
Grove	GRT655L	40.5	0.65@42.0	43	13.7	59.7	2	18.8	122	55
Grove	RT765E-2	60	0.94@44.0	33.5	17.1	65.2	2	23	194	65
Grove	RT770E	60	0.53@48.0	42	23.2	67.3	2	23	194	70
Grove	GRT880	73	0.69@50.0	41.1	23.1	68	2	15	205	80
Grove	GRT8100	81.5	0.53@52.0	47	23.1	72.9	2	15	205	100
Grove	RT9130E-2	120	0.77@56.0	48.6	34	85	2	15	239	130
Grove	RT9150E	99	1.20@68.0	60	32	95.3	2	15	239	150
Liebherr	LRT 1090-2.1	90	0.9@50	47	19	66	2	15.5	194	100
Liebherr	LRT 1100-2.1	100	0.6@54	50	19	69	2	15.5	194	110
Link-Belt	RTC-8050 Series II	50@2.5	1.40@30	33.5	15.5	48.6	2	20	145	50
Link-Belt	RTC-8065 Series II	60@2.5	1.55@32	35	27.4	61.9	2	23.1	201	65
Link-Belt	75RT	70@2.5	0.6@38	43.3	17.7	63.6	2	20.8	201	75
Link-Belt	RTC-8090 Series II	80@2.5	1.9@40	42.7	27.4	69.8	2	18.2	201	90
Link-Belt	100RT	90@2.1	0.9@44	47.2	22.6	72.3	2	15 (full CTWT)	173	100
Link-Belt	110RT	100@2.1	0.8@46	50	27.4	77.5	2	17.8	201	110
Link-Belt	RTC-80110 Series II	100@3m	1.45@42	45.7	27.8	73.6	3	18.5	257	110
Link-Belt	RTC-80130 Series II	120@2.5	2.45@46	49.3	33.3	82.1	3	17	257	130
Link-Belt	RTC-80160 Series II	145@2.1	1.4@56	59.5	33.3	92	3	15	257	160
Tadano	GR-350XL	31.8@2.4	0.9@28	31	12.8	144.3	2	31	175	35
Tadano	GR-550XL	50@2.4	0.75@34	34.7	15.2	164.3	2	31	201	55
Tadano	GR-750XL	68@2.4	0.8@38	43	17.7	198.9	2	22	201	75
Tadano	GR-1000XL	90.7@2.4	0.9@40	47	17.7	211.3	2	22	201	100
Tadano	GR-1200XL	110@2.5	1.8@56	56	17.7	241.4	2	12	201	120
Tadano	GR-1600XL	145@2.5	1.8@56	61	18	257.2	3	9.3	201	160
Terex	RT 35-1	35	0.4@27	30.1	32.8	125	2	18.7	119	38.5
Terex	RT 45	45	0.7&29	31.1	33	148	2	19.6	129	49.6
Terex	RT 45L	45	0.55@36	37.4	39.5	149	2	19.6	129	49.6
Terex	RT 555	50	0.45@43.3	33.5	35	152	2	22.8	138	55
Terex	RT 670	63.5	0.4@48.8	33.8	35.1	170	2	23.4	164	70
Terex	Quadstar 1065	65	0.2@43	32.4	35	171	2	18	164	71
Terex	RT 780	72.6	0.5@49.4	38.4	40.8	190	2	25	194	80
Terex	RT 90	86	0.8@42	47	50	164	2	17	168	95
Terex	RT 100US	90	0.45@52	47	50	210	2	17	168	100
Terex	RT 100	90	0.2@55	53	55.8	223	2	18.6	195	100
Terex	Quadstar 1100	100.5	0.75@55	47.2	50	235	2	18.7	194	110
Terex	RT 130	118	0.65@55.2	47.2	50	218	2	20.4	224	130
Terex	Quadstar 1075	75	0.2@43	41.8	37	202.8	2	18	164	82.7
Terex	Quadstar 1075L	75	0.35@42	42.1	45	202.8	2	18	164	82.7
Zoomlion	RT35	35	1.23@29	31	15	41	2	38	129	40
Zoomlion	RT60	55	1.17@33.5	43	17	61.4	2	41.4	160	65



## ROUGH TERRAINS BY CAPACITY

Manufacturer	Model	Load at		Maximum	Maximum	Maximum	Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Main Boom (m)	Main Boom Extension (m)	Maximum Hook Height (feet)				
Broderson	RT-400	20	3600 lbs @ 68 ft	n/s	n/s	98	2	24	122	20
Grove	RT530E-2	30	0.67@34.0	29	13.7	45	2	25	122	30
Tadano	GR-350XL	31.8@2.4	0.9@28	31	12.8	144.3	2	31	175	35
Terex	RT 35-1	35	0.4@27	30.1	32.8	125	2	18.7	119	38.5
Grove	RT540E	32.7	0.67@36.0	31	13.7	47	2	25	122	40
Zoomlion	RT35	35	1.23@29	31	15	41	2	38	129	40
Terex	RT 45	45	0.7&29	31.1	33	148	2	19.6	129	49.6
Terex	RT 45L	45	0.55@36	37.4	39.5	149	2	19.6	129	49.6
Link-Belt	RTC-8050 Series II	50@2.5	1.40@30	33.5	15.5	48.6	2	20	145	50
Grove	GRT655	40.9	0.52@44.0	34.8	13.7	51.8	2	18.8	122	55
Grove	GRT655L	40.5	0.65@42.0	43	13.7	59.7	2	18.8	122	55
Tadano	GR-550XL	50@2.4	0.75@34	34.7	15.2	164.3	2	31	201	55
Terex	RT 555	50	0.45@43.3	33.5	35	152	2	22.8	138	55
Grove	RT765E-2	60	0.94@44.0	33.5	17.1	65.2	2	23	194	65
Link-Belt	RTC-8065 Series II	60@2.5	1.55@32	35	27.4	61.9	2	23.1	201	65
Zoomlion	RT60	55	1.17@33.5	43	17	61.4	2	41.4	160	65
Grove	RT770E	60	0.53@48.0	42	23.2	67.3	2	23	194	70
Terex	RT 670	63.5	0.4@48.8	33.8	35.1	170	2	23.4	164	70
Terex	Quadstar 1065	65	0.2@43	32.4	35	171	2	18	164	71
Link-Belt	75RT	70@2.5	0.6@38	43.3	17.7	63.6	2	20.8	201	75
Tadano	GR-750XL	68@2.4	0.8@38	43	17.7	198.9	2	22	201	75
Grove	GRT880	73	0.69@50.0	41.1	23.1	68	2	15	205	80
Terex	RT 780	72.6	0.5@49.4	38.4	40.8	190	2	25	194	80
Terex	Quadstar 1075	75	0.2@43	41.8	37	202.8	2	18	164	82.7
Terex	Quadstar 1075L	75	0.35@42	42.1	45	202.8	2	18	164	82.7
Link-Belt	RTC-8090 Series II	80@2.5	1.9@40	42.7	27.4	69.8	2	18.2	201	90
Terex	RT 90	86	0.8@42	47	50	164	2	17	168	95
Grove	GRT8100	81.5	0.53@52.0	47	23.1	72.9	2	15	205	100
Liebherr	LRT 1090-2.1	90	0.9@50	47	19	66	2	15.5	194	100
Link-Belt	100RT	90@2.1	0.9@44	47.2	22.6	72.3	2	15 (full CTWT)	173	100
Tadano	GR-1000XL	90.7@2.4	0.9@40	47	17.7	211.3	2	22	201	100
Terex	RT 100US	90	0.45@52	47	50	210	2	17	168	100
Terex	RT 100	90	0.2@55	53	55.8	223	2	18.6	195	100
Liebherr	LRT 1100-2.1	100	0.6@54	50	19	69	2	15.5	194	110
Link-Belt	110RT	100@2.1	0.8@46	50	27.4	77.5	2	17.8	201	110
Link-Belt	RTC-80110 Series II	100@3	1.45@42	45.7	27.8	73.6	3	18.5	257	110
Terex	Quadstar 1100	100.5	0.75@55	47.2	50	235	2	18.7	194	110
Tadano	GR-1200XL	110@2.5	1.8@56	56	17.7	241.4	2	12	201	120
Grove	RT9130E-2	120	0.77@56.0	48.6	34	85	2	15	239	130
Link-Belt	RTC-80130 Series II	120@2.5	2.45@46	49.3	33.3	82.1	3	17	257	130
Terex	RT 130	118	0.65@55.2	47.2	50	218	2	20.4	224	130
Grove	RT9150E	99	1.20@68.0	60	32	95.3	2	15	239	150
Link-Belt	RTC-80160 Series II	145@2.1	1.4@56	59.5	33.3	92	3	15	257	160
Tadano	GR-1600XL	145@2.5	1.8@56	61	18	257.2	3	9.3	201	160

## TRUCK CRANES BY MANUFACTURER

Manufacturer	Model	Load at		Maximum			Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Extension (m)	Maximum Hook Height (m)				
Grove	TMS700E	55	1.7@30	33.5	29.3	64.6	4	65	336	60
Grove	TMS800E	70	1.7@36	39	29.3	70.1	4	65	336	80
Grove	TMS9000-2	104	1.7@48.8	51.6	25.6	80.3	4	65	336	115
Liebherr	LTF 1045-4.1	45@2.5	0.8@42	35	9.5	44	4	n/s	n/s	55
Liebherr	LTF 1060-4.1	60@2.5	0.7@48	40	16	56	4	n/s	n/s	70
Link-Belt	HTC-8660 Series II	45.36	1.2@30	33.5	15.5	46.4	4	60.69	276	60
Link-Belt	HTC/HTT-8675 Series II	64.25	1.45@36	38.7	29.26	65.17	4	62.9	336	75
Link-Belt	HTC/HTT-86100	72.65	2.35@40	42.7	27.5	67.3	4	62.9	336	100
Link-Belt	HTC/HTT-86110	85	1.9@46	50	27.5	76.9	4	62	336	110
Link-Belt	HTC-3140	110	2.85@46	49.4	33.2	79.83	5	65.62	434	140
Link-Belt	HTC-3140LB	120	0.95@56	59.5	33.2	89.93	5	65.62	434	140
Terex	T 340-1	36.3	0.95@26	28.7	14.9	44.8	3	60	224	40
Terex	T 340-1 XL	36.3	0.55@30	32	14.9	48.2	3	60	224	40
Terex	T 560-1	54	1.25@32	33.5	17.4	52	4	65	335	60
Terex	T 780	72	1.6@36	38.4	17.4	57.6	4	65	335	80

## TRUCK CRANES BY CAPACITY

Manufacturer	Model	Load at		Maximum			Number of Axles (#)	Maximum Travel Speed (mph)	Engine Power (kW)	Capacity US tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Maximum Main Boom (m)	Maximum Extension (m)	Maximum Hook Height (m)				
Terex	T 340-1	36.3	0.95@26	28.7	14.9	44.8	3	60	224	40
Terex	T 340-1 XL	36.3	0.55@30	32	14.9	48.2	3	60	224	40
Liebherr	LTF 1045-4.1	45@2.5	0.8@42	35	9.5	44	4	n/s	n/s	55
Grove	TMS700E	55	1.7@30	33.5	29.3	64.6	4	65	336	60
Link-Belt	HTC-8660 Series II	45.36	1.2@30	33.5	15.5	46.4	4	60.69	276	60
Terex	T 560-1	54	1.25@32	33.5	17.4	52	4	65	335	60
Liebherr	LTF 1060-4.1	60@2.5	0.7@48	40	16	56	4	n/s	n/s	70
Link-Belt	HTC/HTT-8675 Series II	64.25	1.45@36	38.7	29.26	65.17	4	62.9	336	75
Grove	TMS800E	70	1.7@36	39	29.3	70.1	4	65	336	80
Terex	T 780	72	1.6@36	38.4	17.4	57.6	4	65	335	80
Link-Belt	HTC/HTT-86100	72.65	2.35@40	42.7	27.5	67.3	4	62.9	336	100
Link-Belt	HTC/HTT-86110	85	1.9@46	50	27.5	76.9	4	62	336	110
Grove	TMS9000-2	104	1.7@48.8	51.6	25.6	80.3	4	65	336	115
Link-Belt	HTC-3140	110	2.85@46	49.4	33.2	79.83	5	65.62	434	140
Link-Belt	HTC-3140LB	120	0.95@56	59.5	33.2	89.93	5	65.62	434	140



## BOOM TRUCKS BY MANUFACTURER

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Altec	AC18-70B	121	70	40	A-type	18
Altec	AC18-70B-HL	121	70	40	A-type	18
Altec	AC18-70B-HL	121	70	40	Out-and-Down	18
Altec	AC18-70R-HL	121	70	40	A-type	18
Altec	AC18-70R-HL	121	70	40	Out-and-Down	18
Altec	AC23-95B	150	95	44	Out-and-Down	23.5
Altec	AC23-95R	150	95	44	Out-and-Down	23.5
Altec	AC23-95S	150	95	44	Out-and-Down	23.5
Altec	AC26-103B	159	103	44	A-type	26
Altec	AC26-103B	159	103	44	Out-and-Down	26
Altec	AC26-103R	159	103	44	A-type	26
Altec	AC26-103S	156	103	44	Out-and-Down	26
Altec	AC28-103B	159	103	44	A-type	28
Altec	AC28-103B	159	103	44	Out-and-Down	28
Altec	AC30-103S	156	103	44	Out-and-Down	30
Altec	AC38-103S	167	103	55	Out-and-Down	38
Altec	AC38-103S-XHL	167	103	55	Out-and-Down	38
Altec	AC38-127S	189	127	55	Out-and-Down	38
Altec	AC38-127S-HL	189	127	55	Out-and-Down	38
Altec	AC38-127S-L	136	127	n/s	Out-and-Down	38
Altec	AC40-152S	207	152	49	Out-and-Down	40
Altec	AC45-127S	189	127	55	Out-and-Down	45
Elliott Equipment Company	1039	49	39	NA	A-Frame	10
Elliott Equipment Company	1047	57	47	NA	A-Frame	10
Elliott Equipment Company	1056	96	56	18 or 30	A-Frame	10
Elliott Equipment Company	1560	90	60	20	A-Frame	15
Elliott Equipment Company	1838	48	38	NA	A-Frame	18
Elliott Equipment Company	1860	90	60	20	A-Frame	18
Elliott Equipment Company	1870	120	70	23 or 40	A-Frame	18
Elliott Equipment Company	1870CP	120	70	23 or 40	Out-and-Down	18
Elliott Equipment Company	1881TM	91	81	NA	Out-and-Down	18
Elliott Equipment Company	18125	137	125	NA	Out-and-Down	18
Elliott Equipment Company	2651TM	63	51	NA	A-Frame	26
Elliott Equipment Company	2673	85	73	NA	A-Frame	26
Elliott Equipment Company	2695	152	95	26 or 45	A-Frame	26
Elliott Equipment Company	26105	162	105	26 or 45	A-Frame	26
Elliott Equipment Company	3095	148	95	24 or 41	Out-and-Down	30
Elliott Equipment Company	30105	162	105	26 or 45	Out-and-Down	30
Elliott Equipment Company	34127	186	127	49	Out-and-Down	34
Elliott Equipment Company	34142	201	142	49	Out-and-Down	34
Elliott Equipment Company	36127	186	127	49	Out-and-Down	36
Elliott Equipment Company	36142	201	142	49	Out-and-Down	36
Elliott Equipment Company	40105	170	105	32 or 55	Out-and-Down	40
Elliott Equipment Company	40127	192	127	26 or 55	Out-and-Down	40
Elliott Equipment Company	40142	207	142	26 or 55	Out-and-Down	40
Elliott Equipment Company	45105	170	105	32 or 55	Out-and-Down	45
Elliott Equipment Company	45127	192	127	26 or 55	Out-and-Down	45
Elliott Equipment Company	45142	207	142	26 or 55	Out-and-Down	45
Elliott Equipment Company	50105	164	105	32 or 49	Out-and-Down	50
Manitex	1770C	121	27 - 70	23.6 or 40.6	A-Link	17
Manitex	1970C	121	27 - 70	23.6 or 40.6	A-link	19
Manitex	2085T	95	18.9 - 85	N/A	Out-and-Down	20
Manitex	2250C/T	96	20 - 50	20 or 34	A-Link	22
Manitex	2262C/T	115	24 - 62	24 or 42	A-Link	22
Manitex	2277C	140	29 - 77	29 or 52	A-link	22
Manitex	2281C	133	24 - 81	24 or 41	A-link	22
Manitex	2277S	138	29 - 77	29 or 52	Out-and-Down	22
Manitex	22101S tandem axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
Manitex	22101S single axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22

## BOOM TRUCKS BY MANUFACTURER

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Manitex	124WL	135	37 - 124	n/s	A-Link and Out-and-Down	25
Manitex	26101C	142	29 - 101	26	A-link	26
Manitex	2892C	149	28 - 92	26 or 46	A-Link and Out-and-Down	28
Manitex	30112S	168	33 - 112	26 or 46	Out-and-Down	30
Manitex	3071C	82	28 - 71	n/a	A-Link and Out-and-Down	30
Manitex	30102C	157	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	102WL	159	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	30100C	110.6	100	26-46	A-Link and Out-and-Down	30
Manitex	3051T	62	51	NA	A-LINK and Out-and-Down	30
Manitex	3577C	91	30 - 77	n/s	Out-and-Down	35
Manitex	35100C	167	31 - 100	31.6 or 55	Out-and-Down	35
Manitex	35124C	166	31 - 124	31	Out-and-Down	35
Manitex	4077S	87	31 - 77	n/a	Out-and-Down	40
Manitex	4077SHL	87	31 - 77	n/a	Out-and-Down	40
Manitex	40100S	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40100SHL	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40124S	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	40124SHL	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	TC400-127	190	31 - 127	31 - 55	Out-and-Down	40
Manitex	TC400-142	205	34 - 142	31 - 55	Out-and-Down	40
Manitex	TC450-127	190	31 - 127	31 - 55	Out-and-Down	45
Manitex	TC450-142	205	34 - 142	31 - 55	Out-and-Down	45
Manitex	4596T	152	31 - 96	32 or 49	Out-and-Down	45
Manitex	45110T	167.5	110	32 - 49t	Out-and-Down	45
Manitex	TC500-96	152	31 - 96	32 or 49	Out-and-Down	50
Manitex	TC500-110	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-110HL	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-155	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-155HL	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-128	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500-128HL	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	5096S	152	31 - 96	32 or 49	Out-and-Down	50
Manitex	50110S	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	50110SHL	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	50155S	203	38.5 - 155	39	Out-and-Down	50
Manitex	50155SHL	203	38.5 - 155	39	Out-and-Down	50
Manitex	50128S	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	50128SHL	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	5060S	72.5	60	NA	Out-and-Down	50
Manitex	TC700	185	115	31 - 51	Out-and-Down	70
National Crane	400B	66	56	n/s	A-type	10
National Crane	500 E2	121	71	41	A-type	18
National Crane	600 E2	121	90	45	A-type	20
National Crane	600H	99	90	45	Out-and-Down	20
National Crane	800D	152	100	44	A-type	23
National Crane	900A	155	103	44	A-type	26
National Crane	NBT30H-2	119	110	44	Out-and-Down	30
National Crane	1300A	163	110	44	Out-and-Down	30
National Crane	1400H	165	127	30	Out-and-Down	33
National Crane	1400A	172	127	30	Out-and-Down	33
National Crane	NBT 36-1	190	127	55	Out-and-Down	36
National Crane	NBT 40-1	190	142	55	Out-and-Down	40
National Crane	NBT 45-1	206	161	55	Out-and-Down	45
National Crane	NBT 50	179	128	45	X-type	50
National Crane	NBT50L	202	151	45	X-type	50
National Crane	NBT55	179	128	45	X-type	55
National Crane	NBT55L	202	151	45	X-type	55
National Crane	NTC55	179	128	45	X-type	55
National Crane	NTC55L	202	151	45	X-type	55



## BOOM TRUCKS BY MANUFACTURER

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
National Crane	NBT 60	179	128	NA	X-type	60
GMC	5370R	73.8	70	n/s	Out-and-Down	22
GMC	5555S	58.8	55	n/s	Out-and-Down	23
GMC	5555R	58.8	55	n/s	Out-and-Down	23
GMC	4033R	37.4	33	n/s	Out-and-Down	25
GMC	4037R	41.3	37	n/s	Out-and-Down	25
GMC	5037R	34.9	37	n/s	Out-and-Down	29
GMC	5034R	32.2	34	n/s	Out-and-Down	29
GMC	7256R	60.2	56	n/s	Out-and-Down	30
GMC	6070C	73.8	70	30 Fly	Out-and-Down	33
GMC	8470S	73.8	70	30 Fly	Out-and-Down	33
GMC	6082TD	83.9	82	n/s	Out-and-Down	34
GMC	70100TD	95.5	100	n/s	Out-and-Down	35
GMC	7060RSX	56.9	60	n/s	Out-and-Down	36
GMC	8060R	57.1	60	n/s	Out-and-Down	40
GMC	80101S	97	101	n/s	Out-and-Down	40
Terex	BT 2047	87	47	18 - 30	A Link-Type	10
Terex	TM 3851	90	51	18 - 29	A Link-Type	19
Terex	BT 3870	120	70	24 - 40	A Link-Type	19
Terex	BT 5092	144	92	26 - 44	H-type	25
Terex	BT 28106	162	106	30 - 47	K-pattern	28
Terex	BT 70100	163	100	30.5 - 55	H-type	35
Terex	RS 70100	163	100	30.5 - 55	H-type	35
Terex	Crossover 4500L	183	129	32 - 49	X-pattern	45
Terex	Crossover 5000	170	110	33 - 57	X-pattern	50
Terex	Crossover 6000	170	110	33 - 57	X-pattern	60
Terex	Crossover 8000	190	126	33 - 57	X-pattern	80

## BOOM TRUCKS BY CAPACITY

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Elliott Equipment Company	1039	49	39	NA	A-Frame	10
Elliott Equipment Company	1047	57	47	NA	A-Frame	10
Elliott Equipment Company	1056	96	56	18 or 30	A-Frame	10
National Crane	400B	66	56	n/s	A-type	10
Terex	BT 2047	87	47	18-30	A Link-Type	10
Elliott Equipment Company	1560	90	60	20	A-Frame	15
Manitex	1770C	121	27 - 70	23.6 or 40.6	A-Link	17
Altec	AC18-70B	121	70	40	A-type	18
Altec	AC18-70B-HL	121	70	40	A-type	18
Altec	AC18-70B-HL	121	70	40	Out-and-Down	18
Altec	AC18-70R-HL	121	70	40	A-type	18
Altec	AC18-70R-HL	121	70	40	Out-and-Down	18
Elliott Equipment Company	1838	48	38	NA	A-Frame	18
Elliott Equipment Company	1860	90	60	20	A-Frame	18
Elliott Equipment Company	1870	120	70	23 or 40	A-Frame	18
Elliott Equipment Company	1870CP	120	70	23 or 40	Out-and-Down	18
Elliott Equipment Company	1881TM	91	81	NA	Out-and-Down	18
Elliott Equipment Company	18125	137	125	NA	Out-and-Down	18
National Crane	500 E2	121	71	41	A-type	18
Manitex	1970C	121	27 - 70	23.6 or 40.6	A-link	19
Terex	TM 3851	90	51	18 - 29	A Link-Type	19
Terex	BT 3870	120	70	24 - 40	A Link-Type	19
Manitex	2085T	95	18.9 - 85	N/A	Out-and-Down	20
National Crane	600 E2	121	90	45	A-type	20
National Crane	600H	99	90	45	Out-and-Down	20
Manitex	2250C/T	96	20 - 50	20 or 34	A-Link	22
Manitex	2262C/T	115	24 - 62	24 or 42	A-Link	22

## BOOM TRUCKS BY CAPACITY

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
Manitex	2277C	140	29 - 77	29 or 52	A-link	22
Manitex	2281C	133	24 - 81	24 or 41	A-link	22
Manitex	2277S	138	29 - 77	29 or 52	Out-and-Down	22
Manitex	22101S tandem axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
Manitex	22101S single axle	140	29 - 101.4	29.5 or 52	Out-and-Down	22
GMC	5370R	73.8	70	n/s	Out-and-Down	22
National Crane	800D	152	100	44	A-type	23
GMC	5555S	58.8	55	n/s	Out-and-Down	23
GMC	5555R	58.8	55	n/s	Out-and-Down	23
Altec	AC23-95B	150	95	44	Out-and-Down	23.5
Altec	AC23-95R	150	95	44	Out-and-Down	23.5
Altec	AC23-95S	150	95	44	Out-and-Down	23.5
Manitex	124WL	135	37 - 124	n/s	A-Link and Out-and-Down	25
GMC	4033R	37.4	33	n/s	Out-and-Down	25
GMC	4037R	41.3	37	n/s	Out-and-Down	25
Terex	BT 5092	144	92	26 - 44	H-type	25
Altec	AC26-103B	159	103	44	A-type	26
Altec	AC26-103B	159	103	44	Out-and-Down	26
Altec	AC26-103R	159	103	44	A-type	26
Altec	AC26-103S	156	103	44	Out-and-Down	26
Elliott Equipment Company	2651TM	63	51	NA	A-Frame	26
Elliott Equipment Company	2673	85	73	NA	A-Frame	26
Elliott Equipment Company	2695	152	95	26 or 45	A-Frame	26
Elliott Equipment Company	26105	162	105	26 or 45	A-Frame	26
Manitex	26101C	142	29 - 101	26	A-link	26
National Crane	900A	155	103	44	A-type	26
Altec	AC28-103B	159	103	44	A-type	28
Altec	AC28-103B	159	103	44	Out-and-Down	28
Manitex	2892C	149	28 - 92	26 or 46	A-Link and Out-and-Down	28
Terex	BT 28106	162	106	30 - 47	K-pattern	28
GMC	5037R	34.9	37	n/s	Out-and-Down	29
GMC	5034R	32.2	34	n/s	Out-and-Down	29
Altec	AC30-103S	156	103	44	Out-and-Down	30
Elliott Equipment Company	3095	148	95	24 or 41	Out-and-Down	30
Elliott Equipment Company	30105	162	105	26 or 45	Out-and-Down	30
Manitex	30112S	168	33 - 112	26 or 46	Out-and-Down	30
Manitex	3071C	82	28 - 71	n/a	A-Link and Out-and-Down	30
Manitex	30102C	157	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	102WL	159	31 - 102	26 or 46	A-Link and Out-and-Down	30
Manitex	30100C	110.6	100	26-46	A-Link and Out-and-Down	30
Manitex	3051T	62	51	NA	A-LINK and Out-and-Down	30
National Crane	NBT30H-2	119	110	44	Out-and-Down	30
National Crane	1300A	163	110	44	Out-and-Down	30
GMC	7256R	60.2	56	n/s	Out-and-Down	30
National Crane	1400H	165	127	30	Out-and-Down	33
National Crane	1400A	172	127	30	Out-and-Down	33
GMC	6070C	73.8	70	30 Fly	Out-and-Down	33
GMC	8470S	73.8	70	30 Fly	Out-and-Down	33
Elliott Equipment Company	34127	186	127	49	Out-and-Down	34
Elliott Equipment Company	34142	201	142	49	Out-and-Down	34
GMC	6082TD	83.9	82	n/s	Out-and-Down	34
Manitex	3577C	91	30 - 77	n/s	Out-and-Down	35
Manitex	35100C	167	31 - 100	31.6 or 55	Out-and-Down	35
Manitex	35124C	166	31 - 124	31	Out-and-Down	35
GMC	70100TD	95.5	100	n/s	Out-and-Down	35
Terex	BT 70100	163	100	30.5 - 55	H-type	35
Terex	RS 70100	163	100	30.5 - 55	H-type	35
Elliott Equipment Company	36127	186	127	49	Out-and-Down	36
Elliott Equipment Company	36142	201	142	49	Out-and-Down	36



**BOOM TRUCKS BY CAPACITY**

Manufacturer	Model	Max Hook Height (ft/inch)	Boom Length (ft/inch)	Jib Length (ft/inch)	Outrigger Type	Max Lift Capacity (US tons)
National Crane	NBT 36-1	190	127	55	Out-and-Down	36
GMC	7060RSX	56.9	60	n/s	Out-and-Down	36
Altec	AC38-103S	167	103	55	Out-and-Down	38
Altec	AC38-103S-XHL	167	103	55	Out-and-Down	38
Altec	AC38-127S	189	127	55	Out-and-Down	38
Altec	AC38-127S-HL	189	127	55	Out-and-Down	38
Altec	AC38-127S-L	136	127	n/s	Out-and-Down	38
Altec	AC40-152S	207	152	49	Out-and-Down	40
Elliott Equipment Company	40105	170	105	32 or 55	Out-and-Down	40
Elliott Equipment Company	40127	192	127	26 or 55	Out-and-Down	40
Elliott Equipment Company	40142	207	142	26 or 55	Out-and-Down	40
Manitex	4077S	87	31 - 77	n/a	Out-and-Down	40
Manitex	4077SHL	87	31 - 77	n/a	Out-and-Down	40
Manitex	40100S	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40100SHL	165	31 - 100	31 or 55	Out-and-Down	40
Manitex	40124S	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	40124SHL	187	31 - 124	31 or 55	Out-and-Down	40
Manitex	TC400-127	190	31-127	31-55	Out-and-Down	40
Manitex	TC400-142	205	34 - 142	31-55	Out-and-Down	40
National Crane	NBT 40-1	190	142	55	Out-and-Down	40
GMC	8060R	57.1	60	n/s	Out-and-Down	40
GMC	80101S	97	101	n/s	Out-and-Down	40
Altec	AC45-127S	189	127	55	Out-and-Down	45
Elliott Equipment Company	45105	170	105	32 or 55	Out-and-Down	45
Elliott Equipment Company	45127	192	127	26 or 55	Out-and-Down	45
Elliott Equipment Company	45142	207	142	26 or 55	Out-and-Down	45
Manitex	TC450-127	190	31 - 127	31-55	Out-and-Down	45
Manitex	TC450-142	205	34 - 142	31-55	Out-and-Down	45
Manitex	4596T	152	31 - 96	32 or 49	Out-and-Down	45
Manitex	45110T	167.5	110	32-49 ft	Out-and-Down	45
National Crane	NBT 45-1	206	161	55	Out-and-Down	45
Terex	Crossover 4500L	183	129	32 - 49	X-pattern	45
Elliott Equipment Company	50105	164	105	32 or 49	Out-and-Down	50
Manitex	TC500-96	152	31 - 96	32 or 49	Out-and-Down	50
Manitex	TC500-110	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-110HL	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	TC500-155	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-155HL	203	38.5 - 155	39	Out-and-Down	50
Manitex	TC500-128	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	TC500-128HL	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	5096S	152	31 - 96	32 or 49	Out-and-Down	50
Manitex	50110S	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	50110SHL	164	34 - 110	32 or 49	Out-and-Down	50
Manitex	50155S	203	38.5 - 155	39	Out-and-Down	50
Manitex	50155SHL	203	38.5 - 155	39	Out-and-Down	50
Manitex	50128S	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	50128SHL	185	38.5 - 185	32 or 39	Out-and-Down	50
Manitex	5060S	72.5	60	NA	Out-and-Down	50
National Crane	NBT 50	179	128	45	X-type	50
National Crane	NBT50L	202	151	45	X-type	50
Terex	Crossover 5000	170	110	33 - 57	X-pattern	50
National Crane	NBT55	179	128	45	X-type	55
National Crane	NBT55L	202	151	45	X-type	55
National Crane	NTC55	179	128	45	X-type	55
National Crane	NTC55L	202	151	45	X-type	55
National Crane	NBT 60	179	128	NA	X-type	60
Terex	Crossover 6000	170	110	33 - 57	X-pattern	60
Manitex	TC700	185	115	31-51	Out-and-Down	70
Terex	Crossover 8000	190	126	33 - 57	X-pattern	80

## CRAWLER CRANES BY MANUFACTURER

Manufacturer	Model	Load at			Boom Length		Maximum Travel Speed (m/min)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Maximum Hook Height (m)	Minimum/Maximum (m/m)	Maximum Main Boom Extension (m)		
Demag	CC 2400-1	400	5.5@142	162	24/168	84	33.33	440
Demag	CC 2800-1	600	4@142	192	24/180	102	20	660
Demag	CC 3800-1	650	4.1@161	192	24/192	96	20	715
Demag	PC 3800-1	650	6.3@160	192	24/192	96	on outriggers	715
Demag	CC 6800-1	1250	5.4@170	202	30/210	114	18.33	1,375
Demag	CC 8800-1	1600	14.0@174	208	48/216	108	13.33	1,760
Demag	CC 8800-1 TWIN	3200	123@129	222	54/234	117	13.33	3,525
Kobelco	CK800G-2	72.4@3.7	1.2@52	70	15.2/61.0	18	28.7	80
Kobelco	CK850G-2	77@3.0	1.2@52	70	12.2/61.0	18	28.7	85
Kobelco	CK1100G-2	100@3.3	1.6@52	74	12.2/61.0	18	28.7	110
Kobelco	CK1200G-2	109@3.6	1.6@56.5	92	15.2/70.1	52	23.3	120
Kobelco	CK1600G-2	145@4.6	1.9@75.0	99	15.2/76.5	53	21.7	160
Kobelco	CK2000II	181@3.7	2.0@84.0	105	15.2/85.6	52	18.3	200
Kobelco	CK2750G-2	250@4.6	2.5@86.0	121	15.2/91.7	61	16.7	275
Kobelco	CK3300G-2	300@5.5	2.7@92.0	122	24.0/90.2	66	16.6	330
Kobelco	CK3300G-2 (SHL)	350@8.0	8.7@101.0	171	30.0/102.0	90	16.6	385
Lampson	LTL-350	317	3.9@88.4	103.9	42.6/103.6	42.6	26.8	350
Lampson	LTL-500	453	15.4@76.2	86.1	42.6/85.3	42.6	26.8	500
Lampson	LTL-850	798	8.2@120.4	122.2	48.7/121.9	60.9	26.8	850
Lampson	LTL-1000	907	49.4@121.9	122.2	48.7/121.9	60.9	26.8	1,000
Lampson	LTL-1100	997	70.3@121.9	122.2	48.7/121.9	73.1	26.8	1,100
Lampson	LTL-1200	1430	10@140.2	142.3	67.0/140.2	73.1	26.8	1,500
Lampson	LTL-1500	1430	10@140.2	142.3	67.0/140.2	73.1	26.8	1,500
Lampson	LTL-2600	2358	208@140.2	142.3	67.0/140.2	73.1	26.8	2,600
Lampson	LTL-3000	2721	279@140.2	142.3	67.0/140.2	73.1	26.8	3,000
Liebherr	HS 8030 HD Duty Cycle	30	2.2@16	21	22	24	30	35
Liebherr	HS 8040 HD Duty Cycle	44	1.2@36	45	18/56	50	30.8	48
Liebherr	HS 8050 HD Duty Cycle	50	1.2@50	47	18/56	50	1.15	55
Liebherr	HS 8070 HD Duty Cycle	65	1.1@46	54	20/60	56	25	77
Liebherr	LR 1110	115.5@3	2.5@65	98	14.0/71.0	71.0	46.6	110
Liebherr	HS 8100 HD Duty Cycle	90	1@52	60	14/68	62	22.33	110
Liebherr	LR1110	115	2.4@65	105.9	14/104.8	71	22.5	127
Liebherr	HS 8130 HD Duty Cycle	120	0.5@50	72	14/53	74	21.66	150
Liebherr	LR 1130	137.2@3.4m	2.2@80	120	17.0/80.0	92.6	35	151
Liebherr	LR 1160	160@3.9m	2.8@85.0	129	20.0/87.5	104.9	25	200
Liebherr	LR 1200	220@4.1m	2.3@95	142	20.0/89.0	117	26.6	220
Liebherr	HS 895 HD Duty Cycle	200	2.7@72	82	20/84	84	23.33	220
Liebherr	LR 1250	250@4.1m	2.3@95	142	20.0/86.0	117	26.6	275
Liebherr	LR 1300 SX	300.5@4.3m	3.3@105	164	20.0/92.0	123.13	21.6	330
Liebherr	HS 8300 HD Duty Cycle	300	2.9@60	72	20/68	68	25	330
Liebherr	LR 1350/1	350@6m	11.8@110	152	18/120	90	27	400
Liebherr	LR 1500	500@11m	3.3@144	164	36/114	84	27.5	550
Liebherr	LR 1600/2	600@11m	6.2@152	187	24/144	96	22.7	660
Liebherr	LR 1600/2-W	600@11m	23@144	166	24/144	36	22.7	660
Liebherr	LR 1750/2	750@7m	2.6@156	191	21/140	105	27.5	825
Liebherr	LR 1800-1.0	800@9m	@152	200	36/180	102	22.7	880
Liebherr	LR 1800-1.0	800@9m	@152	200	36/180	102	22.7	880
Liebherr	LR 11000	1,000@11m	6.1@180	224	18/156	114	22.7	1,200
Liebherr	LR 11350	1,350@12m	30.6@140	196	30/150	114	18	1,500
Liebherr	LR 13000	3,000@12	29@200	245	60/144	126	n/s	3,300
Link-Belt	138 HSL	73	0.7@57.9	58.5	12.2/61	18.3	32.2	80
Link-Belt	218 HSL	100	1.2@61	67.7	12.19/70.1	22.9	32.2	110
Link-Belt	228 HSL	117.9	1.4@61	85.7	13.72/71.65	22.9	32.2	130
Link-Belt	238 HSL	136	1.4@70.1	93.9	15.2/79.3	24.4	26.8	150
Link-Belt	248 HSL	181	1.1@76.2	105.7	16.7/86.6	30.5	23.3	200
Link-Belt	298 Series 2	208.6	1.5@86.4	110.7	18.3/88.3	27.4	26.6	230
Link-Belt	348 Series 2	272.2	1.1@82.3	132.6	21.3/108.2	42.7	26.6	300
Manitowoc	MLC100-1	100	1.9@50	58	13/61	18.3	45.6	110



## CRAWLER CRANES BY MANUFACTURER

Manufacturer	Model	Load at		Maximum Hook Height (m)	Boom Length		Maximum Travel Speed (m/min)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)		Minimum/Maximum (m/m)	Maximum Main Boom Extension (m)		
Manitowoc	MLC165-1	165	1.7@62	51.8	15/84	24.4	51.7	181
Manitowoc	14000	200	3.2@84	57.8	20/89	21.3	30	220
Manitowoc	999	250	2.2@88	94.4	21/88	15.2	26.8	275
Manitowoc	2250	272	2.7@100	91.4	21/101	12.2	26.8	300
Manitowoc	MLC300	300	5.2@80	102	30/102	30	21.7	330
Manitowoc	16000	400	9@88	84	30/96	24	20.7	440
Manitowoc	MLC650	650	8.8@82	101	32/104	26	21.7	716
Manitowoc	31000	2300	48@150	42	55/110	24	10	2,535
Terex	HC 80	80	0.68@60.9	72	12.2/70.1	18.3	33.33	80
Terex	HC 120	110	1.28@60.93	84	15.2/82.3	21	23.33	110
Terex	HC 165	165	0.82@76.2	94	15.2/94.5	24.4	14.66	165
Terex	HC 230	208	1.8@85.3	105	18.2/97.5	12.1	14.66	230
Terex	HC 285	250	2.2@85.3	114	21.3/111.3	29	14.66	275
Zoomlion	ZCC1100	100@3.2	1.2@55	67	13/67	18	21	110
Zoomlion	ZCC2600	260@5	2@82	94	20/83	60	16.67	286

## CRAWLER CRANES BY CAPACITY

Manufacturer	Model	Load at		Maximum Hook Height (m)	Boom Length		Maximum Travel Speed (m/min)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)		Minimum/Maximum (m/m)	Maximum Main Boom Extension (m)		
Liebherr	HS 8030 HD Duty Cycle	30	2.2@16	21	22	24	30	35
Liebherr	HS 8040 HD Duty Cycle	44	1.2@36	45	18/68	50	30.8	48
Liebherr	HS 8050 HD Duty Cycle	50	1.2@50	47	18/68	50	1.15	55
Liebherr	HS 8070 HD Duty Cycle	65	1.1@46	54	20/76	56	25	77
Kobelco	CK800G-2	72.4@3.7	1.2@52	70	15.2/61.0	18	28.7	80
Link-Belt	138 HSL	73	0.7@57.9	58.5	12.2/61	18.3	32.2	80
Terex	HC 80	80	0.68@60.9	72	12.2/70.1	18.3	33.33	80
Kobelco	CK850G-2	77@3.0	1.2@52	70	12.2/61.0	18	28.7	85
Kobelco	CK1100G-2	100@3.3	1.6@52	74	12.2/61.0	18	28.7	110
Liebherr	LR 1110	115.5@3	2.5@65	98	14.0/71.0	71.0	46.6	110
Liebherr	HS 8100 HD Duty Cycle	90	1@52	60	14/68	62	22.33	110
Link-Belt	218 HSL	100	1.2@61	67.7	12.19/70.1	22.9	32.2	110
Manitowoc	MLC100-1	100	1.9@50	58	13/61	18.3	45.6	110
Terex	HC 120	110	1.28@60.93	84	15.2/82.3	21	23.33	110
Zoomlion	ZCC1100	100@3.2	1.2@55	67	13/67	18	21	110
Kobelco	CK1200G-2	109@3.6	1.6@56.5	92	15.2/70.1	52	23.3	120
Liebherr	LR1110	115	2.4@65	105.9	14/104.8	71	22.5	127
Link-Belt	228 HSL	117.9	1.4@61	85.7	13.72/71.65	22.9	32.2	130
Liebherr	HS 8130 HD Duty Cycle	120	0.5@50	72	14/53	74	21.66	150
Link-Belt	238 HSL	136	1.4@70.1	93.9	15.2/79.3	24.4	26.8	150
Liebherr	LR 1130	137.2@3.4m	2.2@80	120	17.0/80.0	92.6	35	151
Kobelco	CK1600G-2	145@4.6	1.9@75.0	99	15.2/76.5	53	21.7	160
Terex	HC 165	165	0.82@76.2	94	15.2/94.5	24.4	14.66	165
Manitowoc	MLC165-1	165	1.7@62	51.8	15/84	24.4	51.7	181
Kobelco	CK2000II	181@3.7	2.0@84.0	105	15.2/85.6	52	18.3	200
Liebherr	LR 1160	160@3.9m	2.8@85.0	129	20.0/87.5	104.9	25	200
Link-Belt	248 HSL	181	1.1@76.2	105.7	16.7/86.6	30.5	23.3	200
Liebherr	LR 1200	220@4.1m	2.3@95	142	20.0/89.0	117	26.6	220
Liebherr	HS 895 HD Duty Cycle	200	2.7@72	82	20/84	84	23.33	220
Manitowoc	14000	200	3.2@84	57.8	20/89	21.3	30	220
Link-Belt	298 Series 2	208.6	1.5@86.4	110.7	18.3/88.3	27.4	26.6	230
Terex	HC 230	208	1.8@85.3	105	18.2/97.5	12.1	14.66	230
Kobelco	CK2750G-2	250@4.6	2.5@86.0	121	15.2/91.7	61	16.7	275
Liebherr	LR 1250	250@4.1m	2.3@95	142	20.0/86.0	117	26.6	275
Manitowoc	999	250	2.2@88	94.4	21/88	15.2	26.8	275
Terex	HC 285	250	2.2@85.3	114	21.3/111.3	29	14.66	275
Zoomlion	ZCC2600	260@5	2@82	94	20/83	60	16.67	286

## CRAWLER CRANES BY CAPACITY

Manufacturer	Model	Load at			Boom Length		Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Maximum Hook Height (m)	Minimum/Maximum (m/m)	Maximum			
Link-Belt	348 Series 2	272.2	1.1@82.3	132.6	21.3/108.2	42.7	26.6	300	
Manitowoc	2250	272	2.7@100	91.4	21/101	12.2	26.8	300	
Kobelco	CK3300G-2	300@5.5	2.7@92.0	122	24.0/90.2	66	16.6	330	
Liebherr	LR 1300 SX	300.5@4.3m	3.3@105	164	20.0/92.0	123.13	21.6	330	
Liebherr	HS 8300 HD Duty Cycle	300	2.9@60	72	20/68	68	25	330	
Manitowoc	MLC300	300	5.2@80	102	30/102	30	21.7	330	
Lampson	LTL-350	317	3.9@88.4	103.9	42.6/103.6	42.6	26.8	350	
Kobelco	CK3300G-2 (SHL)	350@8.0	8.7@101.0	171	30.0/102.0	90	16.6	385	
Liebherr	LR 1350/1	350@6m	11.8@110	152	18/120	90	27	400	
Demag	CC 2400-1	400	5.5@142	162	24/168	84	33.33	440	
Manitowoc	16000	400	9@88	84	30/96	24	20.7	440	
Lampson	LTL-500	453	15.4@76.2	86.1	42.6/85.3	42.6	26.8	500	
Liebherr	LR 1500	500@11m	3.3@144	164	36/114	84	27.5	550	
Demag	CC 2800-1	600	4@142	192	24/180	102	20	660	
Liebherr	LR 1600/2	600@11m	6.2@152	187	24/144	96	22.7	660	
Liebherr	LR 1600/2-W	600@11m	23@144	166	24/144	36	22.7	660	
Demag	CC 3800-1	650	4.1@161	192	24/192	96	20	715	
Demag	PC 3800-1	650	6.3@160	192	24/192	96	on outriggers	715	
Manitowoc	MLC650	650	8.8@82	101	32/104	26	21.7	716	
Liebherr	LR 1750/2	750@7m	2.6@156	191	21/140	105	27.5	825	
Lampson	LTL-850	798	8.2@120.4	122.2	48.7/121.9	60.9	26.8	850	
Liebherr	LR 1800-1.0	800@9m	@152	200	36/180	102	22.7	880	
Liebherr	LR 1800-1.0	800@9m	@152	200	36/180	102	22.7	880	
Lampson	LTL-1000	907	49.4@121.9	122.2	48.7/121.9	60.9	26.8	1,000	
Lampson	LTL-1100	997	70.3@121.9	122.2	48.7/121.9	73.1	26.8	1,100	
Liebherr	LR 11000	1,000@11m	6.1@180	224	18/156	114	22.7	1,200	
Demag	CC 6800-1	1,250	5.4@170	202	30/210	114	18.33	1,375	
Lampson	LTL-1200	1,430	10@140.2	142.3	67.0/140.2	73.1	26.8	1,500	
Lampson	LTL-1500	1,430	10@140.2	142.3	67.0/140.2	73.1	26.8	1,500	
Liebherr	LR 11350	1,350@12m	30.6@140	196	30/150	114	18	1,500	
Demag	CC 8800-1	1,600	14.0@174	208	48 / 216	108	13.33	1,760	
Manitowoc	31000	2300	48@150	42	55/110	24	10	2,535	
Lampson	LTL-2600	2358	208@140.2	142.3	67.0/140.2	73.1	26.8	2,600	
Lampson	LTL-3000	2721	279@140.2	142.3	67.0/140.2	73.1	26.8	3,000	
Liebherr	LR 13000	3,000@12	29@200	245	60/144	126	n/s	3,300	
Demag	CC 8800-1 TWIN	3200	123@129	222	54 / 234	117	13.33	3,525	

## TELESCOPIC CRAWLERS BY MANUFACTURER

Manufacturer	Model	Load at			Boom Length		Maximum Main Boom Extension (m)	Maximum Travel Speed (m/min)	Capacity US Tons
		Maximum Load @ 3m (t)	Maximum Radius (t@m)	Maximum Hook Height (m)	Minimum/Maximum (m/m)	Maximum			
Grove	GHC30	28.5	0.8@30	40.2	10/25.2	13	50	30	
Grove	GHC75	67.2	0.7@44	52.7	11.0/36	15	45	75	
Grove	GHC50	45	0.8@36	45.4	9.4/30.4	13	41.5	50	
Grove	GHC55	45	0.8@36	45.4	9.4/30.4	13	41.5	55	
Grove	GHC130	100	1.0@62	70	12.6/40.2	27	41.5	132	
Link-Belt	TCC-500	51	0.6@44	50.44	10.8/33.8	15.6	53.3	50	
Link-Belt	TCC-750	70	1.9@32	53.3	11.8/35.2	n/s	33.3	50	
Link-Belt	TCC-1200	110	10.2@140	64.3	12.2/45.7	n/s	53.3	110	
Link-Belt	TCC-1400	127@2.4	0.5@62	78.5	12.9/59.5	n/s	53.3	140	
Link-Belt	TCC-2500	230	1.1@83.8	105.4	13.3/68	n/s	42.9	250	
Manitex Valla	20 TRX	0.5	0.5@3m	4.5	1.6 & 4	4	53.3	2.2	
Tadano Mantis	GTC-350	35	0.3@38	38.9	10.9/27.2	12.8	65	35	
Tadano Mantis	GTC-500	46	0.3@42	49.3	11.0/34.7	15.2	48.3	50	
Tadano Mantis	GTC-600	60	0.4@45	55.5	11.5/36	17.7	63	66	
Tadano Mantis	GTC-800	80	1.0@50	60.4	11.5/43	17.7	57	88	
Tadano Mantis	GTC-1200	120	1.3@59.4	80	12.8/47.2	32	43	130	



## TELESCOPIC CRAWLERS BY CAPACITY

Manufacturer	Model	Maximum	Load at	Maximum	Boom Length	Maximum	Maximum	Capacity
		Load @ 3m (t)	Maximum Radius (t@m)	Hook Height (m)	Minimum/Maximum (m/m)	Main Boom Extension (m)	Travel Speed (m/min)	
Manitex Valla	20 TRX	0.5	0.5@3m	4.5	1.6 & 4	4	53.3	2.2
Grove	GHC30	28.5	0.8@30	40.2	10/25.2	13	50	30
Tadano Mantis	GTC-350	35	0.3@38	38.9	10.9/27.2	12.8	65	35
Grove	GHC50	45	0.8@36	45.4	9.4/30.4	13	41.5	50
Link-Belt	TCC-500	51	0.6@44	50.44	10.8/33.8	15.6	53.3	50
Link-Belt	TCC-750	70	1.9@32	53.3	11.8/35.2	n/s	33.3	50
Tadano Mantis	GTC-500	46	0.3@42	49.3	11.0/34.7	15.2	48.3	50
Grove	GHC55	45	0.8@36	45.4	9.4/30.4	13	41.5	55
Tadano Mantis	GTC-600	60	0.4@45	55.5	11.5/36	17.7	63	66
Grove	GHC75	67.2	0.7@44	52.7	11.0/36	15	45	75
Tadano Mantis	GTC-800	80	1.0@50	60.4	11.5/43	17.7	57	88
Link-Belt	TCC-1200	110	10.2@140	64.3	12.2/45.7	n/s	53.3	110
Tadano Mantis	GTC-1200	120	1.3@59.4	80	12.8/47.2	32	43	130
Grove	GHC130	100	1.0@62	70	12.6/40.2	27	41.5	132
Link-Belt	TCC-1400	127@2.4	0.5@62	78.5	12.9/59.5	n/s	53.3	140
Link-Belt	TCC-2500	230	1.1@83.8	105.4	13.3/68	n/s	42.9	250

## MEGA CRANES BY MANUFACTURER

Manufacturer	Model	Maximum	Load at	Maximum	Boom Length	Capacity	Capacity
		Load (t)	Maximum Radius (t@m)	Hook Height (m)	Minimum/Maximum (m/m)	Metric tons	US Tons
ALE	AL.SK190	4,300	245t @ 196m	213m	89m/214m	4,300	4,740
ALE	AL.SK350	5,000	106t @ 254m	231m	89m/242m	5,000	5,511
ALE	AL.SK700	10,000	212t @ 254m	231m	89m/242m	10,000	11,023
Bigge Crane and Rigging	Bigge145D	6,820	390t @ 203	220m (with fixed jib)	91m minimum	6,820	7,500
Bigge Crane and Rigging	Bigge160D	6,820	545t @ 203	220m (with fixed jib)	91m minimum	6,820	7,500
Demag	CC 8800-1 TWIN	3,200	123@29	222	54 / 234	n/s	3,525
Lampson	LTL-2600	2,358	208@140.2	142.3	67.0/140.2	n/s	2,600
Lampson	LTL-3000	2,721	279@140.2	142.3	67.0/140.2	2,680	3,000
Liebherr	LR 13000	3,000	29@200	236	60/144	3,000	3,300
Mammoet	PTC 200 DS	4,500	88@207	240	83/246	4,500	5,000
Manitowoc	31000	2,300	80.1@130	154.6	55/150	2,300	2,535
Sarens	SGC-140	3,200	200t @ 200	212m (w/ Jib)	89/130	3,200	3,465
Sarens	SGC-120	3,200	150t @ 200	212m (w/ Jib)	89/130	3,200	3,465
Sarens	SGC-250	5,000	@250	250m (w/ Jib)	118/160	5,000	5,511

## MEGA CRANES BY CAPACITY

Manufacturer	Model	Maximum	Load at	Maximum	Boom Length	Capacity	Capacity
		Load (t)	Maximum Radius (t@m)	Hook Height (m)	Minimum/Maximum (m/m)	Metric tons	US Tons
Manitowoc	31000	2,300	80.1@130	154.6	55/150	2,300	2,535
Lampson	LTL-2600	2,358	208@140.2	142.3	67.0/140.2	n/s	2,600
Lampson	LTL-3000	2,721	279@140.2	142.3	67.0/140.2	2,680	3,000
Liebherr	LR 13000	3,000	29@200	236	60/144	3,000	3,300
Sarens	SGC-140	3,200	200t @ 200	212m (w/ Jib)	89/130	3,200	3,465
Sarens	SGC-120	3,200	150t @ 200	212m (w/ Jib)	89/130	3,200	3,465
Demag	CC 8800-1 TWIN	3,200	123@129	222	54 / 234	n/s	3,525
ALE	AL.SK190	4,300	245t @ 196m	213m	89m/214m	4,300	4,740
Mammoet	PTC 200 DS	4,500	88@207	240	83/246	4,500	5,000
ALE	AL.SK350	5,000	106t @ 254m	231m	89m/242m	5,000	5,511
Sarens	SGC-250	5,000	@250	250m (w/ Jib)	118/160	5,000	5,511
Bigge Crane and Rigging	Bigge145D	6,820	390t @ 203	220m (with fixed jib)	91m minimum	6,820	7,500
Bigge Crane and Rigging	Bigge160D	6,820	545t @ 203	220m (with fixed jib)	91m minimum	6,820	7,500
ALE	AL.SK700	10,000	212t @ 254m	231m	89m/242m	10,000	11,023

## LUFFING JIB BY MANUFACTURER

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
COMANSA	LCL165 8t	8	8@25	2.5@50	820	30 to 50	310	0	56.6	87
COMANSA	LCL 165 12t	12	12@15	2.3@50	640	30 to 50	330	0	56.6	87
COMANSA	LCL 190 12t	12	12@20	1.5@60	640	30 to 60	330	0	63.1	87
COMANSA	LCL 280 12t	12	12@30	2.9@60	640	30 to 60	330	0	53.2	87
COMANSA	LCL 310 12t	12	12@30	3.5@60	640	30 to 60	330	0	59	87
COMANSA	LCL 190 18t	18	18@15	1.5@60	640	30 to 60	224	0	63.1	87
COMANSA	LCL 280 18t	18	18@25	2.9@60	640	30 to 60	224	0	53.2	87
COMANSA	LCL 310 18t	18	18@20	3.5@60	640	30 to 60	224	0	59	87
COMANSA	LCL 280 24t	24	24@15	2.6@60	725	30 to 60	204	0	53.2	87
COMANSA	LCL 310 24t	24	24@15	3.2@60	725	30 to 60	204	0	59	87
COMANSA	LCL 500 24t	24	24@20	4.7@65	470	30 to 65	180	0	68.3	87
COMANSA	LCL 500 30t	30	30@15	4.2@65	400	30 to 65	176	0	62.8	87
COMANSA	LCL 700 50t	50	50@20	7.5@65	1270	30 to 65	169	0	69.8	87
COMANSA	LCL 700 64t	64	64@15	7.2@65	1015	30 to 65	129	0	69.8	87
ENG	EDK32	3	3.0@11.0	1.10@20	447	9	40	2	n/s	85
ENG	EDK60	4	4.0@18.0	1.10@30	453	9.5	40	2	n/s	85
ENG	EDL120	8	8.0@28.5	2.18@50.0	208	18	103	3	61.2	85
ENG	ETL 113	8	8.0@25.5	1.68@50.0	313	28	165	4	50.3	85
ENG	ETL 183	14	14.0@24.0	2.36@56.0	402	28	133	4	54.1	85
ENG	EDK200	16	16.0@11.0	3.82@31.7	508	17.2	182	3.7	44.6	85
ENG	ETL 253	20	20.0@24.0	3.35@60.0	558	29	203	5	68.7	85
ENG	EDKH185	25	25.0@10.5	3.20@35.0	252	14	58	2	49.8	85
ENG	ETL 273	25	25.0@20.5	3.30@60.0	564	29	159	3	68.7	85
Favelle Favco	M220D	32	32@10	3.0@53	n/s	27/55	210	n/s	56	85
Favelle Favco	M380F	32	32@15	3.0@63	n/s	36/64	250	n/s	56	85
Favelle Favco	M440D	50	50@13	2.7@65	n/s	36/69	158	n/s	56	85
Favelle Favco	MK440E	50	50@13	2.7@65	n/s	32/69	160	n/s	56	85
Favelle Favco	M760D	64	64@15	4.0@70	n/s	36/73	122	n/s	56	85
Favelle Favco	MK760E	64	64@12	4.0@70	n/s	36/73	150	n/s	56	85
Favelle Favco	M1280D	150	150@17.4	12.1@81	n/s	36/83	110	n/s	72	85
Favelle Favco	M2480D	330	330@14.4	20.6@91	n/s	27/93	95	n/s	76	85
Jaso	J80PA	5	5.0@18.3	1.3@40	246	25.5	100	16	75.3	n/s
Jaso	J118HPA (Hydraulic luffing crane)	6	6.0@25.1	1.6@45	452	30	80	14	68	n/s
Jaso	J168HPA (Hydraulic luffing crane)	6	6.0@30.0	2.5@50	434	30	80	14	70.1	n/s
Jaso	J80PA-RC	8	8.0@14.2	2.75@30.5	800	25.5	76	19	na	n/s
Jaso	J138PA	8	8.0@22.4	2.25@45.0	416	30	140	15	66.3	n/s
Jaso	J180PA.A	12	12.0@23.5	3.0@50	364	30	120	15	67.3	n/s
Jaso	J208PA	18	18.0@18.5	1.5@60	568	30	366	12	72.1	n/s
Jaso	J265PA	18	18.0@21.3	2.2@60	630	30	366	19	72.1	n/s
Jaso	J280PA.2R	18	18.0@26.2	3.0@60	818	30	220	19	74.3	n/s
Jaso	J280PA.24.2R	24	24@20.9	2.7@60	828	30	218	14	72.6	n/s
Jaso	J438PA	32	32@20.8	3.0@65	874	30	181	18	74.3	n/s
Jaso	J380PA	36	36@18.8	3.0@65	874	30	181	9	74.3	n/s
Jaso	J450PA	36	36@18.6	3.0@65	674	30	188	9	74.3	n/s
Jaso	J780PA,64	64	64@18.9	6.0@70	830	30	188	11	86.1	n/s
Jaso	J780PA	75	75@16.8	5.7@70	1007	30	310	8	86.1	n/s
Jost Cranes	JTL 68.4	4	4t @ 20m	1.5t @ 40m	n/s	25	124	15	100	87
Jost Cranes	JTL 78.4	4	4t @ 22m	1.6t @ 40m	n/s	25	200	33	100	87
Jost Cranes	JTL 98.4	4	4t @ 22m	1.5t @ 45m	n/s	30	200	33	100	87
Jost Cranes	JTL 78.6	6	6t @ 14.6m	1.5t @ 40m	n/s	25	184	17	100	87
Jost Cranes	JTL 98.6	6	6t @ 15m	1.4t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 108.6	6	6t @ 20m	1.6t @ 45m	n/s	30	124	11	100	87
Jost Cranes	JTL 118.6	6	6t @ 20m	1.8t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 158.6	6	6t @ 27m	2.4t @ 50m	n/s	27.3	124	11	100	87
Jost Cranes	JTL 118.8	8	8t @ 15.9 m	1.7t @ 45m	n/s	30	188	21	100	87
Jost Cranes	JTL 168.8	8	8t @ 21.7m	2.0t @ 50m	n/s	27.3	188	21	100	87
Jost Cranes	JTL 168.10	10	10t @ 17.3m	2.3t @ 50m	n/s	27.3	158	20	100	87
Jost Cranes	JTL 208.12	12	12t @ 19.7m	2.6t @ 55m	n/s	30	110	12	100	87



## LUFFING JIB BY MANUFACTURER

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Jost Cranes	JTL 218.12	12	12t @ 19.4m	3.3t @ 50m	n/s	30	188	12	100	87
Jost Cranes	JTL 268.12	12	12t @ 23m	3.4t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JTL 318.12	12	12t @ 25m	4.5t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JL 226.12	12	12t @ 20.4m	2.2t @ 60m	n/s	30	188	15	100	87
Jost Cranes	JL 266.12	12	12t @ 20.4m	3.1t @ 60m	n/s	30	188	15	100	87
Jost Cranes	JTL 268.16	16	16t @ 17.5m	3.3t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JTL 318.16	16	16t @ 20m	4.4t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JL 226.16	16	16t @ 15.4m	2.1t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 256.16	16	16t @ 18.5m	3.1t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 266.16	16	16t @ 18.3m	3.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 316.16	16	16t @ 22.1m	4.0t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 326.16	16	16t @ 22m	4.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 366.16	16	16t @ 25.3m	4.4t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 326.20	20	20t @ 17.7m	3.9t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 366.20	20	20t @ 20.3m	4.3t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 426.20	20	20t @ 24.2m	5.5t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 526.20	20	20t @ 29m	5.3t @ 65m	n/s	30	154	16	100	87
Jost Cranes	JL 416.24	24	24t @ 20.3m	5.1t @ 60m	n/s	30	130	16	100	87
Jost Cranes	JL 426.24	24	24t @ 20.1m	5.3t @ 60m	n/s	30	172	15	100	87
Jost Cranes	JL 526.24	24	24t @ 24m	5.1t @ 65m	n/s	30	172	15	100	87
Jost Cranes	JL 626.24	24	24t @ 30m	7.0t @ 65m	n/s	30	172	15	100	87
Jost Cranes	JL 616.32	32	32t @ 23.2m	9.1t @ 60m	n/s	30	134	17	100	87
Jost Cranes	JL 626.32	32	32t @ 22.6m	6.8t @ 65m	n/s	30	188	21	100	87
Liebherr	190 HC-L 8/16 Litronic	16	16@18.2	2.5@55.0	892	30 to 55	363	0	60.3	n/s
Liebherr	230 HC-L 8/16 Litronic	16	16@20.3	1.9@60.0	892	30 to 60	363	0	85.2	n/s
Liebherr	280 HC-L 12/24 Litronic	24	24@20.2	3.2@60.0	1290	30 to 60	261	0	79.3	n/s
Liebherr	357 HC-L 12/24 Litronic	24	24@24.0	4.5@60.0	1290	30 to 60	303	0	70.6	n/s
Liebherr	542 HC-L 12/24 Litronic	24	24@29.4	4.8@65.0	1290	30 to 65	303	0	64.8	n/s
Liebherr	280 HC-L 16/28 Litronic	28	28@17.0	3.0@60.0	1143	30 to 60	194	0	79.3	n/s
Liebherr	357 HC-L 18/32 Litronic	32	32@18.2	4.1@60.0	1101	30 to 60	193	0	70.6	n/s
Liebherr	542 HC-L 18/36 Litronic	36	36@20.8	4.3@65.0	1101	30 to 65	193	0	64.8	n/s
Liebherr	710 HC-L 25/50 Litronic	50	50@21.4	7.6@65.0	1161	30 to 65	218	0	74.8	n/s
Liebherr	710 HC-L 32/64 Litronic	64	64@16.4	7.2@65.0	1067	30 to 65	176	0	74.8	n/s
Potain	MR 90 C	8	8@18.1	1.6@45	n/s	30	118	n/s	57.8	87
Potain	MR 160 C	10	10@22	2.4@50	n/s	30	215	n/s	57.5	86
Potain	MR 225 A	14	14@18.8	2.15@55	n/s	30	198.5	n/s	55.9	86
Potain	MR 295 H20	20	20@19.4	2.7@60	n/s	30	245	n/s	63.7	86
Potain	MR 418	24	24@20	5@60	n/s	30	254	n/s	82.7	86
Potain	MR 298	24	24@16,8	2,4@60	n/s	30	210	n/s	63,7	86
Potain	MR 608	32	32@22.6	9@60	n/s	30	204	n/s	77.8	86
Potain	MR 618	32	32@22.2	8.25@60	n/s	30	216	n/s	74.4	85
Potain	MR 295 H16	16 t	16 @ 23.4	2.8@60	n/s	30	248	n/s	63.7	86
Terex	CTL 140-10	10	10@18.3	1.7	425	30/50	120	0	50.35	85
Terex	CDK 100-16	16	16@9.56	3.2	n/s	16.5/30.3	59	0	n/s	n/s
Terex	CTL 180-16	16	16@17.7	2	425	30/55	145	0	72.4	85
Terex	CTL 260-18	18	18@18.7	3.1	470	30/55	130	0	72.4	85
Terex	CTL 272-18	18	18@18	2.6	470	30/60	130	0	72.4	85
Terex	CTL 340-24	24	24@15.8	4	515	35/60	130	0	66.4	85
Terex	CTL 430-24	24	24@21.3	5.5	515	35/60	160	0	66.4	85
Terex	CTL 630B-32	32	32@23.2	6.7	495	35/65	202	0	76	85
Terex	CTL 650F-45	45	45@15.5	7	910	35/65	277	0	76	85
Terex	CTL 1600-66	66	66@27.6	16	960	40/75	185	0	89	85
Wilbert	WT 205L e.tronic	12	12@25	2@60	640	25	275	n/s	113	87
Wilbert	WT 405L e.tronic	32	32@19.9	4.7@61.5	900	27	200	n/s	100	87
Wilbert	WT 905L e.tronic	48	48@29.5	10.0@78	900	15	200	n/s	133	87
Wilbert	WT 1305L e.tronic	64	64@24	14@78	900	15	200	n/s	133	87
Wilbert	WT 1905L e.tronic	80	80@24.5	19@78	900	15	200	n/s	128	87
Wilbert	WT 2405L e.tronic	128	128@19.5	19.5@78	900	15	200	n/s	122.9	87

## LUFFING JIB BY MANUFACTURER

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
WOLFFKRAN	WOLFF 100 B	6	6.0@24.0	2.0@45.0	380	30/45	120	30	125.6	84
WOLFFKRAN	WOLFF 166 B	12	12@23	2.0@55	500	25/55	174	25	125.6	86
WOLFFKRAN	WOLFF 275 B	24	24@17.6	2.6@60.0	700	30/60	222	16	111.1	83
WOLFFKRAN	WOLFF 355 B	28	28@19.8	4.4@60.0	920	30/60	290	40	115.6	85
WOLFFKRAN	WOLFF 630 B	42	42@18.5	5.4@70.0	990	30/70	190	33	65.2	84
WOLFFKRAN	WOLFF 700 B	50	50@17.1	5.9@70.0	990	30/70	190	33	100.1	84
WOLFFKRAN	WOLFF 1250 B	60	60@28.2	12.1@80.0	990	40/80	190	11	95	84

## LUFFING JIB BY CAPACITY

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
ENG	EDK32	3	3.0@11.0	1.10@20	447	9	40	2	n/s	85
ENG	EDK60	4	4.0@18.0	1.10@30	453	9.5	40	2	n/s	85
Jost Cranes	JTL 68.4	4	4t @ 20m	1.5t @ 40m	n/s	25	124	15	100	87
Jost Cranes	JTL 78.4	4	4t @ 22m	1.6t @ 40m	n/s	25	200	33	100	87
Jost Cranes	JTL 98.4	4	4t @ 22m	1.5t @ 45m	n/s	30	200	33	100	87
Jaso	J80PA	5	5.0@18.3	1.3@40	246	25.5	100	16	75.3	n/s
Jaso	J118HPA (Hydraulic luffing crane)	6	6.0@25.1	1.6@45	452	30	80	14	68	n/s
Jaso	J168HPA (Hydraulic luffing crane)	6	6.0@30.0	2.5@50	434	30	80	14	70.1	n/s
Jost Cranes	JTL 78.6	6	6t @ 14.6m	1.5t @ 40m	n/s	25	184	17	100	87
Jost Cranes	JTL 98.6	6	6t @ 15m	1.4t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 108.6	6	6t @ 20m	1.6t @ 45m	n/s	30	124	11	100	87
Jost Cranes	JTL 118.6	6	6t @ 20m	1.8t @ 45m	n/s	30	184	17	100	87
Jost Cranes	JTL 158.6	6	6t @ 27m	2.4t @ 50m	n/s	27.3	124	11	100	87
WOLFFKRAN	WOLFF 100 B	6	6.0@24.0	2.0@45.0	380	30/45	120	30	125.6	84
COMANSA	LCL165 8t	8	8 @ 25	2.5 @ 50	820	30 to 50	310	0	56.6	87
ENG	EDL120	8	8.0@28.5	2.18@50.0	208	18	103	3	61.2	85
ENG	ETL 113	8	8.0@25.5	1.68@50.0	313	28	165	4	50.3	85
Jaso	J80PA-RC	8	8.0@14.2	2.75@30.5	800	25.5	76	19	na	n/s
Jaso	J138PA	8	8.0@22.4	2.25@45.0	416	30	140	15	66.3	n/s
Jost Cranes	JTL 118.8	8	8t @ 15.9m	1.7t @ 45m	n/s	30	188	21	100	87
Jost Cranes	JTL 168.8	8	8t @ 21.7m	2.0t @ 50m	n/s	27.3	188	21	100	87
Potain	MR 90 C	8	8@18.1	1.6@45	n/s	30	118	n/s	57.8	87
Jost Cranes	JTL 168.10	10	10t @ 17.3m	2.3t @ 50m	n/s	27.3	158	20	100	87
Potain	MR 160 C	10	10@22	2.4@50	n/s	30	215	n/s	57.5	86
Terex	CTL 140-10	10	10@18.3	1.7	425	30/50	120	0	50.35	85
COMANSA	LCL 165 12t	12	12@15	2.3@50	640	30 to 50	330	0	56.6	87
COMANSA	LCL 190 12t	12	12@20	1.5@60	640	30 to 60	330	0	63.1	87
COMANSA	LCL 280 12t	12	12@30	2.9@60	640	30 to 60	330	0	53.2	87
COMANSA	LCL 310 12t	12	12@30	3.5@60	640	30 to 60	330	0	59	87
Jaso	J180PA.A	12	12.0@23.5	3.0@50	364	30	120	15	67.3	n/s
Jost Cranes	JTL 208.12	12	12t @ 19.7m	2.6t @ 55m	n/s	30	110	12	100	87
Jost Cranes	JTL 218.12	12	12t @ 19.4m	3.3t @ 50m	n/s	30	188	12	100	87
Jost Cranes	JTL 268.12	12	12t @ 23m	3.4t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JTL 318.12	12	12t @ 25m	4.5t @ 55m	n/s	30	188	15	100	87
Jost Cranes	JL 226.12	12	12t @ 20.4m	2.2t @ 60m	n/s	30	188	15	100	87
Jost Cranes	JL 266.12	12	12t @ 20.4m	3.1t @ 60m	n/s	30	188	15	100	87
Wilbert	WT 205L e.tronic	12	12@25	2@60	640	25	275	n/s	113	87
WOLFFKRAN	WOLFF 166 B	12	12@23	2.0@55	500	25/55	174	25	125.6	86
ENG	ETL 183	14	14.0@24.0	2.36@56.0	402	28	133	4	54.1	85
Potain	MR 225 A	14	14@18.8	2.15@55	n/s	30	198.5	n/s	55.9	86
ENG	EDK200	16	16.0@11.0	3.82@31.7	508	17.2	182	3.7	44.6	85
Jost Cranes	JTL 268.16	16	16t @ 17.5m	3.3t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JTL 318.16	16	16t @ 20m	4.4t @ 55m	n/s	30	146	21	100	87
Jost Cranes	JL 226.16	16	16t @ 15.4m	2.1t @ 60m	n/s	30	146	21	100	87



LUFFING JIB BY CAPACITY

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Jost Cranes	JL 256.16	16	16t @ 18.5m	3.1t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 266.16	16	16t @ 18.3m	3.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 316.16	16	16t @ 22.1m	4.0t @ 60m	n/s	30	140	15	100	87
Jost Cranes	JL 326.16	16	16t @ 22m	4.0t @ 60m	n/s	30	146	21	100	87
Jost Cranes	JL 366.16	16	16t @ 25.3m	4.4t @ 60m	n/s	30	146	21	100	87
Liebherr	190 HC-L 8/16 Litronic	16	16@18.2	2.5@55.0	892	30 to 55	363	0	60.3	n/s
Liebherr	230 HC-L 8/16 Litronic	16	16@20.3	1.9@60.0	892	30 to 60	363	0	85.2	n/s
Terex	CDK 100-16	16	16@9.56	3.2	n/s	16.5/30.3	59	0	n/s	n/s
Terex	CTL 180-16	16	16@17.7	2	425	30/55	145	0	72.4	85
COMANSA	LCL 190 18t	18	18@15	1.5@60	640	30 to 60	224	0	63.1	87
COMANSA	LCL 280 18t	18	18@25	2.9@60	640	30 to 60	224	0	53.2	87
COMANSA	LCL 310 18t	18	18@20	3.5@60	640	30 to 60	224	0	59	87
Jaso	J208PA	18	18.0@18.5	1.5@60	568	30	366	12	72.1	n/s
Jaso	J265PA	18	18.0@21.3	2.2@60	630	30	366	19	72.1	n/s
Jaso	J280PA.2R	18	18.0@26.2	3.0@60	818	30	220	19	74.3	n/s
Terex	CTL 260-18	18	18@18.7	3.1	470	30/55	130	0	72.4	85
Terex	CTL 272-18	18	18@18	2.6	470	30/60	130	0	72.4	85
ENG	ETL 253	20	20.0@24.0	3.35@60.0	558	29	203	5	68.7	85
Jost Cranes	JL 326.20	20	20t @ 17.7m	3.9t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 366.20	20	20t @ 20.3m	4.3t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 426.20	20	20t @ 24.2m	5.5t @ 60m	n/s	30	154	16	100	87
Jost Cranes	JL 526.20	20	20t @ 29m	5.3t @ 65m	n/s	30	154	16	100	87
Potain	MR 295 H20	20	20@19.4	2.7@60	n/s	30	245	n/s	63.7	86
COMANSA	LCL 280 24t	24	24@15	2.6@60	725	30 to 60	204	0	53.2	87
COMANSA	LCL 310 24t	24	24@15	3.2@60	725	30 to 60	204	0	59	87
COMANSA	LCL 500 24t	24	24@20	4.7@65	470	30 to 65	180	0	68.3	87
Jaso	J280PA.24.2R	24	24@20.9	2.7@60	828	30	218	14	72.6	n/s
Jost Cranes	JL 416.24	24	24t @ 20.3m	5.1t @ 60m	n/s	30	130	16	100	87
Jost Cranes	JL 426.24	24	24t @ 20.1m	5.3t @ 60m	n/s	30	172	15	100	87
Jost Cranes	JL 526.24	24	24t @ 24m	5.1t @ 65m	n/s	30	172	15	100	87
Jost Cranes	JL 626.24	24	24t @ 30m	7.0t @ 65m	n/s	30	172	15	100	87
Liebherr	280 HC-L 12/24 Litronic	24	24@20.2	3.2@60.0	1290	30 to 60	261	0	79.3	n/s
Liebherr	357 HC-L 12/24 Litronic	24	24@24.0	4.5@60.0	1290	30 to 60	303	0	70.6	n/s
Liebherr	542 HC-L 12/24 Litronic	24	24@29.4	4.8@65.0	1290	30 to 65	303	0	64.8	n/s
Potain	MR 418	24	24@20	5@60	n/s	30	254	n/s	82.7	86
Potain	MR 298	24	24@16.8	2.4@60	n/s	30	210	n/s	63.7	86
Terex	CTL 340-24	24	24@15.8	4	515	35/60	130	0	66.4	85
Terex	CTL 430-24	24	24@21.3	5.5	515	35/60	160	0	66.4	85
WOLFFKRAN	WOLFF 275 B	24	24@17.6	2.6@60.0	700	30/60	222	16	111.1	83
ENG	EDKH185	25	25.0@10.5	3.20@35.0	252	14	58	2	49.8	85
ENG	ETL 273	25	25.0@20.5	3.30@60.0	564	29	159	3	68.7	85
Liebherr	280 HC-L 16/28 Litronic	28	28@17.0	3.0@60.0	1143	30 to 60	194	0	79.3	n/s
WOLFFKRAN	WOLFF 355 B	28	28@19.8	4.4@60.0	920	30/60	290	40	115.6	85
COMANSA	LCL 500 30t	30	30@15	4.2@65	400	30 to 65	176	0	62.8	87
Favelle Favco	M220D	32	32@10	3.0@53	n/s	27/55	210	n/s	56	85
Favelle Favco	M380F	32	32@15	3.0@63	n/s	36/64	250	n/s	56	85
Jaso	J438PA	32	32@20.8	3.0@65	874	30	181	18	74.3	n/s
Jost Cranes	JL 616.32	32	32t @ 23.2m	9.1t @ 60m	n/s	30	134	17	100	87
Jost Cranes	JL 626.32	32	32t @ 22.6m	6.8t @ 65m	n/s	30	188	21	100	87
Liebherr	357 HC-L 18/32 Litronic	32	32@18.2	4.1@60.0	1101	30 to 60	193	0	70.6	n/s
Potain	MR 608	32	32@22.6	9@60	n/s	30	204	n/s	77.8	86
Potain	MR 618	32	32@22.2	8.25@60	n/s	30	216	n/s	74.4	85
Terex	CTL 630B-32	32	32@23.2	6.7	495	35/65	202	0	76	85
Wilbert	WT 405L e.tronic	32	32@19.9	4.7@61.5	900	27	200	n/s	100	87
Jaso	J380PA	36	36@18.8	3.0@65	874	30	181	9	74.3	n/s
Jaso	J450PA	36	36@18.6	3.0@65	674	30	188	9	74.3	n/s
Liebherr	542 HC-L 18/36 Litronic	36	36@20.8	4.3@65.0	1101	30 to 65	193	0	64.8	n/s
WOLFFKRAN	WOLFF 630 B	42	42@18.5	5.4@70.0	990	30/70	190	33	65.2	84

## LUFFING JIB BY CAPACITY

Manufacturer	Model	Max lifting capacity	Max load up to? radius (t@m)	Max load @max radius	Max. Hook Height (m)	Min jib length (m)	Max Hoist speed (m/min)	Min Hoist Speed	Max free standing height (m)	Max jib angle (°)
Terex	CTL 650F-45	45	45@15.5	7	910	35/65	277	0	76	85
Wilbert	WT 905L e.tronic	48	48@29.5	10.0@78	900	15	200	n/s	133	87
COMANSA	LCL 700 50t	50	50@20	7.5@65	1270	30 to 65	169	0	69.8	87
Favelle Favco	M440D	50	50@13	2.7@65	n/s	36/69	158	n/s	56	85
Favelle Favco	MK440E	50	50@13	2.7@65	n/s	32/69	160	n/s	56	85
Liebherr	710 HC-L 25/50 Litronic	50	50@21.4	7.6@65.0	1161	30 to 65	218	0	74.8	n/s
WOLFFKRAN	WOLFF 700 B	50	50@17.1	5.9@70.0	990	30/70	190	33	100.1	84
WOLFFKRAN	WOLFF 1250 B	60	60@28.2	12.1@80.0	990	40/80	190	11	95	84
COMANSA	LCL 700 64t	64	64@15	7.2@65	1015	30 to 65	129	0	69.8	87
Favelle Favco	M760D	64	64@15	4.0@70	n/s	36/73	122	n/s	56	85
Favelle Favco	MK760E	64	64@12	4.0@70	n/s	36/73	150	n/s	56	85
Jaso	J780PA.64	64	64@18.9	6.0@70	830	30	188	11	86.1	n/s
Liebherr	710 HC-L 32/64 Litronic	64	64@16.4	7.2@65.0	1067	30 to 65	176	0	74.8	n/s
Wilbert	WT 1305L e.tronic	64	64@24	14@78	900	15	200	n/s	133	87
Terex	CTL 1600-66	66	66@27.6	16	960	40/75	185	0	89	85
Jaso	J780PA	75	75@16.8	5.7@70	1007	30	310	8	86.1	n/s
Wilbert	WT 1905L e.tronic	80	80@24.5	19@78	900	15	200	n/s	128	87
Wilbert	WT 2405L e.tronic	128	128@19.5	19.5@78	900	15	200	n/s	122.9	87
Favelle Favco	M1280D	150	150@17.4	12.1@81	n/s	36/83	110	n/s	72	85
Favelle Favco	M2480D	330	330@14.4	20.6@91	n/s	27/93	95	n/s	76	85
Potain	MR 295 H16	16 t	16 @ 23.4	2.8 @ 60	n/s	30	248	n/s	63.7	86

## SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
COMANSA	5LC3510 4t	4	4@10	1.1@35	125	20 / 35	92	2	75.9
COMANSA	5LC4010 4t	4	4@12.5	1.1@40	125	20 / 40	92	2	75.9
COMANSA	5LC4510 4t	4	4@15	1.1@45	125	20 / 45	92	2	70.9
COMANSA	5LC5010 4t	4	4@17.5	1.1@50	125	20 / 50	92	2	70.9
COMANSA	5LC3510 5t	5	5@7.5	1.1@35	125	20 / 35	74	2.5	75.9
COMANSA	5LC4010 5t	5	5@10	1.1@40	125	20 / 40	74	2.5	75.9
COMANSA	5LC4510 5t	5	5@12.5	1.1@45	125	20 / 45	74	2.5	70.9
COMANSA	5LC5010 5t	5	5@15	1.1@50	125	20 / 50	74	2.5	70.9
COMANSA	11LC90 5t	5	5@16.6	1.3@52.5	165	30 / 52.5	76	2.5	68.5
COMANSA	11LC132 5t	5	5@27.5	1.3@60	165	30 / 60	76	2.5	108.8
COMANSA	11LC90 6t	6	6@15.2	1.3@52.5	220	30 / 52.5	154	3	68.5
COMANSA	11LC132 6t	6	6@23.5	1.3@60	310	30 / 60	230	3	108.8
COMANSA	11LC150 8t	8	8@19.4	1.8@60	580	30 / 60	310	0	103.3
COMANSA	11LC160 8t	8	8@20.1	1.5@60	580	30 / 65	310	0	103.3
COMANSA	16LC185 8t	8	8@24.9	2.1@65	310	30 / 65	194	0	104.8
COMANSA	16LC185 10t	10	10@20.2	1.9@65	400	30 / 65	245	0	104.3
COMANSA	16LC220 10t	10	10@23.3	2.3@65	400	30 / 65	245	0	104.3
COMANSA	16LC260 10t	10	10@30.1	2.3@70	400	35 / 70	245	0	102.1
COMANSA	16LC185 12t	12	12@17.2	1.9@65	660	30 / 65	330	0	104.3
COMANSA	16LC220 12t	12	12@19.8	2.3@65	660	30 / 65	330	0	104.3
COMANSA	16LC260 12t	12	12@25.6	2.3@70	660	35 / 70	330	0	102.1
COMANSA	21LC335 12t	12	12@29.7	2.9@74	395	40 / 74	330	0	98.9
COMANSA	21LC335 20t	20	20@17.9	2.9@74	640	40 / 74	290	0	98.9
COMANSA	21LC450 20t	20	20@24.7	3.3@80	640	40 / 80	290	0	110.8
COMANSA	21LC550 20t	20	20@27.9	4.4@80	640	40 / 80	290	0	110.7
COMANSA	21LC660 20t	20	20@36.2	5.8@84	640	40 / 84	290	0	105.3
COMANSA	21LC660 25t	25	25@30	5.2@84	785	40 / 84	300	0	103.8
COMANSA	21LC750 25t	25	25@38.9	8.0@80	785	40 / 80	300	0	98.2
COMANSA	21LC450 25t	25	25@19.1	2.8@80	785	40 / 80	202	0	109.3
COMANSA	21LC550 25t	25	25@21.8	3.9@80	790	40 / 80	202	0	103.7



SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
COMANSA	21LC1050 25t	25	25@46.6	11.8@80	785	30 / 80	300	0	98.2
COMANSA	30LC1100 32t	32	32@38.2	12.1@80	725	40 / 80	259	0	108.3
COMANSA	30LC1450 32t	32	32@50.5	16@80	725	40 / 80	259	0	102.8
COMANSA	21LC660 37.5t	37.5	37.5@20.5	5.2@84	785	40 / 84	300	0	103.8
COMANSA	21LC750 37.5t	37.5	37.5@26.4	8.0@80	785	40 / 80	300	0	98.2
COMANSA	21LC1050 37.5t	37.5	37.5@32.7	11.8@80	785	30 / 80	300	0	98.2
COMANSA	30LC1100 48t	48	48@26.6	12.1@80	725	40 / 80	259	0	108.3
COMANSA	30LC1450 48t	48	48@35.4	16@80	725	40 / 80	259	0	102.8
COMANSA	21LC660 50t	50	50@16.1	4.6@84	785	40 / 84	150	0	103.8
COMANSA	21LC750 50t	50	50@20.6	7.3@80	785	40 / 80	150	0	98.2
COMANSA	21LC1050 50t	50	50@25.9	11.2@80	785	30 / 80	150	0	98.2
COMANSA	30LC1100 64t	64	64@20.2	10.4@80	362.5	40 / 80	130	0	108.3
COMANSA	30LC1450 64t	64	64@26.8	14.8@80	362.5	40 / 80	130	0	102.8
COMANSA	30LC1450 90t	90	90@18	26.4@60	362.5	40 / 60	93	0	96.8
ENG	ETT60	4	4.0@15.8	1.05@45.0	152	11.0/45.0	48	2	42.5
ENG	ETT90	5	5.0@19.1	1.35@51.0	205	18.0/51.0	82	3	42.5
ENG	ETT115	8	8.0@19.0	1.21@63.0	245	34.0/63.0	163	4	67.9
ENG	ETT145	10	10.0@18.1	1.30@65.0	252	38.0/65.0	131	5	62.5
ENG	ETT192	10	10.0@24.1	2.31@65.0	298	25.0/65.0	131	5	66.1
ENG	ETT202	12	12.0@20.7	1.87@70.0	306	25.0/70.0	115	5	66.3
ENG	ETT244	12	12.0@28.8	1.76@75.0	347	33.0/75.0	115	5	55.2
ENG	ETT344	16	16.0@26.7	3.41@75.0	359	37.0/75.0	112	4	63.5
ENG	ETT450	24	24.0@23.2	3.30@80.0	398	30.0/80.0	173	4	90.7
ENG	ETT531	25	25.0@22.7	2.20@86.0	400	36.0/86.0	159	3	90.7
ENG	ETT791	40	40.0@21.4	4.07@90.0	402	42.0/90.0	93	2	90.5
Jaso	J37NS	4	4.0@11.3	1.0@37.0	189	20.0/37.0	82	3	77
Jaso	J42NS	5	5.0@12.6	1.1@42.0	189	20.0/42.0	82	2.5	72.6
Jaso	J47NS	5	5.0@15.1	1.0@47.0	189	20.0/47.0	100	4	88.5
Jaso	J52NS	5	5.0@18.9	1.1@52.0	189	20.0/52.0	102	4	85.6
Jaso	J85	6	6.0@19.32	1.2@55	240	25.0/55.0	80	3	86.7
Jaso	J 115.8	8	8.0@17.2	1.3@60	534	25/60	100	12.5	82.4
Jaso	J 145.A	8	8.0@20.26	2.0@60	534	30/60	100	12.5	82.9
Jaso	J150.8.2R	8	8.0@22.7	1.4@65	352	27.5/65	160	12.5	81.5
Jaso	J120.10	10	10.0@17.1	1.6@60	534	27.5/60	80	12.5	85.6
Jaso	150.10	10	10.0@19.4	1.6@65	534	27.5/65	80	12.5	81.5
Jaso	160.10	10	10.0@17.0	1.7@65	534	30/65	80	3	83.2
Jaso	J 190N.10.A	10	10.0@24.6	2.75@60	534	30/60	80	3.5	93.4
Jaso	J 210.A	10	10.0@26.0	3.0@60	534	30/60	80	3.5	88.4
Jaso	J 215	10	10.0@26.0	2.3@65	534	30/60	80	3.5	88.4
Jaso	J 260N.A	12	12.0@29.39	2.7@70	364	35/70	120	17.5	93.4
Jaso	J 300N.A	12	12.0@29.43	2.7@75	364	35/75	120	17.5	93.4
Jaso	J 300N.2R.A	12	12.0@7.7	2.5@75	284	35/75	185	17.5	93.4
Jaso	J 300N.16.A	16	16.0@21.0	2.5@75	528	35/75	125	17.5	93.4
Jaso	J360	18	18.0@24.6	4.0@60	328	30/60	145	13	90.7
Jaso	J360.24	24	24.0@19.0	5.0@55	314	30/55	115	10	90.7
Jaso	J420	24	24.0@23.2	2.5@85	828	30/85	205	14	80
Jaso	J560	24	24.0@27.2	2.5@85	828	30/85	331	14	80
Jaso	J 600.24.A	24	24.0@28.0	5.1@80	436	34.5/80	185	14	86.4
Jaso	J 700	24	24.0@31.9	5.5@80	436	34.5/80	185	14	86.4
Jaso	J 720	36	36.0@22.0	5.2@80	409	34.5/80	110	9	86.4
Jaso	J 1400	64	64.0@24.3	10.5@80	456	25/80	94	9	69.3
Liebherr	71 EC-B 5 FR.tronic	5	5.00@16.9	1.00@50.0	260	20 to 50	149	0	45.7
Liebherr	85 EC-B 5 (2/4)	5	5.00@16.4	1.30@50	278	20 to 50	80	0	47.8
Liebherr	85 EC-B 5 FR.tronic	5	5.00@16.9	1.30@50.0	260	20 to 50	149	0	47.8
Liebherr	125 EC-B 6	6	6.00@22.3	1.6@58	250	20 to 58	123	0	61.5
Liebherr	150 EC-B 8 Litronic	8	8.00@22.5	1.40@62.5	328	24.4 to 62.5	174	0	72.4
Liebherr	172 EC-B 8 Litronic	8	8.00@24.3	1.80@62.5	328	24.4 to 62.5	174	0	75.5
Liebherr	202 EC-B 10 Litronic	10	10.00@22.90	2.20@65	321	24.7 to 65	139	0	72.9

## SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Liebherr	220 EC-B 10	10	10.00@19.8	2.6@65	n/s	n/s to 65	230	n/s	n/s
Liebherr	240 EC-B 10	10	10.00@20.1	2.85@65	n/s	n/s to 65	143	n/s	n/s
Liebherr	220 EC-B 12	12	12.00@16	2.4@65	n/s	n/s to 65	192	n/s	n/s
Liebherr	240 EC-B 12	12	12.00@16.5	2.85@65	n/s	n/s to 65	119	n/s	n/s
Liebherr	250 EC-B 12 Litronic	12	12.00@25.7	2.25@70.00	325	24.4 to 70	266	0	87.2
Liebherr	340 EC-B 12	12	12.00@28	2.4@78	325	24.4 to 78	267	0	94.6
Liebherr	370 EC-B 12 Fibre	12	12.00@31	2.8@78	325	24.4 to 78	267	0	94.6
Liebherr	380 EC-B 12 Litronic	12	12.00@34.80	3.70@75.0	325	30 to 75	266	0	92.3
Liebherr	380 EC-B 16 Litronic	16	16.00@26.3	3.40@75.0	276	30 to 75	243	0	86.5
Liebherr	550 EC-H 20 Litronic	20	20.00@37.60	4.00@81.5	520	41.5 to 81.5	191	0	84.5
Liebherr	550 EC-H 40 Litronic	40	40.00@18.30	4.00@81.5	520	40 to 81.5	191	0	85.5
Liebherr	630 EC-H 40 Litronic	40	40.00@18.90	5.80@80	520	36 to 80	191	0	80
Liebherr	1000 EC-H 40 Litronic	40	40.00@27.40	11.50@80	520	34.5 to 80	191	0	88.4
Liebherr	1250 HC 40	40	40.00@31.00	12.50@81	520	40 to 81	97	0	79
Liebherr	630 EC-H 50 Litronic	50	50.00@15.20	5.20@80	334	36 to 80	153	0	80
Liebherr	1000 EC-H 50 Litronic	50	50.00@21.6	11.00@80	334	34.5 to 80	140	0	85.5
Liebherr	1250 HC 50	50	50.00@24.30	12.00@81.00	441	40 to 81	77	0	79
Liebherr	2000 HC 60	60	60.00@34.90	19.00@80	226	48 to 80	105	0	91.8
Liebherr	3150 HC 60	60	60.00@50.70	32.00@80.0	226	39.2 to 80	105	0	73.8
Liebherr	4000 HC 100	100	100.00@36.30	22.50@96.00	360	60 to 96	136	0	67.6
Liebherr	1000 EC-B 100 Litronic	100	100.00@11	9.6@46.5	257	31.5 to 46.5	32	0	85.1
Liebherr	1000 EC-B 125 Litronic	125	125.00@9.0	19.35@31.5	257	36.5 to 36.5	22	0	110.8
Liebherr	340 EC-B 16	16	16.00@21	2.1@78	276	24.4 to 78	192	0	94.6
Liebherr	420 EC-H 16 Litronic	16	16.00@30	3.7@75	276	40 to 75	150	0	87.1
Potain	MDT109	6	6@17.8	1.35@55	n/s	55	96	n/s	53.5
Potain	MDT139	6	6@24.8	1.9@55	n/s	55	163	n/s	54.7
Potain	MDT189	8	8@24.5	1.8@60m	n/s	60	121	n/s	68.6
Potain	MDT219 J8	8	8@29.2	1.95@65m	n/s	65	121	n/s	66.8
Potain	MDT219 J10	10	10@21.7	1.9@60m	n/s	65	100	n/s	66.8
Potain	MDT 249 J10	10	10@24.6	2.75@65m	n/s	65	215	n/s	43.3
Potain	MDT 269 J10	10	10@24.8	3.3@65	n/s	65	215	n/s	69
Potain	MDT 259 J12	12	12 @ 21.6	2.9@65	n/s	65	220	n/s	66.2
Potain	MDT 269 J12	12	12 @ 21.6	3.1@65	n/s	65	220	n/s	69
Potain	MDT 319	12	12 @ 24.9	3.2@70	n/s	70	220	n/s	70.6
Potain	MDT 389 L12	12	12 @ 29.9	3.4@75	n/s	75	220	n/s	95.7
Potain	MDT 389 L16	16	16 @ 25.8	3.3@75	n/s	75	167	n/s	94
Potain	MD 509 M20	20	20 @ 24.3	3.7@80	n/s	80	245.5	n/s	87.8
Potain	MD 559	20	20@30	4.7@80	n/s	80	162	n/s	73.2
Potain	MD 509 M25	25	25@20	3.7@80	n/s	80	192	n/s	87.8
Potain	MD 569	25	25@24.7	5.8@80	n/s	80	192	n/s	73.2
Potain	MD 689 M25	25	25@29.3	6.7@80	n/s	80	192	n/s	87.7
Potain	MD 689 M40	40	40@18.5	6.0@80	n/s	80	162	n/s	87.7
Potain	MD 1100	50	50@22.1	9.5@80	n/s	80	141	n/s	87.4
Potain	MD 1600	64	64@27.1	17.4@80	n/s	80	124	n/s	94.2
Potain	MD 2200	64	64@35	23.5@80	n/s	80	124	n/s	104.5
Potain	MD 3200	80	80@37	38.7@70	n/s	85	160	n/s	104.5
Potain	MCT 68	3	3@20	1.1@46	n/s	46	86	n/s	51.6
Potain	MCT 88	5	5@16.3	1.1@52	n/s	52	82	n/s	50.5
Potain	MDT 259 J10	10	10@24.8	3.1@65	n/s	65	215	n/s	66.2
Potain	MDT 249 J12	12	12@20.4	2.6@65	n/s	65	220	n/s	43.3
Potain	MDT349 L12	12	12@30	3.2@75	n/s	75	220	n/s	69.2
Potain	MDT349 L16	16	16@22.5	3 @ 75	n/s	75	167	n/s	69.2
Saez	TL 50 5T	5	5@13.6	1.1@50	240	21/50	80	n/s	120
Saez	TL 55 5T	5	5@16.7	1.2@55	240	21/55	80	n/s	120
Saez	TLS 60 8T	8	8@14.6	1.4@60	320	25/60	104	n/s	114
Saez	TLS 65 8T	8	8@16.4	1.6@65	320	25/65	104	n/s	114
Saez	TLS 65B 10T	10	10@15.8	2@65	320	25/65	104	n/s	114
Saez	TLS 70 12T	12	12@17	2.2@70	300	30/70	118	n/s	110



SADDLE JIB BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Saez	TLS 75 16T	16	16@17.2	2.9@75	300	30/75	119	n/s	100
Saez	TLS 80 24T	18	24@15.2	3.2@80	250	30/80	214	n/s	100
Terex	FC 6.24H	1.5	1.5@12.6	0.6@24	43.1	12.6/24	36	0	26
Terex	CTT 91-5	5	5@20.94	1.4@50	155	25/50	69	0	45.75
Terex	CTT 132-6	6	6@27.66	1.4@60	155	30/60	80	0	55.3
Terex	CTT 162-8	8	8@23.06	1.5@65	255	30/65	101	0	67.2
Terex	CTT 182-8	8	8@25.69	2.0@65	255	35/65	135	0	67.2
Terex	CTT 191-10	10	10@21.58	2.0@65	265	30/65	95	0	61.3
Terex	CTT 231-12	12	12@26.61	2.1@70	340	30/70	162	0	62.2
Terex	CTT 332-16	16	16@24.00	3.0@75	360	30/75	145	0	98.35
Terex	CTT 472-20	20	20@25.02	3.70@80	495	30 / 80	190	0	90.24
Terex	CTT 561A-20	20	20@31.72	2.2@84	250	39/84	118	0	85.2
Terex	SK 415-20	20	20@26.1	2.3@80	260	35/80	110	0	65.5
Terex	SK 452-20	20	20@26.1	2.5@80	495	35/80	190	0	88.2
Terex	CTT 561A-32	32	32@20.11	1.5@80	239	39/84	170	0	85.2
Terex	SK 575-32	32	32@20.4	3.9@80	216.5	40/80	126	0	65
Terex	CTT 721-40	40	40@18	3.4@80	239	39/84	146	0	79.4
Wilbert	WT 150 e.tronic	6	6@25	2@60	160	25/60	120	n/s	95.6
Wilbert	WT 200 e.tronic	8	8@25	1.7@65	160	25/65	130	n/s	92.5
Wilbert	WT 260 e.tronic	12	12@25	2.7@70	190	25/70	137	n/s	100
Wilbert	WT 320 e.tronic	12	12@25	3.3@75	610	25/75	224	n/s	85.8
Wilbert	WT 300 e.tronic	16	16@25	4@70	610	25/70	224	n/s	98.8
Wilbert	WT 420 e.tronic	16	16@30	2.8@85	610	30/85	240	n/s	79.5
Wilbert	WT 650 e.tronic	32	32@24	6.3@82.5	500	30/82.5	240	n/s	83.7
WOLFFKRAM	WOLFF 4518 city	6	6@17.3	1.3@50	100	25/50	55	15	59.5
WOLFFKRAM	WOLFF 5014	6	6@17.8	1.4@50	190	25/50	108	24	n/s
WOLFFKRAM	WOLFF 5020.6	6.2	6.2@22.5	1.5@55	190	20/55	52	23	108.2
WOLFFKRAM	WOLFF 6015.6	6.2	6.2@25.9	1.5@60	190	25/60	52	23	108.2
WOLFFKRAM	WOLFF 6531.6	6.2	6.2@45.7	3.7@65	460	30/65	230	56	94.7
WOLFFKRAM	WOLFF 6023.6	6.2	6.2@35	2.3@60	190	25/60	52	23	103.7
WOLFFKRAM	WOLFF 5020.8	8.5	8.5@17.0	1.5@55	190	20/55	115	26	108.2
WOLFFKRAM	WOLFF 6015.8	8.5	18.5@19.6	1.5@60	190	25/60	115	26	108.2
WOLFFKRAM	WOLFF 6023.8	8.5	8.5@26.6	2.3@60	460	25/60	170	42	103.7
WOLFFKRAM	WOLFF 6031.8	8.5	8.5@30.5	3.1@60	190	30/65	170	42	131.7
WOLFFKRAM	WOLFF 7032.8	8.5	8.5@37.9	3.2@70	460	25/70	185	44	103.7
WOLFFKRAM	WOLFF 6531.8	8.5	8.5@37	3.7@65	190	30/65	115	26	94.7
WOLFFKRAM	WOLFF 8033.8	8.5	8.5@55	3.3@80	460	30/80	185	44	124.2
WOLFFKRAM	WOLFF 7534.8	8.5	8.5@47.3	3.7@75	460	30/75	185	44	130.2
WOLFFKRAM	WOLFF 6031.12	12	12@23.3	2.2@65	460	30/65	170	29	131.7
WOLFFKRAM	WOLFF 7032.12	12	12@27.5	2.9@70	460	25/70	185	31	103.3
WOLFFKRAM	WOLFF 6531.12	12	12@26.4	3.4@65	460	30/65	230	29	94.3
WOLFFKRAM	WOLFF 7532.12	12	12@32.6	3.4@75	460	30/75	230	29	89.8
WOLFFKRAM	WOLFF 7532.16	16.5	16.5@24.6	3.3@75	460	30/75	170	21	89.8
WOLFFKRAM	WOLFF 7534.16	16.5	16.5@26.3	3.3@75	460	30/75	185	23	130.2
WOLFFKRAM	WOLFF 8033.16	16.5	16.5@29.5	2.9@80	460	30/80	185	44	122.6
WOLFFKRAM	WOLFF 9025	20	20@24.4	2.5@90	400	30/90	125	18	84.7
WOLFFKRAM	WOLFF 8033.20	20	20@26.7	2.9@80	400	30/80	190	28	122.6
WOLFFKRAM	WOLFF 8540.20	20	20@30.7	4@85	400	30/85	125	18	88.2
WOLFFKRAM	WOLFF 6071	20	20@31.8	7.1@60	400	30/60	125	18	88.2
WOLFFKRAM	WOLFF 8060.25	25	25@30	6@80	400	30/80	159	22	74.7
WOLFFKRAM	WOLFF 8540.40	40	40@15.6	4@85	400	30/85	125	18	82.2
WOLFFKRAM	WOLFF 8060.50	50	50@15.2	6@80	400	30/80	159	11	68.7
Zoomlion	T8030-25	25	25@20	3@80	72	40/80	150	6	74.45

## SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Terex	FC 6.24H	1.5	1.5@12.6	0.6@24	43.1	12.6/24	36	0	26
Potain	MCT 68	3	3@20	1.1@46	n/s	46	86	n/s	51.6
COMANSA	5LC3510 4t	4	4@10	1.1@35	125	20 / 35	92	2	75.9
COMANSA	5LC4010 4t	4	4@12.5	1.1@40	125	20 / 40	92	2	75.9
COMANSA	5LC4510 4t	4	4@15	1.1@45	125	20 / 45	92	2	70.9
COMANSA	5LC5010 4t	4	4@17.5	1.1@50	125	20 / 50	92	2	70.9
ENG	ETT60	4	4.0@15.8	1.05@45.0	152	11.0/45.0	48	2	42.5
Jaso	J37NS	4	4.0@11.3	1.0@37.0	189	20.0/37.0	82	3	77
COMANSA	5LC3510 5t	5	5@7.5	1.1@35	125	20 / 35	74	2.5	75.9
COMANSA	5LC4010 5t	5	5@10	1.1@40	125	20 / 40	74	2.5	75.9
COMANSA	5LC4510 5t	5	5@12.5	1.1@45	125	20 / 45	74	2.5	70.9
COMANSA	5LC5010 5t	5	5@15	1.1@50	125	20 / 50	74	2.5	70.9
COMANSA	11LC90 5t	5	5@16.6	1.3 @ 52.5	165	30 / 52.5	76	2.5	68.5
COMANSA	11LC132 5t	5	5@27.5	1.3@60	165	30 / 60	76	2.5	108.8
ENG	ETT90	5	5.0@19.1	1.35@51.0	205	18.0/51.0	82	3	42.5
Jaso	J42NS	5	5.0@12.6	1.1@42.0	189	20.0/42.0	82	2.5	72.6
Jaso	J47NS	5	5.0@15.1	1.0@47.0	189	20.0/47.0	100	4	88.5
Jaso	J52NS	5	5.0@18.9	1.1@52.0	189	20.0/52.0	102	4	85.6
Liebherr	71 EC-B 5 FR.tronic	5	5.00@16.9	1.00@50.0	260	20 to 50	149	0	45.7
Liebherr	85 EC-B 5 (2/4)	5	5.00@16.4	1.30@50	278	20 to 50	80	0	47.8
Liebherr	85 EC-B 5 FR.tronic	5	5.00@16.9	1.30@50.0	260	20 to 50	149	0	47.8
Potain	MCT 88	5	5@16.3	1.1@52	n/s	52	82	n/s	50.5
Saez	TL 50 5T	5	5@13.6	1.1@50	240	21/50	80	n/s	120
Saez	TL 55 5T	5	5@16.7	1.2@55	240	21/55	80	n/s	120
Terex	CTT 91-5	5	5@20.94	1.4@50	155	25/50	69	0	45.75
COMANSA	11LC90 6t	6	6@15.2	1.3@52.5	220	30 / 52.5	154	3	68.5
COMANSA	11LC132 6t	6	6@23.5	1.3@60	310	30 / 60	230	3	108.8
Jaso	J85	6	6.0@19.32	1.2@55	240	25.0/55.0	80	3	86.7
Liebherr	125 EC-B 6	6	6.00@22.3	1.6@58	250	20 to 58	123	0	61.5
Potain	MDT109	6	6@17.8	1.35@55	n/s	55	96	n/s	53.5
Potain	MDT139	6	6@24.8	1.9@55	n/s	55	163	n/s	54.7
Terex	CTT 132-6	6	6@27.66	1.4@60	155	30/60	80	0	55.3
Wilbert	WT 150 e.tronic	6	6@25	2@60	160	25/60	120	n/s	95.6
WOLFFKRAN	WOLFF 4518 city	6	6@17.3	1.3@50	100	25/50	55	15	59.5
WOLFFKRAN	WOLFF 5014	6	6@17.8	1.4@50	190	25/50	108	24	n/s
WOLFFKRAN	WOLFF 5020.6	6.2	6.2@22.5	1.5@55	190	20/55	52	23	108.2
WOLFFKRAN	WOLFF 6015.6	6.2	6.2@25.9	1.5@60	190	25/60	52	23	108.2
WOLFFKRAN	WOLFF 6531.6	6.2	6.2@45.7	3.7@65	460	30/65	230	56	94.7
WOLFFKRAN	WOLFF 6023.6	6.2	6.2@35	2.3@60	190	25/60	52	23	103.7
COMANSA	11LC150 8t	8	8@19.4	1.8@60	580	30 / 60	310	0	103.3
COMANSA	11LC160 8t	8	8@20.1	1.5@60	580	30 / 65	310	0	103.3
COMANSA	16LC185 8t	8	8@24.9	2.1@65	310	30 / 65	194	0	104.8
ENG	ETT115	8	8.0@19.0	1.21@63.0	245	34.0/63.0	163	4	67.9
Jaso	J 115.8	8	8.0@17.2	1.3@60	534	25/60	100	12.5	82.4
Jaso	J 145.A	8	8.0@20.26	2.0@60	534	30/60	100	12.5	82.9
Jaso	J150.8.2R	8	8.0@22.7	1.4@65	352	27.5/65	160	12.5	81.5
Liebherr	150 EC-B 8 Litronic	8	8.00@22.5	1.40@62.5	328	24.4 to 62.5	174	0	72.4
Liebherr	172 EC-B 8 Litronic	8	8.00@24.3	1.80@62.5	328	24.4 to 62.5	174	0	75.5
Potain	MDT189	8	8@24.5	1.8@60m	n/s	60	121	n/s	68.6
Potain	MDT219 J8	8	8@29.2	1.95@65m	n/s	65	121	n/s	66.8
Saez	TLS 60 8T	8	8@14.6	1.4@60	320	25/60	104	n/s	114
Saez	TLS 65 8T	8	8@16.4	1.6@65	320	25/65	104	n/s	114
Terex	CTT 162-8	8	8@23.06	1.5@65	255	30/65	101	0	67.2
Terex	CTT 182-8	8	8@25.69	2.0@65	255	35/65	135	0	67.2
Wilbert	WT 200 e.tronic	8	8@25	1.7@65	160	25/65	130	n/s	92.5
WOLFFKRAN	WOLFF 5020.8	8.5	8.5@17.0	1.5@55	190	20/55	115	26	108.2
WOLFFKRAN	WOLFF 6015.8	8.5	18.5@19.6	1.5@60	190	25/60	115	26	108.2
WOLFFKRAN	WOLFF 6023.8	8.5	8.5@26.6	2.3@60	460	25/60	170	42	103.7



SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
WOLFFKRAN	WOLFF 6031.8	8.5	8.5@30.5	3.1@60	190	30/65	170	42	131.7
WOLFFKRAN	WOLFF 7032.8	8.5	8.5@37.9	3.2@70	460	25/70	185	44	103.7
WOLFFKRAN	WOLFF 6531.8	8.5	8.5@37	3.7@65	190	30/65	115	26	94.7
WOLFFKRAN	WOLFF 8033.8	8.5	8.5@55	3.3@80	460	30/80	185	44	124.2
WOLFFKRAN	WOLFF 7534.8	8.5	8.5@47.3	3.7@75	460	30/75	185	44	130.2
COMANSA	16LC185 10t	10	10@20.2	1.9@65	400	30 / 65	245	0	104.3
COMANSA	16LC220 10t	10	10@23.3	2.3@65	400	30 / 65	245	0	104.3
COMANSA	16LC260 10t	10	10@30.1	2.3@70	400	35 / 70	245	0	102.1
ENG	ETT145	10	10.0@18.1	1.30@65.0	252	38.0/65.0	131	5	62.5
ENG	ETT192	10	10.0@24.1	2.31@65.0	298	25.0/65.0	131	5	66.1
Jaso	J120.10	10	10.0@17.1	1.6@60	534	27.5/60	80	12.5	85.6
Jaso	150.10	10	10.0@19.4	1.6@65	534	27.5/65	80	12.5	81.5
Jaso	160.10	10	10.0@17.0	1.7@65	534	30/65	80	3	83.2
Jaso	J 190N.10.A	10	10.0@24.6	2.75@60	534	30/60	80	3.5	93.4
Jaso	J 210.A	10	10.0@26.0	3.0@60	534	30/60	80	3.5	88.4
Jaso	J 215	10	10.0@26.0	2.3@65	534	30/60	80	3.5	88.4
Liebherr	202 EC-B 10 Litronic	10	10.00@22.90	2.20@65	321	24.7 to 65	139	0	72.9
Liebherr	220 EC-B 10	10	10.00@19.8	2.6@65	n/s	n/s to 65	230	n/s	n/s
Liebherr	240 EC-B 10	10	10.00@20.1	2.85@65	n/s	n/s to 65	143	n/s	n/s
Potain	MDT219 J10	10	10@21.7	1.9@60m	n/s	65	100	n/s	66.8
Potain	MDT 249 J10	10	10@24.6	2.75@65m	n/s	65	215	n/s	43.3
Potain	MDT 269 J10	10	10@24.8	3.3@65	n/s	65	215	n/s	69
Potain	MDT 259 J10	10	10@24.8	3.1@65	n/s	65	215	n/s	66.2
Saez	TLS 65B 10T	10	10@15.8	2@65	320	25/65	104	n/s	114
Terex	CTT 191-10	10	10@21.58	2.0@65	265	30/65	95	0	61.3
COMANSA	16LC185 12t	12	12@17.2	1.9@65	660	30 / 65	330	0	104.3
COMANSA	16LC220 12t	12	12@19.8	2.3@65	660	30 / 65	330	0	104.3
COMANSA	16LC260 12t	12	12@25.6	2.3@70	660	35 / 70	330	0	102.1
COMANSA	21LC335 12t	12	12@29.7	2.9@74	395	40 / 74	330	0	98.9
ENG	ETT202	12	12.0@20.7	1.87@70.0	306	25.0/70.0	115	5	66.3
ENG	ETT244	12	12.0@28.8	1.76@75.0	347	33.0/75.0	115	5	55.2
Jaso	J 260N.A	12	12.0@29.39	2.7@70	364	35/70	120	17.5	93.4
Jaso	J 300N.A	12	12.0@29.43	2.7@75	364	35/75	120	17.5	93.4
Jaso	J 300N.2R.A	12	12.0@7.7	2.5@75	284	35/75	185	17.5	93.4
Liebherr	220 EC-B 12	12	12.00@16	2.4@65	n/s	n/s to 65	192	n/s	n/s
Liebherr	240 EC-B 12	12	12.00@16.5	2.85@65	n/s	n/s to 65	119	n/s	n/s
Liebherr	250 EC-B 12 Litronic	12	12.00@25.7	2.25@70.00	325	24.4 to 70	266	0	87.2
Liebherr	340 EC-B 12	12	12.00@28	2.4@78	325	24.4 to 78	267	0	94.6
Liebherr	370 EC-B 12 Fibre	12	12.00@31	2.8@78	325	24.4 to 78	267	0	94.6
Liebherr	380 EC-B 12 Litronic	12	12.00@34.80	3.70@75.0	325	30 to 75	266	0	92.3
Potain	MDT 259 J12	12	12@21.6	2.9@65	n/s	65	220	n/s	66.2
Potain	MDT 269 J12	12	12@21.6	3.1@65	n/s	65	220	n/s	69
Potain	MDT 319	12	12@24.9	3.2@70	n/s	70	220	n/s	70.6
Potain	MDT 389 L12	12	12@29.9	3.4@75	n/s	75	220	n/s	95.7
Potain	MDT 249 J12	12	12@20.4	2.6@65	n/s	65	220	n/s	43.3
Potain	MDT349 L12	12	12@30	3.2@75	n/s	75	220	n/s	69.2
Saez	TLS 70 12T	12	12@17	2.2@70	300	30/70	118	n/s	110
Terex	CTT 231-12	12	12@26.61	2.1@70	340	30/70	162	0	62.2
Wilbert	WT 260 e.tronic	12	12@25	2.7@70	190	25/70	137	n/s	100
Wilbert	WT 320 e.tronic	12	12@25	3.3@75	610	25/75	224	n/s	85.8
WOLFFKRAN	WOLFF 6031.12	12	12@23.3	2.2@65	460	30/65	170	29	131.7
WOLFFKRAN	WOLFF 7032.12	12	12@27.5	2.9@70	460	25/70	185	31	103.3
WOLFFKRAN	WOLFF 6531.12	12	12@26.4	3.4@65	460	30/65	230	29	94.3
WOLFFKRAN	WOLFF 7532.12	12	12@32.6	3.4@75	460	30/75	230	29	89.8
ENG	ETT344	16	16.0@26.7	3.41@75.0	359	37.0/75.0	112	4	63.5
Jaso	J 300N.16.A	16	16.0@21.0	2.5@75	528	35/75	125	17.5	93.4
Liebherr	380 EC-B 16 Litronic	16	16.00@26.3	3.40@75.0	276	30 to 75	243	0	86.5
Liebherr	340 EC-B 16	16	16.00@21	2.1@78	276	24.4 to 78	192	0	94.6

## SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Liebherr	420 EC-H 16 Litronic	16	16.00@30	3.7@75	276	40 to 75	150	0	87.1
Potain	MDT 389 L16	16	16@25.8	3.3@75	n/s	75	167	n/s	94
Potain	MDT349 L16	16	16@22.5	3@75	n/s	75	167	n/s	69.2
Saez	TLS 75 16T	16	16@17.2	2.9@75	300	30/75	119	n/s	100
Terex	CTT 332-16	16	16@24.00	3.0@75	360	30/75	145	0	98.35
Wilbert	WT 300 e.tronic	16	16@25	4@70	610	25/70	224	n/s	98.8
Wilbert	WT 420 e.tronic	16	16@30	2.8@85	610	30/85	240	n/s	79.5
WOLFFKRAN	WOLFF 7532.16	16.5	16.5@24.6	3.3@75	460	30/75	170	21	89.8
WOLFFKRAN	WOLFF 7534.16	16.5	16.5@26.3	3.3@75	460	30/75	185	23	130.2
WOLFFKRAN	WOLFF 8033.16	16.5	16.5@29.5	2.9@80	460	30/80	185	44	122.6
Jaso	J360	18	18.0@24.6	4.0@60	328	30/60	145	13	90.7
Saez	TLS 80 24T	18	24@15.2	3.2@80	250	30/80	214	n/s	100
COMANSA	21LC335 20t	20	20@17.9	2.9@74	640	40 / 74	290	0	98.9
COMANSA	21LC450 20t	20	20@24.7	3.3@80	640	40 / 80	290	0	110.8
COMANSA	21LC550 20t	20	20@27.9	4.4@80	640	40 / 80	290	0	110.7
COMANSA	21LC660 20t	20	20@36.2	5.8@84	640	40 / 84	290	0	105.3
Liebherr	550 EC-H 20 Litronic	20	20.00@37.60	4.00@81.5	520	41.5 to 81.5	191	0	84.5
Potain	MD 509 M20	20	20@24.3	3.7@80	n/s	80	245.5	n/s	87.8
Potain	MD 559	20	20@30	4.7@80	n/s	80	162	n/s	73.2
Terex	CTT 472-20	20	20@25.02	3.70@80	495	30 / 80	190	0	90.24
Terex	SKT 561A-20	20	20@31.72	2.2@84	250	39/84	118	0	85.2
Terex	SK 415-20	20	20@26.1	2.3@80	260	35/80	110	0	65.5
Terex	SK 452-20	20	20@26.1	2.5@80	495	35/80	190	0	88.2
WOLFFKRAN	WOLFF 9025	20	20@24.4	2.5@90	400	30/90	125	18	84.7
WOLFFKRAN	WOLFF 8033.20	20	20@26.7	2.9@80	400	30/80	190	28	122.6
WOLFFKRAN	WOLFF 8540.20	20	20@30.7	4@85	400	30/85	125	18	88.2
WOLFFKRAN	WOLFF 6071	20	20@31.8	7.1@60	400	30/60	125	18	88.2
ENG	ETT450	24	24.0@23.2	3.30@80.0	398	30.0/80.0	173	4	90.7
Jaso	J360.24	24	24.0@19.0	5.0@55	314	30/55	115	10	90.7
Jaso	J420	24	24.0@23.2	2.5@85	828	30/85	205	14	80
Jaso	J560	24	24.0@27.2	2.5@85	828	30/85	331	14	80
Jaso	J 600.24.A	24	24.0@28.0	5.1@80	436	34.5/80	185	14	86.4
Jaso	J 700	24	24.0@31.9	5.5@80	436	34.5/80	185	14	86.4
COMANSA	21LC660 25t	25	25@30	5.2@84	785	40 / 84	300	0	103.8
COMANSA	21LC750 25t	25	25 @ 38.9	8.0@80	785	40 / 80	300	0	98.2
COMANSA	21LC450 25t	25	25@19.1	2.8@80	785	40 / 80	202	0	109.3
COMANSA	21LC550 25t	25	25@21.8	3.9@80	790	40 / 80	202	0	103.7
COMANSA	21LC1050 25t	25	25@46.6	11.8@80	785	30 / 80	300	0	98.2
ENG	ETT531	25	25.0@22.7	2.20@86.0	400	36.0/86.0	159	3	90.7
Potain	MD 509 M25	25	25@20	3.7@80	n/s	80	192	n/s	87.8
Potain	MD 569	25	25@24.7	5.8@80	n/s	80	192	n/s	73.2
Potain	MD 689 M25	25	25@29.3	6.7@80	n/s	80	192	n/s	87.7
WOLFFKRAN	WOLFF 8060.25	25	25@30	6@80	400	30/80	159	22	74.7
Zoomlion	T8030-25	25	25@20	3@80	72	40/80	150	6	74.45
COMANSA	30LC1100 32t	32	32@38.2	12.1@80	725	40 / 80	259	0	108.3
COMANSA	30LC1450 32t	32	32@50.5	16@80	725	40 / 80	259	0	102.8
Terex	CTT 561A-32	32	32@20.11	1.5@80	239	39/84	170	0	85.2
Terex	SK 575-32	32	32@20.4	3.9@80	216.5	40/80	126	0	65
Wilbert	WT 650 e.tronic	32	32@24	6.3@82.5	500	30/82.5	240	n/s	83.7
Jaso	J 720	36	36.0@22.0	5.2@80	409	34.5/80	110	9	86.4
COMANSA	21LC660 37.5t	37.5	37.5@20.5	5.2@84	785	40 / 84	300	0	103.8
COMANSA	21LC750 37.5t	37.5	37.5@26.4	8.0@80	785	40 / 80	300	0	98.2
COMANSA	21LC1050 37.5t	37.5	37.5@32.7	11.8@80	785	30 / 80	300	0	98.2
ENG	ETT791	40	40.0@21.4	4.07@90.0	402	42.0/90.0	93	2	90.5
Liebherr	550 EC-H 40 Litronic	40	40.00@18.30	4.00@81.5	520	40 to 81.5	191	0	85.5
Liebherr	630 EC-H 40 Litronic	40	40.00@18.90	5.80@80	520	36 to 80	191	0	80
Liebherr	1000 EC-H 40 Litronic	40	40.00@27.40	11.50@80	520	34.5 to 80	191	0	88.4
Liebherr	1250 HC 40	40	40.00@31.00	12.50@81	520	40 to 81	97	0	79



## SADDLE JIB BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Maximum Hook Height (m)	Jib Length Minimum/Maximum (m/m)	Maximum Hoist Speed (m/min)	Minimum Hoist Speed (m/min)	Max Freestanding Height (m)
Potain	MD 689 M40	40	40@18.5	6.0@80	n/s	80	162	n/s	87.7
Terex	CTT 721-40	40	40@18	3.4@80	239	39/84	146	0	79.4
WOLFFKRAN	WOLFF 8540.40	40	40@15.6	4@85	400	30/85	125	18	82.2
COMANSA	30LC1100 48t	48	48@26.6	12.1@80	725	40 / 80	259	0	108.3
COMANSA	30LC1450 48t	48	48@35.4	16@80	725	40 / 80	259	0	102.8
COMANSA	21LC660 50t	50	50@16.1	4.6@84	785	40 / 84	150	0	103.8
COMANSA	21LC750 50t	50	50@20.6	7.3@80	785	40 / 80	150	0	98.2
COMANSA	21LC1050 50t	50	50@25.9	11.2@80	785	30 / 80	150	0	98.2
Liebherr	630 EC-H 50 Litronic	50	50.00@15.20	5.20@80	334	36 to 80	153	0	80
Liebherr	1000 EC-H 50 Litronic	50	50.00@21.6	11.00@80	334	34.5 to 80	140	0	85.5
Liebherr	1250 HC 50	50	50.00@24.30	12.00@81.00	441	40 to 81	77	0	79
Potain	MD 1100	50	50@22.1	9.5@80	n/s	80	141	n/s	87.4
WOLFFKRAN	WOLFF 8060.50	50	50@15.2	6@80	400	30/80	159	11	68.7
Liebherr	2000 HC 60	60	60.00@34.90	19.00@80	226	48 to 80	105	0	91.8
Liebherr	3150 HC 60	60	60.00@50.70	32.00@80.0	226	39.2 to 80	105	0	73.8
COMANSA	30LC1100 64t	64	64@20.2	10.4@80	362.5	40 / 80	130	0	108.3
COMANSA	30LC1450 64t	64	64@26.8	14.8@80	362.5	40 / 80	130	0	102.8
Jaso	J 1400	64	64.0@24.3	10.5@80	456	25/80	94	9	69.3
Potain	MD 1600	64	64@27.1	17.4@80	n/s	80	124	n/s	94.2
Potain	MD 2200	64	64@35	23.5@80	n/s	80	124	n/s	104.5
Potain	MD 3200	80	80@37	38.7@70	n/s	85	160	n/s	104.5
COMANSA	30LC1450 90t	90	90@18	26.4@60	362.5	40 / 60	93	0	96.8
Liebherr	4000 HC 100	100	100.00@36.30	22.50@96.00	360	60 to 96	136	0	67.6
Liebherr	1000 EC-B 100 Litronic	100	100.00@11	9.6@46.5	257	31.5 to 46.5	32	0	85.1
Liebherr	1000 EC-B 125 Litronic	125	125.00@9.0	19.35@31.5	257	36.5 to 36.5	22	0	110.8



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## SELF-ERECTING BY MANUFACTURER

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Max Hook Height (m)	Jib Length Min/Max (m/m)	Max Hoist Speed (m/min)
ENG	GTA17	1.5	1.5@10.82	0.6@22.0	16.5	20 to 22	34
ENG	GTA22	2	2.0@11.7	0.75@25.0	23	23 to 25	36
ENG	GTA30	2	2.0@14.75	0.80@29.0	25.5	25 to 29	40
ENG	GTA45.B	4	4.0@11.40	1.0@32.0	27.4	28 to 32	48
ENG	GTA52	4	4.0@13.25	1.0@36.0	27	28 to 36	48
Liebherr	13 HM.1	1.5	1.50@10.4	0.50@22.0	16	20 to 22	25
Liebherr	22 HM	2	2.00@13.5	0.70@27.0	19	25 to 27	40
Liebherr	53 K (2)	2	2.00@28.0	1.10@40.0	31	28 to 40	89
Liebherr	34 K (2)	2.075	2.075@19.5	1.10@33.0	27	25.5 to 33	51.4
Liebherr	42 K.1 (2)	2.5	2.50@21.95	1.20@36.0	28	25.5 to 36	53.3
Liebherr	42 KR.1 (2)	2.5	2.50@22.0	1.20@36.0	28	25.5 to 36	53.3
Liebherr	34 K (2/4)	4	4.00@11.04	1.00@33.0	27	25.5 to 33	51.4
Liebherr	42 K.1 (2/4)	4	4.00@14.4	1.10@36.0	28	25.5 to 36	53.3
Liebherr	42 KR.1 (2/4)	4	4.00@14.4	1.10@36.0	28	25.5 to 36	53.3
Liebherr	L1-32	4	4@9.45	1.05@30	21.3	25 to 30	n/s
Liebherr	53 K (2/4)	4.2	4.20@15.3	1.00@40.0	30.4	28 to 40	89
Liebherr	65 K.1	4.5	4.50@17.60	1.10@43.0	34.6	28 to 43	74.1
Liebherr	81 K.1	6	6.00@16.3	1.35@48.0	40.4	31 to 48	76.1
Liebherr	125 K	8	8.00@16	1.3@55	41.5	35 to 55	66.3
Liebherr	MK 88	8	8.00@12.0	2.20@45.0	30.2	45	75
Liebherr	MK 140	8	8.00@14.5	1.00@65.0	37.7	58.3 to 65	n/s
Liebherr	L1-24	2.5	2.5@10.4	0.8@27	19.2	22 to 27	51
Potain	Hup 32-27	4	4@12.1	1@32	27	32	65
Potain	Hup 40-30	4	4@15.7	1@40	30	40	65
Potain	Igo 11	1.3	1.3@10.2	0.65@18	16	18	42.5
Potain	Igo 13	1.8	1.8@9.3	0.7@20	17	20	39
Potain	Igo 15	1.8	1.8@10.9	0.7@22	19	22	39
Potain	Igo 18	1.8	1.8@12	0.7@24	19	24	39
Potain	Igo 21	1.8	1.8@13.4	0.7@26	19	26	39
Potain	Igo 22	1.8	1.8@16	0.85@28	20	28	39
Potain	Igo M 14	1.8	1.8@9.1	0.6@22	19	22	39
Potain	Igo MA 21	1.8	1.8@13.4	0.7@26	19	26	39
Potain	Igo 30	2.2	2.2@14.6	0.9@30	21	30	48
Potain	Igo 32	4	4@10.8	1.1@30	22	30	66.5
Potain	Igo 50	4	4@15.7	1.1@40	23	40	66.5
Potain	Igo T 70 A	4	4@19.9	1.45@40	35	40	68
Potain	Igo T 85 A	6	6@15.7	1.4@45	38	45	69
Potain	Igo T 130	8	8@18.6	1.4@50	37	50	63
Saez	H 24 MTF	1.5	1.5@12.3	0.7@24	18	24	25
Saez	H 28	2	2@13.3	0.75@28	19	28	41
Saez	H 32 SR/DR	4	4@10.5	1@32	21	32	41
Saez	H 45	4	4@14.5	1.1@40	23.2	45	59
Saez	HT 45.14	6	6@15.6	1.4@45	38.9	45	69
Terex	CBR 21H	1.6	1.6@10	0.6	18.2	11.2-21	36
Terex	CBR 24 Plus	2	2@12.3	0.75	19.1	12.3-24	36
Terex	CBR 28 Plus	2.5	2.5@13.5	0.9	21.6	14.4-27.8	40
Terex	CBR 32 Plus	4	4@12.5	1	21.6	14.2-32	46
Terex	CBR 40H	4	4@14.5	1	25.6	27.2-40	46
Vicario	22-AR	1.8	1.8@8.64	0.6@21.9	17.2	10.7-21.9	37
Vicario	24-AR	1.8	1.8@8.8	0.5@24	17.2	11.8-24	37
Vicario	26-A SR	2.2	2.2@10.9	0.75@26	22.4	10.9-26	42
Vicario	350-SR	2.2	2.2@12.13	0.85@27	24	13.13-27	42
Vicario	30-A	4	4@9.6	1@30	24	14-30	56
Vicario	34-A	4	4@10.9	1@34	25	14-34	56
Vicario	370	4	4@12.4	1@38	25.5	28-38	56
Vicario	340	4	4@13.45	1@42	26	28-42	56
Vicario	45-A	4	4@14.45	1@45	27	30-45	56

SELF-ERECTING BY CAPACITY

Manufacturer	Model	Max Lifting Capacity (t)	Max Load up to ? Radius (t@m)	Max Load @ Max Radius (t@m)	Max Hook Height (m)	Jib Length Min/Max (m/m)	Max Hoist Speed (m/min)
Potain	Igo 11	1.3	1.3@10.2	0.65@18	16	18	42.5
ENG	GTA17	1.5	1.5@10.82	0.6@22.0	16.5	20 to 22	34
Liebherr	13 HM.1	1.5	1.5@10.4	0.50@22.0	16	20 to 22	25
Saez	H 24 MTF	1.5	1.5@12.3	0.7@24	18	24	25
Terex	CBR 21H	1.6	1.6@10	0.6	18.2	11.2-21	36
Potain	Igo 13	1.8	1.8@9.3	0.7@20	17	20	39
Potain	Igo 15	1.8	1.8@10.9	0.7@22	19	22	39
Potain	Igo 18	1.8	1.8@12	0.7@24	19	24	39
Potain	Igo 21	1.8	1.8@13.4	0.7@26	19	26	39
Potain	Igo 22	1.8	1.8@16	0.85@28	20	28	39
Potain	Igo M 14	1.8	1.8@9.1	0.6@22	19	22	39
Potain	Igo MA 21	1.8	1.8@13.4	0.7@26	19	26	39
Vicario	22-AR	1.8	1.8@8.64	0.6@21.9	17.2	10.7-21.9	37
Vicario	24-AR	1.8	1.8@8.8	0.5@24	17.2	11.8-24	37
ENG	GTA22	2	2.0@11.7	0.75@25.0	23	23 to 25	36
ENG	GTA30	2	2.0@14.75	0.80@29.0	25.5	25 to 29	40
Liebherr	22 HM	2	2.00@13.5	0.70@27.0	19	25 to 27	40
Liebherr	53 K (2)	2	2.00@28.0	1.10@40.0	31	28 to 40	89
Saez	H 28	2	2@13.3	0.75@28	19	28	41
Terex	CBR 24 Plus	2	2@12.3	0.75	19.1	12.3-24	36
Liebherr	34 K (2)	2.075	2.075@19.5	1.10@33.0	27	25.5 to 33	51.4
Potain	Igo 30	2.2	2.2@14.6	0.9@30	21	30	48
Vicario	26-A SR	2.2	2.2@10.9	0.75@26	22.4	10.9-26	42
Vicario	350-SR	2.2	2.2@12.13	0.85@27	24	13.13-27	42
Liebherr	42 K.1 (2)	2.5	2.50@21.95	1.20@36.0	28	25.5 to 36	53.3
Liebherr	42 KR.1 (2)	2.5	2.50@22.0	1.20@36.0	28	25.5 to 36	53.3
Terex	CBR 28 Plus	2.5	2.5@13.5	0.9	21.6	14.4-27.8	40
ENG	GTA45.B	4	4.0@11.40	1.0@32.0	27.4	28 to 32	48
ENG	GTA52	4	4.0@13.25	1.0@36.0	27	28 to 36	48
Liebherr	34 K (2/4)	4	4.00@11.04	1.00@33.0	27	25.5 to 33	51.4
Liebherr	42 K.1 (2/4)	4	4.00@14.4	1.10@36.0	28	25.5 to 36	53.3
Liebherr	42 KR.1 (2/4)	4	4.00@14.4	1.10@36.0	28	25.5 to 36	53.3
Liebherr	L1-32	4	4@9.45	1.05@30	21.3	25 to 30	n/s
Potain	Hup 32-27	4	4@12.1	1@32	27	32	65
Potain	Hup 40-30	4	4@15.7	1@40	30	40	65
Potain	Igo 32	4	4@10.8	1.1@30	22	30	66.5
Potain	Igo 50	4	4@15.7	1.1@40	23	40	66.5
Potain	Igo T 70 A	4	4@19.9	1.45@40	35	40	68
Saez	H 32 SR/DR	4	4@10.5	1@32	21	32	41
Saez	H 45	4	4 @ 14.5	1.1@40	23.2	45	59
Terex	CBR 32 Plus	4	4@12.5	1	21.6	14.2-32	46
Terex	CBR 40H	4	4@14.5	1	25.6	27.2-40	46
Vicario	30-A	4	4@9.6	1@30	24	14-30	56
Vicario	34-A	4	4@10.9	1@34	25	14-34	56
Vicario	370	4	4@12.4	1@38	25.5	28-38	56
Vicario	340	4	4@13.45	1@42	26	28-42	56
Vicario	45-A	4	4@14.45	1@45	27	30-45	56
Liebherr	53 K (2/4)	4.2	4.20@15.3	1.00@40.0	30.4	28 to 40	89
Liebherr	65 K.1	4.5	4.50@17.60	1.10@43.0	34.6	28 to 43	74.1
Liebherr	81 K.1	6	6.00@16.3	1.35@48.0	40.4	31 to 48	76.1
Potain	Igo T 85 A	6	6@15.7	1.4@45	38	45	69
Saez	HT 45.14	6	6@15.6	1.4@45	38.9	45	69
Liebherr	125 K	8	8.00@16	1.3@55	41.5	35 to 55	66.3
Liebherr	MK 88	8	8.00@12.0	2.20@45.0	30.2	45	75
Liebherr	MK 140	8	8.00@14.5	1.00@65.0	37.7	58.3 to 65	n/s
Potain	Igo T 130	8	8@18.6	1.4@50	37	50	63
Liebherr	L1-24	2.5	2.5@10.4	0.8@27	19.2	22 to 27	51



## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Effer	42/4S	1.8 t	0.33	37 ft 8 in	29 ft 8 in	67 in	1,280	1.984
Effer	65/4S	2.5 t	0.5	42 ft 2 in	34 ft 1 in	78 in	2,120	2.755
Effer	80/4S	2.8 t	0.6	43 ft 4 in	35 ft 4 in	82 in	2,225	3.086
Effer	100/4S	3.7 t	0.75	43 ft 7 in	34 ft 7 in	85 in	2,630	4.078
Effer	130/145	4.5 t	0.5	62 ft 1 in	55 ft 1 in	89 in	4,476	4.96
Effer	155/165	5.5 t	0.7	72 ft 11 in	62 ft 9 in	90 in	4,871	6.06
Effer	150/165	5.5 t	0.7	72 ft 11 in	62 ft 9 in	90 in	4,871	6.06
Effer	210	7 t	0.7	63 ft 10 in	56 ft 9 in	100 in	6,564	7.72
Effer	215/225	7 t	0.7	63 ft 10 in	56 ft 9 in	100 in	6,564	7.72
Effer	250	8.5 t	0.9	63 ft 10 in	56 ft 6 in	98 in	6,865	9.37
Effer	275/305	10 t	0.8	90 ft 11 in	83 ft 10 in	100 in	7,935	11.02
Effer	265/315	10 t	0.8	90 ft 11 in	83 ft 10 in	100 in	7,935	11.02
Effer	340/370	15 t	1	93 ft 7 in	86 ft 6 in	106 in	9,694	16.53
Effer	350/395	15 t	1	93 ft 7 in	86 ft 6 in	106 in	9,694	16.53
Effer	440/470	15 t	1.4	78 ft 2 in	70 ft 9 in	101 in	10,126	16.53
Effer	455/505	15 t	1.4	78 ft 2 in	70 ft 9 in	101 in	10,126	16.53
Effer	635/655	19.3 t	1.7	104 ft 8 in	96 ft 6 in	104 in	14,640	21.27
Effer	655/685	19.3 t	1.7	104 ft 8 in	96 ft 6 in	104 in	14,640	21.27
Effer	1355	24 t	3.6	111 ft 7 in	104 ft 10 in	105 in	22,125	26.46
Effer	750/850	26 t	2.2	82 ft 6 in	75 ft 9 in	98 in	16,520	28.66
Effer	955	27 t	3.1	80 ft	110 ft	106 in	17,510	28.66
Effer	1405	28 t	3.8	113 ft 5 in	106 ft 4 in	113 in	n/s	30.86
Effer	1750	32 t	5.9	111 ft 10 in	104 ft 9 in	114 in	30,420	35.27
Effer	2100	37 t	17.2	42 ft 5 in	35 ft 7 in	89 in	35,375	40.79
Effer	3000 VR	50 t	18	57 ft 6 in	50 ft 10 in	100 in	48,617	55.12
Effer	2200	37.9 t	4.9	162 ft 1 in	141 ft 10 in	93 in	41,625	41.78
Effer	2750	40.7 t	15.3	58 ft 9 in	51 ft 10 in	100 in	42,018	44.86
Fassi	M10A 12	2194	661 lbs @ 11 ft 7 in	15 ft 7 in	5 ft 2 in	3 ft 11 in	396	1
Fassi	F22A.0.22	2193	407 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	881	1
Fassi	F28A.0.23	2193	440 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	1,025	1
Fassi	F38A.0.23	2193	507 lbs @ 28 ft 8 in	33 ft 10 in	13 ft 1 in	5 ft 2 in	1,267	1
Fassi	M30A 13	4404	794 lbs @ 22 ft 4 in	27 ft 7 in	10 ft 5 in	5 ft 3 in	573	2
Fassi	F50A.0.24	5004	462 lbs @ 35 ft 5 in	41 ft 5 in	17 ft 6 in	5 ft 9 in	1,653	2.5
Fassi	F65B.1.24	6832	640 lbs @ 41 ft 11 in	46 ft 2 in	24 ft 6 in	6 ft 3 in	2050	3
Fassi	F85B.0.24	8377	903 lbs @ 43 ft 31 in	50 ft 4 in	30 ft 7 in	6 ft 5 in	2,579	4
Fassi	F95B.0.24	9744	220 lbs @ 59 ft 6 in	66 ft 8 in	30 ft 6 in	7 ft 2 in	3,593	5
Fassi	F135A.2.26	10251	110 lbs @ 81 ft 4 in	89 ft	40 ft 4 in	7 ft 9 in	5,423	5
Fassi	F155A.0.26	11023	220 lbs @ 81 ft 4 in	89 ft	45 ft 4 in	7 ft 9 in	6,172	5
Fassi	F115A 24	11904	396 lbs @ 59 ft 2 in	66 ft 2 in	30 ft 6 in	7 ft 2 in	4,309	6
Fassi	F135A.0.25	12632	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4,783	6
Fassi	F175A.2.26	11794	242 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7,495	6
Fassi	F195A.2.26	12896	286 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7,495	6.5
Fassi	F155A.0.25	13911	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4,795	7
Fassi	F215A.2.26	13668	330 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7,716	7
Fassi	F175A.0.25	17636	220 lbs @ 80 ft 6 in	88 ft	37 ft 8 in	7 ft 10 in	6,547	8.5
Fassi	F245A.2.28	17636	473 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9,500	8.5
Fassi	F275A.2.28	17636	606 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9,500	8.5
Fassi	F195A.0.25	19102	330 lbs @ 80 ft 8 in	88 ft	43 ft 8 in	7 ft 10 in	6,889	9.5
Fassi	F245A.0.26	19620	551 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8,500	9.5
Fassi	F275A.0.26	29762	617 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8,500	9.5
Fassi	F215A.0.25	20657	385 lbs @ 80 ft 6 in	88 ft	43 ft 8 in	7 ft 10 in	6,889	10
Fassi	F295A.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F335A.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F295RA.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F335RA.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F385A.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17,500	13
Fassi	F385RA.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17,500	13
Fassi	F455A.2.28	29762	485 lbs @ 101 ft 10 in	106 ft	72 ft 11 in	8 ft 6 in	13,558	15
Fassi	F455RA.2.28	29762	485 lbs @ 101 ft 10 in	106 ft	72 ft 11 in	8 ft 6 in	13,558	15

## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Fassi	F515RA.2.28	35273	661 lbs @ 100 ft 5 in	106 ft	75 ft 9 in	8 ft 6 in	13,558	16.5
Fassi	F660RA.2.28	35273	485 lbs @ 116 ft 5 in	131 ft 3 in	75 ft 9 in	8 ft 6 in	15,000	17.5
Fassi	F800RA.2.28	48501	727 lbs @ 109 ft 10 in	124 ft	75 ft 9 in	8 ft 6 in	17,600	24
Fassi	F950RA.2.28	48501	551 lbs @ 121 ft 10 in	136 ft	80 ft	8 ft 6 in	19,000	24
Fassi	F1100RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 2 in	8 ft 6 in	23,000	27.5
Fassi	F1300RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 4 in	8 ft 6 in	33,500	27.5
Fassi	F1950RAL.2.28	58973	727 lbs @ 151 ft 5 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45,000	29
Fassi	F2150RAL.2.28	63272	728 lbs @ 152 ft 8 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45,000	32
Fassi	F1500RA.2.28	66138	727 lbs @ 120 ft 4 in	134 ft 2 in	72 ft 2 in	8 ft 6 in	35,000	33
Fassi	F1950RA.2.28	66138	727 lbs @ 120 ft 4 in	134 ft 2 in	78 ft 5 in	8 ft 6 in	40,000	44
IMT	2.5/18	1740 (790 kg)	715 @ 22 ft 8 in	28 ft 1 in (8.6 m)	23 ft	5 ft	850 (386 kg)	0.87
IMT	3.2/23	2195 (995 kg)	960 @ 23 ft 4 in	29 ft 3 in (8.9 m)	23 ft	5 ft 2 in	920 (418 kg)	1.1
IMT	610K-MC	5986 (2715 kg)	838 @ 35 ft 4 in	43 ft 11 in (13.4 m)	35 ft 4 in	6 ft 2 in	1389 (630 kg)	3
IMT	610K-MCS/RC	6526 (2960 kg)	948 @ 35 ft 4 in	43 ft 11 in (13.4 m)	35 ft 4 in (10.8 m)	6 ft 2 in	1389 (630 kg)	3.3
IMT	710K-RCS	6746 (3060 kg)	992 @ 35 ft 5 in	43 ft 11 in (13.4 m)	35 ft 5 in (10.8 m)	6 ft 2 in	1389 (630 kg)	3.4
IMT	810K-MC	7562 (3430 kg)	1135 @ 36 ft 1 in	42 ft 5 in (12.9 m)	36 ft 1 in (11 m)	6 ft 2 in	1466 (665 kg)	3.8
IMT	810K-MCS/RC	8245 (3740 kg)	1267 @ 36 ft 1 in	42 ft 5 in (12.9 m)	36 ft 1 in (11 m)	6 ft 2 in	1466 (665 kg)	4.1
IMT	9/65SL	8380 (3800 kg)	950 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7 ft	2360 (930 kg)	4.2
IMT	910K-RCS	8509 (3860 kg)	1322 @ 36 ft 1 in	42 ft 5 in (12.9 m)	36 ft 1 in (11 m)	6 ft 2 in	1389 (630 kg)	4.3
IMT	9/65DL	9040 (4100 kg)	905 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7 ft	2415 (1094 kg)	4.5
IMT	10/72SL	9722 (4410 kg)	1190 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7 ft	2380 (1080 kg)	4.6
IMT	10/72DL	10,384 (4710 kg)	1124 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7ft	2380 (1080 kg)	4.6
IMT	11/78SL	9170 (4160 kg)	1015 @ 48 ft 11 in	56 ft 9 in (17.3 m)	49 ft 3 in (15 m)	7 ft	2557 (1160 kg)	4.6
IMT	11/78DL	9280 (4210 kg)	1015 @ 48 ft 11 in	56 ft 9 in (17.3 m)	49 ft 3 in (15 m)	7 ft	2645 (1200 kg)	4.9
IMT	12/86SL	10,626 (4820 kg)	1301 @ 48 ft 10 in	56 ft 9 in (17.3 m)	49 ft 2 in (15 m)	7 ft 5 in	2590 (1175 kg)	5
IMT	12/86DL	10,670 (4840 kg)	1,279 @ 48 ft 10 in	56 ft 9 in (17.3 m)	49 ft 2 in (15 m)	7 ft	2665 (1210 kg)	5.1
IMT	13/88SL	9920 (4500 kg)	750 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft	2890 (1310 kg)	5.1
IMT	13/88DL	10,780 (4890 kg)	750 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft 5 in	3000 (1360 kg)	5.4
IMT	14/98SL	11,680 (5300 kg)	1035 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 4 in	2890 (1310 kg)	5.5
IMT	14/98DL	12,275 (5570 kg)	1015 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 4 in	3000 (1,360 kg)	5.9
IMT	15/105SL	12,125 (5500 kg)	1060 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft 5 in	3020 (1370 kg)	5.9
IMT	15/105DL	13,470 (6110 kg)	1060 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft 5 in	3130 (1420 kg)	6.4
IMT	17/117SL	13,445 (6100 kg)	1390 @ 56 ft 5 in	64 ft 7 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 5 in	3020 (1370 kg)	6.7
IMT	17/117DL	15,625 (7090 kg)	1390 @ 56 ft 5 in	64 ft 7 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 6 in	3130 (1420 kg)	6.9
IMT	18/124SL	13,800 (6260 kg)	615 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	3900 (1770 kg)	7.4
IMT	18/124DL	14,265 (6470 kg)	615 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 5 in	4055 (1840 kg)	7.4
IMT	20/138SL	16,200 (7350 kg)	950 @ 70 ft 10 in	79 ft 1 in (24.1 m)	70 ft 10 in (21.6 m)	7 ft 9 in	3900 (1770 kg)	7.5
IMT	20/138DL	16,265 (7380 kg)	950 @ 70 ft 6 in	79 ft 1 in (24.1 m)	70 ft 10 in (21.6 m)	7 ft 6 in	4055 (1840 kg)	7.7
IMT	22/153SL	17,065 (7740 kg)	880 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4180 (1895 kg)	7.9
IMT	22/153DL	17,550 (7960 kg)	880 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4365 (1980 kg)	8.5
IMT	26/180SL	18,940 (8590 kg)	1345 @ 70 ft 6 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4180 (1895 kg)	8.8
IMT	26/180DL	19,355 (8780 kg)	1345 @ 70 ft 6 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4365 (1980 kg)	9.5
IMT	32/222	15,058 (6830 kg)	1764 @ 69 ft 7 in	77 ft 10 in (23.7 m)	69 ft 7 in (21.2 m)	7 ft 10 in	5710 (2590 kg)	9.5
IMT	40/275	19,025 (8630 kg)	2225 @ 69 ft 11 in	79 ft (24.1 m)	69 ft 11 in (21.3 m)	7 ft 6 in	7165 (3250 kg)	9.7
IMT	50/345	22,840 (10,360 kg)	3085 @ 70 ft 3 in	78 ft 11 in (24.1 m)	70 ft 3 in (21.4 m)	7 ft 10 in	8180 (3710 kg)	11.4
IMT	60/427	27,845 (12,630 kg)	4210 @ 67 ft 3 in	76 ft 9 in (23.4 m)	67 ft 7 in (20.6 m)	7 ft 11 in	9735 (4415 kg)	13.9
IMT	80/565	35,410 (16,060 kg)	6285 @ 66 ft 7 in	76 ft 9 in (23.4 m)	66 ft 11 in (20.4 m)	8 ft 2 in	12,345 (5600 kg)	17.2
Palfinger	PK 5.001 SLD	7,300	640 @ 36 ft 5 in	n/s	36 ft 5 in	n/s	1530	3.31
Palfinger	PK 7.001 SLD	7,300	930 @ 36 ft 9 in	n/s	36 ft 9 in	n/s	1650	3.31
Palfinger	PK 5.001 SLD	7,300	640 @ 36 ft 5 in	n/s	36 ft 5 in	n/s	1530	3.65
Palfinger	PK 7.001 SLD	7,300	930 @ 36 ft 9 in	n/s	36 ft 9 in	n/s	1650	3.65
Palfinger	PK 11001 CM	12,400	1920 @ 33 ft 6 in	n/s	33 ft 6 in	n/s	2770	5.6
Palfinger	PK 8.501 SLD	12,570	1100 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2320	5.7
Palfinger	PK 11.001 SLD	12,570	1500 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2510	5.7
Palfinger	PK 12.501 SLD	12,570	1700 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2580	5.7
Palfinger	PK 9.501 SLD	12,600	1260 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2380	5.71
Palfinger	PK 8501 CM	12,600	1520 @ 32 ft 6 in	n/s	32 ft 6 in	n/s	2425	5.71
Palfinger	PK 13002	13,200	900 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	3890	5.98
Palfinger	PK 14002-EH	13,200	1000 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	3940	5.98

## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Palfinger	PK 18500	17,673	2072 @ 47 ft 11 in	n/s	47 ft 11 in	n/s	4670	6.09
Palfinger	PK 19502	13,500	1540 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.1
Palfinger	PK 22002-EH	13,500	1820 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.1
Palfinger	PK 15500	13,670	1430 @ 47 ft 7 in	n/s	47 ft 7 in	n/s	3570	6.2
Palfinger	PK 16002	13,440	1300 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4120	6.2
Palfinger	PK 18002-EH	13,440	1440 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4170	6.2
Palfinger	PK 11001 CM	12,400	1920 @ 33 ft 6 in	n/s	33 ft 6 in	n/s	2770	6.2
Palfinger	PK 8.501 SLD	12,570	1100 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2320	6.285
Palfinger	PK 11.001 SLD	12,570	1500 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2510	6.285
Palfinger	PK 12.501 SLD	12,570	1700 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2580	6.285
Palfinger	PK 9.501 SLD	12,600	1260 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2380	6.3
Palfinger	PK 8501 CM	12,600	1520 @ 32 ft 6 in	n/s	32 ft 6 in	n/s	2425	6.3
Palfinger	PK 13002	13,200	900 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	3890	6.6
Palfinger	PK 16002	13,440	1300 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4120	6.72
Palfinger	PK 18002-EH	13,440	1440 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4170	6.72
Palfinger	PK 19502	13,500	1540 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.75
Palfinger	PK 22002-EH	13,500	1820 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.75
Palfinger	PK 12000	14,970	1170 @ 47 ft 11 in	n/s	47 ft 11 in	n/s	3040	6.79
Palfinger	PK 14.501 SLD	13,670	1700 @ 39 ft 6 in	n/s	48 ft 7 in	n/s	3390	6.835
Palfinger	PK 13.501 SLD	13,700	1300 @ 48 ft 7 in	n/s	48 ft 7 in	n/s	3330	6.85
Palfinger	PK 17.001 SLD	13,700	1820 @ 48 ft 7 in	n/s	48 ft 7 in	n/s	3675	6.85
Palfinger	PK 19.001 SLD	13,700	2100 @ 48 ft 7 in	n/s	47 ft 11 in	n/s	4670	6.85
Palfinger	PK 32080	18,740	3950 @ 46 ft 11 in	n/s	46 ft 11 in	n/s	6900	8.5
Palfinger	PK 18500	17,673	2072 @ 47 ft 11 in	n/s	47 ft 11 in	n/s	4670	8.8365
Palfinger	PK 23502	19,600	1170 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	8.89
Palfinger	PK 26002-EH	19,600	1300 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	8.89
Palfinger	PK 30002	22,050	1560 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	9.09
Palfinger	PK 33002-EH	22,050	1900 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	9.09
Palfinger	PK 32080	18,740	3950 @ 46 ft 11 in	n/s	46 ft 11 in	n/s	6900	9.37
Palfinger	PK 23502	19,600	1170 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	9.8
Palfinger	PK 26002-EH	19,600	1300 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	9.8
Palfinger	PK 23500	22,046	2116 @ 56 ft 9 in	n/s	56 ft 9 in	n/s	5170	9.9
Palfinger	PK 34002-SH	22,100	2050 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6460	10.02
Palfinger	PK 37002	28,440	2000 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	11
Palfinger	PK 23500	22,046	2116 @ 56 ft 9 in	n/s	56 ft 9 in	n/s	5170	11.023
Palfinger	PK 30002	22,050	1560 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	11.025
Palfinger	PK 33002-EH	22,050	1900 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	11.025
Palfinger	PK 34002-SH	22,100	2050 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6460	11.05
Palfinger	PK 40002-EH	31,500	2450 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	14.2
Palfinger	PK 37002	28,440	2000 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	14.22
Palfinger	PK 40002-EH	31,500	2450 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	15.75
Palfinger	PK 50002-EH	37,030	3250 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	9140	16.79
Palfinger	PK 46002	34,170	2700 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	17.085
Palfinger	PK 50002-EH	37,030	3250 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	9140	18.515
Palfinger	PK 63002-EH	48,500	4300 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	11111	22
Palfinger	PK 76002-EH	50,710	5650 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	13029	23
Palfinger	PK 63002-EH	48,500	4300 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	11111	24.25
Palfinger	PK 65002-SH	48,500	4600 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	11111	24.25
Palfinger	PK 100002	55,100	6170 @ 72 ft 2 in	n/s	72 ft 2 in	n/s	19400	25
Palfinger	PK 76002-EH	50,710	5650 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	13029	25.355
Palfinger	PK 100002 HPLS	55,100	6170 @ 72 ft 2 in	n/s	72 ft 2 in	n/s	19400	27.55
Palfinger	PK 78002-SH	55,120	6000 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	13025	27.56
Palfinger	PK 88002-EH	66,200	6500 @ 73 ft 10 in	n/s	73 ft 10 in	n/s	14947	30
Palfinger	PK 165.002 TEC	70,600	2450 @ 118 ft 0 in	n/s	118 ft 4 in	n/s	70600	32
Palfinger	PK 110002-SH	66,140	6900 @ 72 ft 2 in	n/s	72 ft 2 in	n/s	19466	33.07
Palfinger	PK 88002-EH	66,200	6500 @ 73 ft 10 in	n/s	73 ft 10 in	n/s	14947	33.1
Palfinger	PK 92002-SH	66,200	5800 @ 73 ft 10 in	n/s	73 ft 10 in	n/s	14947	33.1
Palfinger	PK 165.002 TEC	70,600	2450 @ 118 ft 0 in	n/s	118 ft 4 in	n/s	70600	35.3
Palfinger	PK 200002L-SH	88,200	8700 @ 84 ft 0 in	n/s	83 ft 12 in	n/s	n/s	44.1



## ARTICULATING CRANES BY MANUFACTURER

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
PM	2.8	2,185	695 @ 23 ft 7 in	33 ft 2 in	23 ft 7 in	6 ft 1 in	850	2.5
PM	3.6	2,185	730 @ 24 ft 5 in	33 ft 8 in	24 ft 5 in	6 ft 2 in	915	2.9
PM	4	2,185	620 @ 29 ft	38 ft 3 in	29 ft	6 ft 8 in	1155	3.9
PM	0.708333333	2,690	695 @ 29 ft	38 ft 3 in	29 ft	6 ft 8 in	1155	3.9
PM	6.5 P	3,640	860 @ 31 ft	41 ft 4 in	31 ft	6 ft 8 in	1605	4.7
PM	8.5 P	4,410	995 @ 34 ft 5 in	44 ft 3 in	34 ft 5 in	6 ft 8 in	1605	5.5
PM	9.5 P	5,290	550 @ 40 ft 8 in	46 ft 7 in	40 ft 8 in	6 ft 6 in	2325	8.9
PM	11.5 P	6,350	460 @ 54 ft 6 in	65 ft 11 in	54 ft 6 in	6 ft 9 in	2790	11.4
PM	13 P	6,370	620 @ 49 ft 8 in	60 ft 4 in	49 ft 8 in	7 ft	3040	12
PM	15.5	7,160	1,480 @ 46 ft 3 in	58 ft 1 in	46 ft 3 in	7 ft 3 in	3905	14.7
PM	16.5 S	8,070	905 @ 62 ft 4 in	75 ft 4 in	62 ft 4 in	7 ft 4 in	4,270	15
PM	18 SP	5,755	600 @ 71 ft 2 in	84 ft 10 in	71 ft 2 in	7 ft 3 in	4,255	16.2
PM	21.5 S	11,510	1,195 @ 62 ft 4 in	75 ft 4 in	62 ft 4 in	7 ft 9 in	4,700	20.2
PM	23.5 SP	11,465	530 @ 78 ft 9 in	96 ft 11 in	78 ft 9 in	7 ft 4 in	4,685	21.3
PM	24 PX	11,930	3,230 @ 39 ft 6 in	53 ft 4 in	39 ft 6 in	7 ft 5 in	4,315	21.9
PM	26.5 S	12,835	1,345 @ 70 ft 8 in	83 ft 6 in	70 ft 8 in	7 ft 9 in	5,735	24
PM	27.5 S PX	12,760	1,340 @ 71 ft	83 ft 2 in	71 ft	7 ft 9 in	5,490	24.4
PM	28.5 S	13,514	397 @ 87 ft 9 in	101 ft 3 in	87 ft 9 in	7 ft 9 in	5,732	25.1
PM	30.5 S	13,730	445 @ 87 ft 11 in	101 ft 3 in	87 ft 11 in	7 ft 9 in	5,845	25.7
PM	32.5 S PX	15,700	3,500 @ 48 ft 9 in	61 ft 6 in	48 ft 9 in	7 ft 9 in	6,460	30.4
PM	36.5 S	17,480	1870 @ 70 ft 8 in	83 ft 6 in	70 ft 8 in	7 ft 9 in	6,835	32.7
PM	38.5 SP	17,795	995 @ 88 ft 1 in	101 ft 3 in	88 ft 1 in	7 ft 9 in	6,812	33.2
PM	40.5 SP	18,340	2,230 @ 88 ft 1 in	101 ft 3 in	70 ft 8 in	7 ft 9 in	6,935	34.4
PM	45 SP	21,716	1,433 @ 80 ft 2 in	91 ft 8 in	80 ft 2 in	8 ft 1 in	9,605	41.2
PM	50 P	24,890	1,010 @ 79 ft 9 in	93 ft 2 in	79 ft 9 in	7 ft 11 in	9,460	46
PM	53 SP	23,635	1,215 @ 94 ft 6 in	109 ft 11 in	94 ft 6 in	8 ft 3 in	10,675	47.7
PM	65 SP	30,530	1,330 @ 99 ft 4 in	113 ft 8 in	99 ft 4 in	8 ft 1 in	13,440	59.4
PM	85 SP	35,270	1,430 @ 101 ft 4 in	115 ft 10 in	101 ft 4 in	8 ft 2 in	16,050	71.2
PM	100 SP	42,220	1,630 @ 109 ft 9 in	122 ft 6 in	109 ft 9 in	8 ft 2 in	16,790	84
PM	150 SP	54,010	1,830 @ 115 ft 2 in	127 ft 6 in	115 ft 2 in	8 ft 8 in	24,585	107.6
PM	210 SP	48,150	1,390 @ 148 ft 11 in	160 ft 11 in	148 ft 11 in	9 ft 4 in	20,085	150.3

## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
IMT	2.5/18	1740 (790 kg)	715 @ 22 ft 8 in	28 ft 1 in (8.6 m)	23 ft	5 ft	850 (386 kg)	0.87
Fassi	M10A 12	2194	661 lbs @ 11 ft 7 in	15 ft 7 in	5 ft 2 in	3 ft 11 in	396	1
Fassi	F22A.0.22	2193	407 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	881	1
Fassi	F28A.0.23	2193	440 lbs @ 26 ft 4 in	31 ft 4 in	7 ft 10 in	4 ft 11 in	1,025	1
Fassi	F38A.0.23	2193	507 lbs @ 28 ft 8 in	33 ft 10 in	13 ft 1 in	5 ft 2 in	1,267	1
IMT	3.2/23	2195 (995 kg)	960 @ 23 ft 4 in	29 ft 3 in (8.9 m)	23 ft	5 ft 2 in	920 (418 kg)	1.1
Effer	42/4S	1.8 t	0.33	37 ft 8 in	29 ft 8 in	67 in	1,280	1.984
Fassi	M30A 13	4404	794 lbs @ 22 ft 4 in	27 ft 7 in	10 ft 5 in	5 ft 3 in	573	2
Fassi	F50A.0.24	5004	462 lbs @ 35 ft 5 in	41 ft 5 in	17 ft 6 in	5 ft 9 in	1,653	2.5
PM	2.8	2,185	695 @ 23 ft 7 in	33 ft 2 in	23 ft 7 in	6 ft 1 in	850	2.5
Effer	65/4S	2.5 t	0.5	42 ft 2 in	34 ft 1 in	78 in	2,120	2.755
PM	3.6	2,185	730 @ 24 ft 5 in	33 ft 8 in	24 ft 5 in	6 ft 2 in	915	2.9
Fassi	F65B.1.24	6832	640 lbs @ 41 ft 11 in	46 ft 2 in	24 ft 6 in	6 ft 3 in	2050	3
IMT	610K-MC	5986 (2715 kg)	838 @ 35 ft 4 in	43 ft 11 in (13.4 m)	35 ft 4 in	6 ft 2 in	1389 (630 kg)	3
Effer	80/4S	2.8 t	0.6	43 ft 4 in	35 ft 4 in	82 in	2,225	3.086
IMT	610K-MCS/RC	6526 (2960 kg)	948 @ 35 ft 4 in	43 ft 11 in (13.4 m)	35 ft 4 in (10.8 m)	6 ft 2 in	1389 (630 kg)	3.3
Palfinger	PK 5.001 SLD	7,300	640 @ 36 ft 5 in	n/s	36 ft 5 in	n/s	1530	3.31
Palfinger	PK 7.001 SLD	7,300	930 @ 36 ft 9 in	n/s	36 ft 9 in	n/s	1650	3.31
IMT	710K-RCS	6746 (3060 kg)	992 @ 35 ft 5 in	43 ft 11 in (13.4 m)	35 ft 5 in (10.8 m)	6 ft 2 in	1389 (630 kg)	3.4
Palfinger	PK 5.001 SLD	7,300	640 @ 36 ft 5 in	n/s	36 ft 5 in	n/s	1530	3.65
Palfinger	PK 7.001 SLD	7,300	930 @ 36 ft 9 in	n/s	36 ft 9 in	n/s	1650	3.65
IMT	810K-MC	7562 (3430 kg)	1135 @ 36 ft 1 in	42 ft 5 in (12.9 m)	36 ft 1 in (11 m)	6 ft 2 in	1466 (665 kg)	3.8

## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
PM	4	2,185	620 @ 29 ft	38 ft 3 in	29 ft	6 ft 8 in	1155	3.9
PM	0.7083333333	2,690	695 @ 29 ft	38 ft 3 in	29 ft	6 ft 8 in	1155	3.9
Fassi	F85B.0.24	8377	903 lbs @ 43 ft 31 in	50 ft 4 in	30 ft 7 in	6 ft 5 in	2,579	4
Effer	100/4S	3.7 t	0.75	43 ft 7 in	34 ft 7 in	85 in	2,630	4.078
IMT	810K-MCS/RC	8245 (3740 kg)	1267 @ 36 ft 1 in	42 ft 5 in (12.9 m)	36 ft 1 in (11 m)	6 ft 2 in	1466 (665 kg)	4.1
IMT	9/65SL	8380 (3800 kg)	950 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7 ft	2360 (930 kg)	4.2
IMT	910K-RCS	8509 (3860 kg)	1322 @ 36 ft 1 in	42 ft 5 in (12.9 m)	36 ft 1 in (11 m)	6 ft 2 in	1389 (630 kg)	4.3
IMT	9/65DL	9040 (4100 kg)	905 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7 ft	2415 (1094 kg)	4.5
IMT	10/72SL	9722 (4410 kg)	1190 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7 ft	2380 (1080 kg)	4.6
IMT	10/72DL	10,384 (4710 kg)	1124 @ 45 ft 7 in	53 ft 4 in (16.3 m)	45 ft 11 in (14 m)	7ft	2380 (1080 kg)	4.6
IMT	11/78SL	9170 (4160 kg)	1015 @ 48 ft 11 in	56 ft 9 in (17.3 m)	49 ft 3 in (15 m)	7 ft	2557 (1160 kg)	4.6
PM	6.5 P	3,640	860 @ 31 ft	41 ft 4 in	31 ft	6 ft 8 in	1605	4.7
IMT	11/78DL	9280 (4210 kg)	1015 @ 48 ft 11 in	56 ft 9 in (17.3 m)	49 ft 3 in (15 m)	7 ft	2645 (1200 kg)	4.9
Effer	130/14S	4.5 t	0.5	62 ft 1 in	55 ft 1 in	89 in	4,476	4.96
Fassi	F95B.0.24	9744	220 lbs @ 59 ft 6 in	66 ft 8 in	30 ft 6 in	7 ft 2 in	3,593	5
Fassi	F135A.2.26	10251	110 lbs @ 81 ft 4 in	89 ft	40 ft 4 in	7 ft 9 in	5,423	5
Fassi	F155A.0.26	11023	220 lbs @ 81 ft 4 in	89 ft	45 ft 4 in	7 ft 9 in	6,172	5
IMT	12/86SL	10,626 (4820 kg)	1301 @ 48 ft 10 in	56 ft 9 in (17.3 m)	49 ft 2 in (15 m)	7 ft 5 in	2590 (1175 kg)	5
IMT	12/86DL	10,670 (4840 kg)	1,279 @ 48 ft 10 in	56 ft 9 in (17.3 m)	49 ft 2 in (15 m)	7 ft	2665 (1210 kg)	5.1
IMT	13/88SL	9920 (4500 kg)	750 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft	2890 (1310 kg)	5.1
IMT	13/88DL	10,780 (4890 kg)	750 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft 5 in	3000 (1360 kg)	5.4
IMT	14/98SL	11,680 (5300 kg)	1035 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 4 in	2890 (1310 kg)	5.5
PM	8.5 P	4,410	995 @ 34 ft 5 in	44 ft 3 in	34 ft 5 in	6 ft 8 in	1605	5.5
Palfinger	PK 11001 CM	12,400	1920 @ 33 ft 6 in	n/s	33 ft 6 in	n/s	2770	5.6
Palfinger	PK 8.501 SLD	12,570	1100 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2320	5.7
Palfinger	PK 11.001 SLD	12,570	1500 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2510	5.7
Palfinger	PK 12.501 SLD	12,570	1700 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2580	5.7
Palfinger	PK 9.501 SLD	12,600	1260 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2380	5.71
Palfinger	PK 8501 CM	12,600	1520 @ 32 ft 6 in	n/s	32 ft 6 in	n/s	2425	5.71
IMT	14/98DL	12,275 (5570 kg)	1015 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 4 in	3000 (1,360 kg)	5.9
IMT	15/105SL	12,125 (5500 kg)	1060 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft 5 in	3020 (1370 kg)	5.9
Palfinger	PK 13002	13,200	900 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	3890	5.98
Palfinger	PK 14002-EH	13,200	1000 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	3940	5.98
Fassi	F115A.24	11904	396 lbs @ 59 ft 2 in	66 ft 2 in	30 ft 6 in	7 ft 2 in	4,309	6
Fassi	F135A.0.25	12632	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4,783	6
Fassi	F175A.2.26	11794	242 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7,495	6
Effer	155/16S	5.5 t	0.7	72 ft 11 in	62 ft 9 in	90 in	4,871	6.06
Effer	150/16S	5.5 t	0.7	72 ft 11 in	62 ft 9 in	90 in	4,871	6.06
Palfinger	PK 18500	17,673	2072 @ 47 ft 11 in	n/s	47 ft 11 in	n/s	4670	6.09
Palfinger	PK 19502	13,500	1540 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.1
Palfinger	PK 22002-EH	13,500	1820 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.1
Palfinger	PK 15500	13,670	1430 @ 47 ft 7 in	n/s	47 ft 7 in	n/s	3570	6.2
Palfinger	PK 16002	13,440	1300 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4120	6.2
Palfinger	PK 18002-EH	13,440	1440 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4170	6.2
Palfinger	PK 11001 CM	12,400	1920 @ 33 ft 6 in	n/s	33 ft 6 in	n/s	2770	6.2
Palfinger	PK 8.501 SLD	12,570	1100 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2320	6.285
Palfinger	PK 11.001 SLD	12,570	1500 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2510	6.285
Palfinger	PK 12.501 SLD	12,570	1700 @ 39 ft 4 in	n/s	39 ft 6 in	n/s	2580	6.285
Palfinger	PK 9.501 SLD	12,600	1260 @ 38 ft 7 in	n/s	38 ft 9 in	n/s	2380	6.3
Palfinger	PK 8501 CM	12,600	1520 @ 32 ft 6 in	n/s	32 ft 6 in	n/s	2425	6.3
IMT	15/105DL	13,470 (6110 kg)	1060 @ 56 ft 5 in	64 ft 8 in (19.7 m)	56 ft 5 in (17.2 m)	7 ft 5 in	3130 (1420 kg)	6.4
Fassi	F195A.2.26	12896	286 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7,495	6.5
Palfinger	PK 13002	13,200	900 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	3890	6.6
IMT	17/117SL	13,445 (6100 kg)	1390 @ 56 ft 5 in	64 ft 7 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 5 in	3020 (1370 kg)	6.7
Palfinger	PK 16002	13,440	1300 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4120	6.72
Palfinger	PK 18002-EH	13,440	1440 @ 55 ft 9 in	n/s	55 ft 9 in	n/s	4170	6.72
Palfinger	PK 19502	13,500	1540 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.75
Palfinger	PK 22002-EH	13,500	1820 @ 56 ft 1 in	n/s	56 ft 1 in	n/s	5270	6.75
Palfinger	PK 12000	14,970	1170 @ 47 ft 11 in	n/s	47 ft 11 in	n/s	3040	6.79

## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Palfinger	PK 14.501 SLD	13,670	1700 @ 39 ft 6 in	n/s	48 ft 7 in	n/s	3390	6.835
Palfinger	PK 13.501 SLD	13,700	1300 @ 48 ft 7 in	n/s	48 ft 7 in	n/s	3330	6.85
Palfinger	PK 17.001 SLD	13,700	1820 @ 48 ft 7 in	n/s	48 ft 7 in	n/s	3675	6.85
Palfinger	PK 19.001 SLD	13,700	2100 @ 48 ft 7 in	n/s	47 ft 11 in	n/s	4670	6.85
IMT	17/117DL	15,625 (7090 kg)	1390 @ 56 ft 5 in	64 ft 7 in (19.7 m)	56 ft 8 in (17.3 m)	7 ft 6 in	3130 (1420 kg)	6.9
Fassi	F155A.0.25	13911	573 lbs @ 68 ft 4 in	76 ft 10 in	32 ft 3 in	7 ft 2 in	4,795	7
Fassi	F215A.2.26	13668	330 lbs @ 81 ft 10 in	89 ft 6 in	50 ft 10 in	8 ft 9 in	7,716	7
IMT	18/124SL	13,800 (6260 kg)	615 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	3900 (1770 kg)	7.4
IMT	18/124DL	14,265 (6470 kg)	615 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 5 in	4055 (1840 kg)	7.4
IMT	20/138SL	16,200 (7350 kg)	950 @ 70 ft 10 in	79 ft 1 in (24.1 m)	70 ft 10 in (21.6 m)	7 ft 9 in	3900 (1770 kg)	7.5
IMT	20/138DL	16,265 (7380 kg)	950 @ 70 ft 6 in	79 ft 1 in (24.1 m)	70 ft 10 in (21.6 m)	7 ft 6 in	4055 (1840 kg)	7.7
Effer	210	7 t	0.7	63 ft 10 in	56 ft 9 in	100 in	6,564	7.72
Effer	215/225	7 t	0.7	63 ft 10 in	56 ft 9 in	100 in	6,564	7.72
IMT	22/153SL	17,065 (7740 kg)	880 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4180 (1895 kg)	7.9
Fassi	F175A.0.25	17636	220 lbs @ 80 ft 6 in	88 ft	37 ft 8 in	7 ft 10 in	6,547	8.5
Fassi	F245A.2.28	17636	473 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9,500	8.5
Fassi	F275A.2.28	17636	606 lbs @ 87 ft 11 in	101 ft	50 ft 8 in	8 ft 6 in	9,500	8.5
IMT	22/153DL	17,550 (7960 kg)	880 @ 70 ft 10 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4365 (1980 kg)	8.5
Palfinger	PK 32080	18,740	3950 @ 46 ft 11 in	n/s	46 ft 11 in	n/s	6900	8.5
IMT	26/180SL	18,940 (8590 kg)	1345 @ 70 ft 6 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4180 (1895 kg)	8.8
Palfinger	PK 18500	17,673	2072 @ 47 ft 11 in	n/s	47 ft 11 in	n/s	4670	8.8365
Palfinger	PK 23502	19,600	1170 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	8.89
Palfinger	PK 26002-EH	19,600	1300 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	8.89
PM	9.5 P	5,290	550 @ 40 ft 8 in	46 ft 7 in	40 ft 8 in	6 ft 6 in	2325	8.9
Palfinger	PK 30002	22,050	1560 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	9.09
Palfinger	PK 33002-EH	22,050	1900 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	9.09
Effer	250	8.5 t	0.9	63 ft 10 in	56 ft 6 in	98 in	6,865	9.37
Palfinger	PK 32080	18,740	3950 @ 46 ft 11 in	n/s	46 ft 11 in	n/s	6900	9.37
Fassi	F195A.0.25	19102	330 lbs @ 80 ft 8 in	88 ft	43 ft 8 in	7 ft 10 in	6,889	9.5
Fassi	F245A.0.26	19620	551 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8,500	9.5
Fassi	F275A.0.26	29762	617 lbs @ 79 ft 8 in	95 ft	49 ft 6 in	8 ft 6 in	8,500	9.5
IMT	26/180DL	19,355 (8780 kg)	1345 @ 70 ft 6 in	79 ft 1 in (24.1 m)	71 ft 2 in (21.7 m)	7 ft 6 in	4365 (1980 kg)	9.5
IMT	32/222	15,058 (6830 kg)	1764 @ 69 ft 7 in	77 ft 10 in (23.7 m)	69 ft 7 in (21.2 m)	7 ft 10 in	5710 (2590 kg)	9.5
IMT	40/275	19,025 (8630 kg)	2225 @ 69 ft 11 in	79 ft (24.1 m)	69 ft 11 in (21.3 m)	7 ft 6 in	7165 (3250 kg)	9.7
Palfinger	PK 23502	19,600	1170 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	9.8
Palfinger	PK 26002-EH	19,600	1300 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	5694	9.8
Palfinger	PK 23500	22,046	2116 @ 56 ft 9 in	n/s	56 ft 9 in	n/s	5170	9.9
Fassi	F215A.0.25	20657	385 lbs @ 80 ft 6 in	88 ft	43 ft 8 in	7 ft 10 in	6,889	10
Palfinger	PK 34002-SH	22,100	2050 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6460	10.02
Fassi	F295A.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F335A.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F295RA.2.28	19841	440 lbs @ 95 ft 1 in	110 ft	63 ft 3 in	8 ft 6 in	12,500	10.5
Fassi	F335RA.2.28	20943	529 lbs @ 94 ft 3 in	109 ft 3 in	63 ft 3 in	8 ft 6 in	12,500	10.5
Palfinger	PK 37002	28,440	2000 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	11
Effer	275/305	10 t	0.8	90 ft 11 in	83 ft 10 in	100 in	7,935	11.02
Effer	265/315	10 t	0.8	90 ft 11 in	83 ft 10 in	100 in	7,935	11.02
Palfinger	PK 23500	22,046	2116 @ 56 ft 9 in	n/s	56 ft 9 in	n/s	5170	11.023
Palfinger	PK 30002	22,050	1560 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	11.025
Palfinger	PK 33002-EH	22,050	1900 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6340	11.025
Palfinger	PK 34002-SH	22,100	2050 @ 69 ft 11 in	n/s	69 ft 11 in	n/s	6460	11.05
IMT	50/345	22,840 (10,360 kg)	3085 @ 70 ft 3 in	78 ft 11 in (24.1 m)	70 ft 3 in (21.4 m)	7 ft 10 in	8180 (3710 kg)	11.4
PM	11.5 P	6,350	460 @ 54 ft 6 in	65 ft 11 in	54 ft 6 in	6 ft 9 in	2790	11.4
PM	13 P	6,370	620 @ 49 ft 8 in	60 ft 4 in	49 ft 8 in	7 ft	3040	12
Fassi	F385A.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17,500	13
Fassi	F385RA.2.28	26455	727 lbs @ 94 ft 5 in	107 ft 5 in	72 ft 9 in	8 ft 6 in	17,500	13
IMT	60/427	27,845 (12,630 kg)	4210 @ 67 ft 3 in	76 ft 9 in (23.4 m)	67 ft 7 in (20.6 m)	7 ft 11 in	9735 (4415 kg)	13.9
Palfinger	PK 40002-EH	31,500	2450 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	14.2
Palfinger	PK 37002	28,440	2000 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	14.22
PM	15.5	7,160	1,480 @ 46 ft 3 in	58 ft 1 in	46 ft 3 in	7 ft 3 in	3905	14.7



## ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Fassi	F455A.2.28	29762	485 lbs @ 101 ft 10 in	106 ft	72 ft 11 in	8 ft 6 in	13,558	15
Fassi	F455RA.2.28	29762	485 lbs @ 101 ft 10 in	106 ft	72 ft 11 in	8 ft 6 in	13,558	15
PM	16.5 S	8,070	905 @ 62 ft 4 in	75 ft 4 in	62 ft 4 in	7 ft 4 in	4,270	15
Palfinger	PK 40002-EH	31,500	2450 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	15.75
PM	18 SP	5,755	600 @ 71 ft 2 in	84 ft 10 in	71 ft 2 in	7 ft 3 in	4,255	16.2
Fassi	F515RA.2.28	35273	661 lbs @ 100 ft 5 in	106 ft	75 ft 9 in	8 ft 6 in	13,558	16.5
Effer	340/370	15 t	1	93 ft 7 in	86 ft 6 in	106 in	9,694	16.53
Effer	350/395	15 t	1	93 ft 7 in	86 ft 6 in	106 in	9,694	16.53
Effer	440/470	15 t	1.4	78 ft 2 in	70 ft 9 in	101 in	10,126	16.53
Effer	455/505	15 t	1.4	78 ft 2 in	70 ft 9 in	101 in	10,126	16.53
Palfinger	PK 50002-EH	37,030	3250 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	9140	16.79
Palfinger	PK 46002	34,170	2700 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	8490	17.085
IMT	80/565	35,410 (16,060 kg)	6285 @ 66 ft 7 in	76 ft 9 in (23.4 m)	66 ft 11 in (20.4 m)	8 ft 2 in	12,345 (5600 kg)	17.2
Fassi	F660RA.2.28	35273	485 lbs @ 116 ft 5 in	131 ft 3 in	75 ft 9 in	8 ft 6 in	15,000	17.5
Palfinger	PK 50002-EH	37,030	3250 @ 68 ft 11 in	n/s	68 ft 11 in	n/s	9140	18.515
PM	21.5 S	11,510	1,195 @ 62 ft 4 in	75 ft 4 in	62 ft 4 in	7 ft 9 in	4,700	20.2
Effer	635/655	19.3 t	1.7	104 ft 8 in	96 ft 6 in	104 in	14,640	21.27
Effer	655/685	19.3 t	1.7	104 ft 8 in	96 ft 6 in	104 in	14,640	21.27
PM	23.5 SP	11,465	530 @ 78 ft 9 in	96 ft 11 in	78 ft 9 in	7 ft 4 in	4,685	21.3
PM	24 PX	11,930	3,230 @ 39 ft 6 in	53 ft 4 in	39 ft 6 in	7 ft 5 in	4,315	21.9
Palfinger	PK 63002-EH	48,500	4300 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	11111	22
Palfinger	PK 76002-EH	50,710	5650 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	13029	23
Fassi	F800RA.2.28	48501	727 lbs @ 109 ft 10 in	124 ft	75 ft 9 in	8 ft 6 in	17,600	24
Fassi	F950RA.2.28	48501	551 lbs @ 121 ft 10 in	136 ft	80 ft	8 ft 6 in	19,000	24
PM	26.5 S	12,835	1,345 @ 70 ft 8 in	83 ft 6 in	70 ft 8 in	7 ft 9 in	5,735	24
Palfinger	PK 63002-EH	48,500	4300 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	11111	24.25
Palfinger	PK 65002-SH	48,500	4600 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	11111	24.25
PM	27.5 S PX	12,760	1,340 @ 71 ft	83 ft 2 in	71 ft	7 ft 9 in	5,490	24.4
Palfinger	PK 100002	55,100	6170 @ 72 ft 2 in	n/s	72 ft 2 in	n/s	19400	25
PM	28.5 S	13,514	397 @ 87 ft 9 in	101 ft 3 in	87 ft 9 in	7 ft 9 in	5,732	25.1
Palfinger	PK 76002-EH	50,710	5650 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	13029	25.355
PM	30.5 S	13,730	445 @ 87 ft 11 in	101 ft 3 in	87 ft 11 in	7 ft 9 in	5,845	25.7
Effer	1355	24 t	3.6	111 ft 7 in	104 ft 10 in	105 in	22,125	26.46
Fassi	F1100RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 2 in	8 ft 6 in	23,000	27.5
Fassi	F1300RA.2.28	55115	727 lbs @ 121 ft 4 in	135 ft 2 in	79 ft 4 in	8 ft 6 in	33,500	27.5
Palfinger	PK 100002 HPLS	55,100	6170 @ 72 ft 2 in	n/s	72 ft 2 in	n/s	19400	27.55
Palfinger	PK 78002-SH	55,120	6000 @ 66 ft 11 in	n/s	66 ft 11 in	n/s	13025	27.56
Effer	750/850	26 t	2.2	82 ft 6 in	75 ft 9 in	98 in	16,520	28.66
Effer	955	27 t	3.1	80 ft	110 ft	106 in	17,510	28.66
Fassi	F1950RAL.2.28	58973	727 lbs @ 151 ft 5 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45,000	29
Palfinger	PK 88002-EH	66,200	6500 @ 73 ft 10 in	n/s	73 ft 10 in	n/s	14947	30
PM	32.5 S PX	15,700	3,500 @ 48 ft 9 in	61 ft 6 in	48 ft 9 in	7 ft 9 in	6,460	30.4
Effer	1405	28 t	3.8	113 ft 5 in	106 ft 4 in	113 in	n/s	30.86
Fassi	F2150RAL.2.28	63272	728 lbs @ 152 ft 8 in	163 ft 2 in	80 ft 5 in	8 ft 6 in	45,000	32
Palfinger	PK 165.002 TEC	70,600	2450 @ 118 ft 0 in	n/s	118 ft 4 in	n/s	70600	32
PM	36.5 S	17,480	1870 @ 70 ft 8 in	83 ft 6 in	70 ft 8 in	7 ft 9 in	6,835	32.7
Fassi	F1500RA.2.28	66138	727 lbs @ 120 ft 4 in	134 ft 2 in	72 ft 2 in	8 ft 6 in	35,000	33
Palfinger	PK 110002-SH	66,140	6900 @ 72 ft 2 in	n/s	72 ft 2 in	n/s	19466	33.07
Palfinger	PK 88002-EH	66,200	6500 @ 73 ft 10 in	n/s	73 ft 10 in	n/s	14947	33.1
Palfinger	PK 92002-SH	66,200	5800 @ 73 ft 10 in	n/s	73 ft 10 in	n/s	14947	33.1
PM	38.5 SP	17,795	995 @ 88 ft 1 in	101 ft 3 in	88 ft 1 in	7 ft 9 in	6,812	33.2
PM	40.5 SP	18,340	2,230 @ 88 ft 1 in	101 ft 3 in	70 ft 8 in	7 ft 9 in	6,935	34.4
Effer	1750	32 t	5.9	111 ft 10 in	104 ft 9 in	114 in	30,420	35.27
Palfinger	PK 165.002 TEC	70,600	2450 @ 118 ft 0 in	n/s	118 ft 4 in	n/s	70600	35.3
Effer	2100	37 t	17.2	42 ft 5 in	35 ft 7 in	89 in	35,375	40.79
PM	45 SP	21,716	1,433 @ 80 ft 2 in	91 ft 8 in	80 ft 2 in	8 ft 1 in	9,605	41.2
Effer	2200	37.9 t	4.9	162 ft 1 in	141 ft 10 in	93 in	41,625	41.78
Fassi	F1950RA.2.28	66138	727 lbs @ 120 ft 4 in	134 ft 2 in	78 ft 5 in	8 ft 6 in	40,000	44
Palfinger	PK 200002L-SH	88,200	8700 @ 84 ft 0 in	n/s	83 ft 12 in	n/s	n/s	44.1

ARTICULATING CRANES BY CAPACITY

Manufacturer	Model	Maximum Lifting Capacity (pounds)	Load at Maximum Radius (feet/inches)	Maximum Hook Height (feet/inches)	Powered Boom Length (feet/inches)	Folded Height (feet/inches)	Installed Weight (pounds)	Capacity US tons
Effer	2750	40.7 t	15.3	58 ft 9 in	51 ft 10 in	100 in	42,018	44.86
PM	50 P	24,890	1,010 @ 79 ft 9 in	93 ft 2 in	79 ft 9 in	7 ft 11 in	9,460	46
PM	53 SP	23,635	1,215 @ 94 ft 6 in	109 ft 11 in	94 ft 6 in	8 ft 3 in	10,675	47.7
Effer	3000 VR	50 t	18	57 ft 6 in	50 ft 10 in	100 in	48,617	55.12
PM	65 SP	30,530	1,330 @ 99 ft 4 in	113 ft 8 in	99 ft 4 in	8 ft 1 in	13,440	59.4
PM	85 SP	35,270	1,430 @ 101 ft 4 in	115 ft 10 in	101 ft 4 in	8 ft 2 in	16,050	71.2
PM	100 SP	42,220	1,630 @ 109 ft 9 in	122 ft 6 in	109 ft 9 in	8 ft 2 in	16,790	84
PM	150 SP	54,010	1,830 @ 115 ft 2 in	127 ft 6 in	115 ft 2 in	8 ft 8 in	24,585	107.6
PM	210 SP	48,150	1,390 @ 148 ft 11 in	160 ft 11 in	148 ft 11 in	9 ft 4 in	20,085	150.3

INDUSTRIAL CRANES BY MANUFACTURER

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Bailey Cranes	Junior	700 lbs @ 11 ft	19 ft	11 ft	1.75	4,300	34.5 in	Battery	75	0.88	0.97
Bailey Cranes	Brandon 6E	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5,500	34.5 in	Battery	75	0.88	0.97
Bailey Cranes	OMNI	500 lbs @ 14 ft	22 ft	14 ft	1.75	5,800	4 ft 10 in	Battery	75	1.13	1.25
Bailey Cranes	Brandon 6	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5,500	34.5 in	Battery	75	1.36	1.50
Bailey Cranes	Brandon 10	1,000 lb @ 20 ft	29 ft	20 ft	5	10,500	5 ft	Battery	75	4.50	5.00
Bailey Cranes	BC 18	1,950 lbs @ 30 ft	46 ft	34 ft	5	20,000	6 ft 6 in	Battery/Hybrid	75	8.16	9.00
Broderson	IC-20	1,200 lbs @ 15 ft	27 ft 9 in	6 ft /15 ft	5.5 mph	6,380	4 ft	D/Dual Fuel	75	2.27	2.5
Broderson	IC-35	1,850 lbs @ 19 ft	33 ft	7 ft 2 in - 19 ft 2 in	10 mph	7,860	5 ft	D/Dual Fuel	75	3.6	4
Broderson	IC-40	1,850 lbs @ 19 ft	33 ft	7 ft 2 in - 19 ft 2 in	10 mph	8,920	5 ft 4 in	D/Dual Fuel	75	4.08	4.5
Broderson	IC-80-1	3,800 lbs @ 20 ft	37 ft 5 in	8 ft 2 in - 20 ft 2 in	22 mph	16,200	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-80-2	3,100 lbs @ 24 ft	41 ft	9 ft 5 in - 24 ft	22 mph	16,400	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-80-3	2,150 lbs @ 30 ft	45 ft 8 in	11 ft 6 in - 30 ft	22 mph	16,750	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-200-2	4,200 lbs @ 36 ft	45 ft 4 in	15 ft 2 in - 36 ft 2 in	18 mph	28,500	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Broderson	IC-200-3	2,600 lbs @ 50 ft	58 ft 8 in	15 ft 6 in - 50 ft 6 in	18 mph	31,080	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Broderson	IC-250	3,650 lbs @ 50 ft	87 ft 11 in	15 ft 7 in - 50 ft 1 in	18 mph	37,700	7 ft 10 in	D/LPG	75	16.3	18
Broderson	IC-280-A	n/s	69 ft 10 in	18 ft 6 in - 59 ft 5 in	18 mph	41,930	7 ft 10 in	Diesel	75	n/s	20
Broderson	RT-400	3,600 lbs @ 68 ft	98 ft	21 ft 11 in - 68 ft	24 mph	51,900	8 ft 5 in	Diesel	75	18.1	20
Broderson	IC-400	1,900 lbs @ 84 ft	95 ft	18 ft - 64 ft 6 in	23 mph	54,900	8 ft 6 in	Diesel	75	22.7	25
Broderson	IC-600-A	2,950 lbs @ 80 ft	81 ft 1 in	23 ft - 70 ft	n/s	60,240	8 ft 6 in	Diesel	75	n/s	30
EZ Rig Crane	EzRig	1,950 lbs @ 20 ft	26 ft	9.75/21 ft	n/s	1,300	2 ft 10 in	E	n/s	1	1.2
Grove	GCD09	1,080 lbs @ 42 ft	48 ft	14.2/33.2 ft	19.2	16,900	6 ft 6 in	D & LPG/Gas	n/s	8.1	9
Grove	GCD15	1,140 lbs @ 61.5 ft	69.5 ft	17/ 50 ft	16	25,200	7 ft 10 in	D & LPG/Gas	n/s	13.6	15
Grove	GCD20	800 lbs @ 76 ft	86 ft	18.5/54.5 ft	21	36,600	8 ft 1 in	D & LPG/Gas	n/s	18.1	20
Grove	GCD25	1,440 lbs @ 84 ft	95 ft	23/70.5 ft	19.4	45,700	8 ft 1 in	D	n/s	22.7	25
Jekko	SPB209	440 lbs @ 21 in	25 in 4 ft	6 to 20 ft	n/s	1.6 t	2 ft 7 in	E/G/LPG	n/s	0.99	1.09
Jekko	SPB209	440 lbs @ 21in	25 in 4 ft	6 to 20 ft	n/s	1.6 t	2 ft 7 in	E/G/LPG	n/s	0.99	1.09
Jekko	SPX312	440 lbs @ 26 in 3 ft	29 in 6 ft	7 to 25 ft	n/s	1.98 t	2 ft 7 in	E/G/LPG	n/s	1.2	1.32
Jekko	SPX312	440 lbs @ 26 in 3 ft	29 in 6 ft	7 to 25 ft	n/s	1.98 t	2 ft 7 in	E/G/LPG	n/s	1.2	1.32
Jekko	SPD360	880 lbs @ 25 ft	42 ft	5 to 25 ft	n/s	2.7 t	2 ft 7 in	E/LPG/D	n/s	1.98	2.18
Jekko	SPD360	880 lbs @ 25 ft	42 ft	5 to 25 ft	n/s	2.7 t	2 ft 7 in	E/LPG/D	n/s	1.98	2.18
Jekko	MPK20	380 lbs @ 8 ft	15 ft	4 to 12 ft	n/s	2.2 t	3 ft 1 in	E	n/s	2.2	2.46
Jekko	MPK20	380 lbs @ 8 ft	15 ft	4 to 12 ft	n/s	2.2 t	3 ft 1 in	E	n/s	2.2	2.46
Jekko	SPX527	550 lbs @ 40 ft	57 ft	8 to 40 ft	n/s	4 t	3 ft 7 in	D/E	n/s	2.97	3.27
Jekko	SPX527	550 lbs @ 40 ft	57 ft	8 to 40 ft	n/s	4 t	3 ft 7 in	D/E	n/s	2.97	3.27
Jekko	SPX1040	1100 lbs @ 43 ft	75 ft	10 to 43 ft	n/s	6.1 t	4 ft 7 in	D/E	n/s	4.4	4.85
Jekko	SPX1040	1100 lbs @ 43 ft	75 ft	10 to 43 ft	n/s	6.1 t	4 ft 7 in	D/E	n/s	4.4	4.85
Jekko	SPK60	550 lbs @ 56 in 1 ft	82 in 4 ft	16 in 1 ft to 58 in 01 ft	n/s	15.5 t	7 ft 6 in	D/E	n/s	5.99	6.61
Jekko	SPX1275	1,320 lbs @ 52 ft 6 in	87 ft	16 to 58 ft	n/s	11 t	4 ft 7 in	D/E	n/s	4.9	8
Jekko	SPX1275	1320 lbs @ 52 ft 6 in	87 ft	16 to 58 ft	n/s	11 t	4 ft 7 in	D/E	n/s	4.9	8
JMG	MC20	550 lbs @ 12 in 11 ft	20 ft	10 ft /12 in 11 ft	2.5	4,400	3 in 1 ft	E	n/s	2	2.2
JMG	MC20	550 lbs @ 12 in 11ft	20 ft	10 ft /12 in 11 ft	2.5	4400	3 in 1 ft	E	n/s	2	2.2
JMG	MC22	550 lbs @ 12 in 11 ft	20 ft	10 ft /12 in 11 ft	3	4,500	3 in 1 ft	E	n/s	2.18	2.4
JMG	MC22	550 lbs @ 12 in 11ft	20 ft	10 ft /12 in 11 ft	3	4500	3 in 1 ft	E	n/s	2.18	2.4
JMG	MC20S	600 lbs @ 12 in 11 ft	20 ft	10 ft /12 in 11 ft	2.5	5,500	3 in 1 ft	E	n/s	2.5	2.75

## INDUSTRIAL CRANES BY MANUFACTURER

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
JMG	MC25	600 lbs @ 12 in 11 ft	20 ft	10 ft /12 in 11 ft	3	5,500	3 in 1 ft	E	n/s	2.5	2.75
JMG	MC20S	600 lbs @ 12 in 11 ft	20 ft	10 ft /12 in 11 ft	2.5	5500	3 in 1 ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12 in 11 ft	20 ft	10 ft /12 in 11 ft	3	5500	3 in 1 ft	E	n/s	2.5	2.75
JMG	MC32	1030 lbs @ 13 in 1 ft	22 ft	11 ft /13 in 1 ft	3	6,750	3 in 2 ft	E	n/s	3.18	3.5
JMG	MC32	1030 lbs @ 13 in 1 ft	22 ft	11 ft /13 in 1 ft	3	6750	3 in 2 ft	E	n/s	3.18	3.5
JMG	MC40S	1750 lbs @ 14 in 5 ft	23 ft	8 ft /14 in 5 ft	3	10,560	3 in 11 ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13 in 11 ft	23 ft	8 ft /13 in 11 ft	5	10,500	5 in 1 ft	E	n/s	4.5	4.95
JMG	MC40S	1750 lbs @ 14 in 5 ft	23 ft	8 ft /14 in 5 ft	3	10560	3 in 11 ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13 in 11 ft	23 ft	8 ft /13 in 11 ft	5	10500	5 in 1 ft	E	n/s	4.5	4.95
JMG	MC60	2100 lbs @ 18 in 1 ft	28 ft	1 in 8 ft /18 in 1 ft	5	14,300	5 in 5 ft	E	n/s	6	6.6
JMG	MC60	2100 lbs @ 18 in 1 ft	28 ft	1 in 8 ft /18 in 1 ft	5	14300	5 in 5 ft	E	n/s	6	6.6
JMG	MC85	3600 lbs @ 15 in 8 ft	26 ft	1 in 8 ft /15 in 8 ft	5	20000	5 in 7 ft	E/D	n/s	8.5	9.35
JMG	MC85	3600 lbs @ 15 in 8 ft	26 ft	1 in 8 ft /15 in 8 ft	5	20000	5 in 7 ft	E/D	n/s	8.5	9.35
JMG	MC110	4400 lbs @ 23 in 6 ft	35 ft	3 in 3 ft /23 in 6 ft	5	29650	6 in 5 ft	E/D	n/s	11	12.1
JMG	MC110	4400 lbs @ 23 in 6 ft	35 ft	3 in 3 ft /23 in 6 ft	5	29650	6 in 5 ft	E/D	n/s	11	12.1
JMG	MC160	6200 lbs @ 24 in 7 ft	36 ft	3 in 3 ft /24 in 7 ft	5	41000	6 in 9 ft	E	n/s	16.04	17.65
JMG	MC160	6200 lbs @ 24 in 7 ft	36 ft	3 in 3 ft /24 in 7 ft	5	41000	6 in 9 ft	E	n/s	16.04	17.65
JMG	MC220	8200 lbs @ 25 in 3 ft	38 ft	3 in 3 ft /25 in 3 ft	5	50400	7 in 3 ft	E	n/s	22.04	24.25
JMG	MC220	8200 lbs @ 25 in 3 ft	38 ft	3 in 3 ft /25 in 3 ft	5	50400	7 in 3 ft	E	n/s	22.04	24.25
JMG	MC300	10100 lbs @ 27 in 8 ft	42 ft	3 in 3 ft /27 in 8 ft	5	59800	7 in 5 ft	E	n/s	30	33
JMG	MC300	10100 lbs @ 27 in 8 ft	42 ft	3 in 3 ft /27 in 8 ft	5	59800	7 in 5 ft	E	n/s	30	33
JMG	MC450	13900 lbs @ 27 in 11 ft	40 ft	3 in 3 ft /27 in 11 ft	5	70500	7 in 6 ft	E	n/s	45.09	49.6
JMG	MC450	13900 lbs @ 27 in 11 ft	40 ft	3 in 3 ft /27 in 11 ft	5	70500	7 in 6 ft	E	n/s	45.09	49.6
JMG	MC500	14300 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	83600	7 in 10 ft	E	n/s	50.09	55.1
JMG	MC500	14300 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	83600	7 in 10 ft	E	n/s	50.09	55.1
JMG	MC600	15400 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	85800	7 in 10 ft	E	n/s	60	66
JMG	MC600	15400 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	85800	7 in 10 ft	E	n/s	60	66
Lift Systems	MBL033	20,800 lbs @ 20.5 ft	33 ft	15-30 ft	1.7	36,000	6 ft 0 in	D/LPG	0.85	30	33
Lift Systems	MBL033	20,800 lbs @ 20.5 ft	33 ft	15-30 ft	1.7	36,000	6 ft 0 in	D/LPG	0.85	30	33
Lift Systems	TWL040	24,100 lbs @ 19 ft	30.5 ft	13-29 ft	1.7	32,000	7 ft 3 in	D/LPG	0.85	36	40
Lift Systems	TWL040	24,100 lbs @ 19 ft	30.5 ft	13-29 ft	1.7	32,000	7 ft 3 in	D/LPG	0.85	36	40
Lift Systems	MBL075	18,800 lbs @ 35 ft	44 ft	20-44 ft	1.7	49,000	7 ft 11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30,200 lbs @ 22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48,000	7 ft 10 in	D/LPG	0.85	68	75
Lift Systems	MBL075	18,800 lbs @ 35 ft	44 ft	20-44 ft	1.7	49,000	7 ft 11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30,200 lbs @ 22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48,000	7 ft 10 in	D/LPG	0.85	68	75
Lift Systems	MBL110	29,200 lbs @ 35 ft	44 ft	21-45 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38,900 lbs @ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	MBL110	29,200 lbs @ 35 ft	44 ft	21-45 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38,900 lbs @ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Maeda	MC285-2	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in - 28 ft 1 in	1.36	4,325	30 in	D/E/LPG/Gas	85	2.81	3.1
Maeda	MC285-2	330 lbs @ 26 ft 10 in	28 ft 6 in	8 ft 3 in - 28 ft 1 in	1.36	4,322	30 in	D/E	85	2.81	3.1
Maeda	MC305-2	570 lbs @ 39 ft 6 in	47 ft 0 in	12 ft 1 in - 41 ft 0 in	1.7	8,800	51 in	D/E	85	2.97	3.28
Maeda	MC305-2	570 lbs @ 39 ft 6 in	41 ft 0 in	12 ft 1 in - 41 ft 0 in	1.7	8,800	51 in	D/E	85	2.97	3.28
Maeda	MC405	500 lbs @ 52 ft 5 in	67 ft 11 in	15 ft 6 in - 54 ft 0 in	2.05	12,400	55 in	D/E	85	3.84	4.24
Maeda	MC405	500 lbs @ 52 ft 5 in	67 ft 11 in	15 ft 6 in - 54 ft 0 in	2.05	12,400	54 in	D/E	85	3.84	4.24
Maeda	CC1485	940 lbs @ 52 ft 10 in	72 ft 2 in	15 ft 6 in - 53 ft 4 in	1.99	31,747	8 ft 2 in	D	75	6	6.6
Maeda	CC1485	940 lbs @ 52 ft 10 in	72 ft 2 in	15 ft 6 in - 53 ft 4 in	1.99	31,747	8 ft 2 in	D	75	6	6.6
Manitex	CD-100	4,024 @ 23 ft	33 ft	11.6 ft / 25.4 ft	17.9	16,535	6.5 ft	Diesel	N/S	9.07	10
Manitex	M-150	5,400 @ 55 ft	85.5 ft	24/ 62.5 ft	26	43000	8 ft	Diesel	N/S	13.6	15
Manitex	M-300	5,400 @ 70 ft	90 ft	26.2 ft / 77 ft	25	54750	8.5 ft	Diesel	N/S	27.2	30
Manitex Valla	19	880 lbs @ 10 ft	15 ft	83	2.5	4,400	37 in	Battery	125	.9 t	1
Manitex Valla	25 EL	880 lbs @ 10 ft	15 ft	83	2.5	4,400	37 in	Battery	125	2.25	2.5
Manitex Valla	25 E	1100 lbs @ 10 ft	15 ft	83	2.5	5,300	37 in	Battery	125	2.5	2.75
Manitex Valla	35 EVO	660 lbs @ 16 ft	23 ft	90	3.2	5,510	39 in	Battery	125	3.5	3.85
Manitex Valla	50	1760 lbs @ 16 ft	25 ft	106	5.6	12,120	55 in	Battery/Diesel	125	5	5.5
Manitex Valla	75	1980 lbs @ 17 ft	26 ft	133	5.6	13,450	68 in	Battery/Diesel	125	7.5	8.25
Manitex Valla	90	3960 lbs @ 18 ft	26 ft	144	5.6	19,480	68 in	Battery/Diesel	125	9	9.9
Manitex Valla	120	3970 lbs @ 25 ft	33 ft	159	5.6	30,850	82 in	Battery/Diesel	125	12	13.2



## INDUSTRIAL CRANES BY MANUFACTURER

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Manitex Valla	180	6600 lbs @ 24 ft	35 ft	176	5	41,850	86 in	Battery/Diesel	125	18	19.8
Manitex Valla	250	4180 lbs @ 33 ft	45 ft	191	5	53,350	90 in	Battery Diesel	125	25	27.5
Manitex Valla	400	18070 lbs @ 24 ft	36 ft	223	5	70,550	92 in	Battery/Diesel/Hybrid	125	40	44
Ormig	5.5TM	1,660 lbs @ 19 ft	29.52 ft	12.46/31.16 ft	6.83	14770	5 ft	D	n/s	5.5	6.06
Ormig	5.5TME	1660 lbs @ 19 ft	29.52 ft	12.46/31.16 ft	3	15652	5 ft	E	n/s	5.5	6.06
Ormig	5.5TM	0.75@6	9.10 m	3.8/8.8	11.0 km/h	6.7 t	1.6	D	n/s	5.5	6.06
Ormig	5.5TME	0.75@6	9.10 m	3.8/8.8	6.25 km/h	7.1 t	1.6	E	n/s	5.5	6.06
Ormig	10TM	4519 lbs @ 19 ft	28 ft	14-31 ft	8.56	22928	7 ft	D	n/s	10	11.02
Ormig	10TME	4519 lbs @ 19 ft	28 ft	14-31 ft	6.35	22928	7 ft	E	n/s	10	11.02
Ormig	10TM	2.05@6	8.8 m	4.56/9.56	13.79 km/h	10.4 t	2.25	D	n/s	10	11.02
Ormig	10TME	2.05@6	8.8 m	4.56/9.56	10.23 km/h	10.7 t	2.25	E	n/s	10	11.02
Ormig	16TM	5291 lbs @ 22 ft	34 ft	15-35 ft	19.91	31085	7 ft 50 in	D	n/s	16	17.64
Ormig	16TME	5291 lbs @ 22 ft	34 ft	15-35 ft	7.57	31746	7 ft 50 in	E	n/s	16	17.64
Ormig	16TM	2.4@7	10.6 m	4.77/10.97	32.05 km/h	14.1 t	2.35/2.5	D	n/s	16	17.64
Ormig	16TME	2.4@7	10.6 m	4.77/10.97	12.19 km/h	14.4 t	2.35/2.5	E	n/s	16	17.64
Ormig	20/25TM	9259 lbs @ 25 ft	40 ft	17-40 ft	17.09	39,683	8 ft 20 in	D	n/s	20/25	27.56
Ormig	25TME	9259 lbs @ 25 ft	40 ft	17-40 ft	6.42	45194	8 ft 20 in	E	n/s	25	27.56
Ormig	25TME	4.2@7.7	12.4 m	5.4/12.4	10.34 km/h	20.5	2.5	E	n/s	25	27.56
Ormig	20/25TM	4.2@7.7	12.8 m	5.4/12.4	27.50 km/h	18 t	2.5	D	n/s	20/25	27.56
Ormig	33TM	11023 lbs @ 27 ft	47 ft	21-45 ft	15.53	61729	8 ft 20 in	D	n/s	33	36.8
Ormig	33TME	11023 lbs @ 27 ft	47 ft	21-45 ft	4.39	63493	8 ft 20 in	E	n/s	33	36.8
Ormig	33TM	5@8.5	14.6 m	6.5/14	25 km/h	28 t	2.55	D	n/s	33	36.8
Ormig	33TME	5@8.5	14.6 m	6.5/14	7.08 km/h	28.8 t	2.5	E	n/s	33	36.8
Ormig	40IE	13227 lbs @ 28 ft	42.32 ft	20-43 ft	4	46517	7 ft 22 in	E	n/s	40	44
Ormig	45TME	17416 lbs @ 29 ft	46 ft	20-47 ft	3.34	63934	9 ft	E	n/s	45	49.59
Ormig	45TME	7.9@9	14.2 m	6.38/14.38	5.37 km/h	29 t	2.75	E	n/s	45	49.59
Ormig	50/55TM	19621 lbs @ 29 ft	46 ft	20-47 ft	16.59	63,934	8 ft 20 in	D	n/s	50/55	60.63
Ormig	50/55TM	mt 8.9@9m	14.2 m	6.38/14.38	26.70 km/h	29 t	2.75	D	n/s	50/55	60.63
Ormig	60TM	22707 lbs @ 34 ft	51 ft	22-54 ft	15.9	79366	9 ft 8 in	D	n/s	60	66.1
Ormig	55/60IE	19180 lbs @ 27 ft	40 ft	19-43 ft	3.9	52910	7 ft 7 in	E	n/s	60	66.1
Ormig	60TM	10.3@10.5	15.80 m	7.0/16.5	25.60 km/h	36 t	3.00	D	n/s	60	66.1
Ormig	55/60IE	8.7 @ 8.5 mt	n/s	n/s	n/s	n/s	n/s	E	n/s	60	66.1
Riggers Manufacturing	TL100	39,000 lbs @ 108 in	24.75 ft	0-12 ft	1.7	38,000	6 ft 1 in	D/LPG	n/s	45	50
Riggers Manufacturing	TL100	39,000 lbs @ 108 in	24.75 ft	0-12 ft	1.7	38,000	6 ft 1 in	D/LPG	n/s	45	50
Riggers Manufacturing	TL150BW	56,000 lbs @ 120 in	24.75 ft	0-12 ft	1.7	40,000	7 ft 7 in	D/LPG	n/s	68	75
Riggers Manufacturing	TL150BW	56,000 lbs @ 120 in	24.75 ft	0-12 ft	1.7	40,000	7 ft 7 in	D/LPG	n/s	68	75
Riggers Manufacturing	TL220BW	83,700 lbs @ 120 in	24.75 ft	0-12 ft	1.7	58,000	8 ft 6 in	D/LPG	n/s	100	110
Riggers Manufacturing	TL220BW	83,700 lbs @ 120 in	24.75 ft	0-12 ft	1.7	58,000	8 ft 6 in	D/LPG	n/s	100	110
Shuttlelift	SCD09	1080 lb @ 42 ft	48 ft	14.2/33.2 ft	19.2	16,900	6 ft 6 in	D & LPG/Gas	n/s	8.1	9
Shuttlelift	SCD15	1140 lb @ 61.5 ft	69.5 ft	17/ 50 ft	16	25,200	7 ft 10 in	D & LPG/Gas	n/s	13.6	15
Shuttlelift	SCD20	800 lb @ 76 ft	86 ft	18.5/54.5 ft	21	36,600	8 ft 1 in	D & LPG/Gas	n/s	18.1	20
Shuttlelift	SCD25	1,440 lb @ 84 ft	95 ft	23/70.5 ft	19.4	45,700	8 ft 1 in	D	n/s	22.7	25
SPYDERCRANE	PC094	440 lbs @ 17.5 ft	16 ft	5.8 ft - 18.1 ft	2.5	2,500	31 in	Battery/110V	n/s	0.9	1
SPYDERCRANE	URW094	440 lbs @ 16.96 ft	20 ft	5.8 ft - 18.1 ft	1.5	2,400	23 in	Battery/110V	n/s	0.9	1
SPYDERCRANE	URW095	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW095S	460 lbs @ 24.1 ft	27 ft	8.3 ft - 24.9 ft	1.5	4,100 - 4,500	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW205	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW205S	460 lbs @ 24.1 ft	27 ft	8.3 ft - 24.9 ft	1.5	4,100 - 4,500	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW306	280 lbs @ 47.3 ft	52 ft	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW506	390 lbs @ 49.9	55 ft	13.1 ft - 49.9 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW295	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	2.9	3.2
SPYDERCRANE	URW376	280 lbs @ 47.3 ft	58 ft w/ jib	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.93	3.3
SPYDERCRANE	URW547	220 lbs @ 58.5	64 ft	13.1 ft - 59.1 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	4.04	4.5
SPYDERCRANE	URW706	550 lbs @ 61 ft	80 ft w/ jib	15.7 ft - 63 ft	2.5	17,600 - 18,000	64 in	220V/D/110V/Battery	n/s	6.04	6.7
Up Equip/Hoefflon	C1	1380 lbs @ 3 ft	16 ft	5 ft / 13 ft	1.88	1,500	29.5 in	G/LPG/E	125	n/s	0.7
Up Equip/Hoefflon	C4	5170 lbs @ 6 ft	46 ft	8 ft / 42 ft	1.88	4,730	29.5 in	D/E	125	n/s	2.6
Up Equip/Hoefflon	C6	6940 lbs @ 6 ft	52 ft	8 ft-4 in / 46 ft	1.88	6,170	29.5 in	D/E	125	n/s	3.5
Up Equip/Hoefflon	C10	8810 lbs @ 6 ft	72 ft	12 ft 5 in / 66 ft	1.88	10,358	31.5 in	D/E	125	n/s	4.5

## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/ in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Up Equip/Hoeflon	C1	1380lbs @ 3 ft	16 ft	5 ft/13 ft	1.88	1,500	29.5 in	G/LPG/E	125	n/s	0.7
Bailey Cranes	Junior	700 lbs @ 11 ft	19 ft	11 ft	1.75	4,300	34.5 in	Battery	75	0.88	0.97
Bailey Cranes	Brandon 6E	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5,500	34.5 in	Battery	75	0.88	0.97
Manitex Valla	19	880 lbs @ 10 ft	15 ft	83	2.5	4,400	37 in	Battery	125	.9 t	1
SPYDERCRANE	PC094	440 lbs @ 17.5 ft	16 ft	5.8 ft - 18.1 ft	2.5	2,500	31 in	Battery/110V	n/s	0.9	1
SPYDERCRANE	URW094	440 lbs @ 16.96 ft	20 ft	5.8 ft - 18.1 ft	1.5	2,400	23 in	Battery/110V	n/s	0.9	1
SPYDERCRANE	URW095	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
SPYDERCRANE	URW095S	460 lbs @ 24.1 ft	27 ft	8.3 ft - 24.9 ft	1.5	4,100 - 4,500	24 in	220V/D/G/LPG/110V/Battery	n/s	0.9	1
Jekko	SPB209	440 lbs @ 21 in	25 in 4 ft	6 to 20 ft	n/s	1.6 t	2 ft 7 in	E/G/LPG	n/s	0.99	1.09
Jekko	SPB209	440 lbs @ 21 in	25in 4 ft	6 to 20 ft	n/s	1.6 t	2 ft 7 in	E/G/LPG	n/s	0.99	1.09
EZ Rig Crane	EzRig	1,950 lbs @ 20 ft	26 ft	9.75/21 ft	n/s	1,300	2 ft 10 in	E	n/s	1	1.2
Bailey Cranes	OMNI	500 lbs @ 14 ft	22 ft	14 ft	1.75	5,800	4 ft 10 in	Battery	75	1.13	1.25
Jekko	SPX312	440 lbs @ 26 in 3 ft	29 in 6 ft	7 to 25 ft	n/s	1.98 t	2 ft 7 in	E/G/LPG	n/s	1.2	1.32
Jekko	SPX312	440 lbs @ 26 in 3 ft	29 in 6 ft	7 to 25 ft	n/s	1.98 t	2 ft 7 in	E/G/LPG	n/s	1.2	1.32
Bailey Cranes	Brandon 6	1,000 lbs @ 12 ft	19 ft	12 ft	1.75	5,500	34.5 in	Battery	75	1.36	1.50
Jekko	SPD360	880 lbs @ 25 ft	42 ft	5 to 25 ft	n/s	2.7 t	2 ft 7 in	E/LPG/D	n/s	1.98	2.18
Jekko	SPD360	880 lbs @ 25 ft	42 ft	5 to 25 ft	n/s	2.7 t	2 ft 7 in	E/LPG/D	n/s	1.98	2.18
JMG	MC20	550 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	2.5	4,400	3 in 1 ft	E	n/s	2	2.2
JMG	MC20	550 lbs @ 12 in 11ft	20 ft	10 ft/12 in 11 ft	2.5	4400	3 in 1 ft	E	n/s	2	2.2
JMG	MC22	550 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	3	4,500	3 in 1 ft	E	n/s	2.18	2.4
JMG	MC22	550 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	3	4500	3 in 1 ft	E	n/s	2.18	2.4
Jekko	MPK20	380 lbs @ 8 ft	15 ft	4 to 12 ft	n/s	2.2 t	3 ft 1 in	E	n/s	2.2	2.46
Jekko	MPK20	380 lbs @ 8 ft	15 ft	4 to 12 ft	n/s	2.2 t	3 ft 1 in	E	n/s	2.2	2.46
Broderson	IC-20	1,200 lbs @ 15 ft	27 ft 9 in	6 ft/15 ft	5.5 mph	6,380	4 ft	D/Dual Fuel	75	2.27	2.5
Manitex Valla	25 EL	880 lbs @ 10 ft	15 ft	83	2.5	4,400	37 in	Battery	125	2.25	2.5
Up Equip/Hoeflon	C4	5170 lbs @ 6 ft	46 ft	8 ft/ 42 ft	1.88	4,730	29.5 in	D/E	125		2.6
JMG	MC20S	600 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	2.5	5,500	3 in 1 ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	3	5,500	3 in 1 ft	E	n/s	2.5	2.75
JMG	MC20S	600 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	2.5	5500	3 in 1 ft	E	n/s	2.5	2.75
JMG	MC25	600 lbs @ 12 in 11 ft	20 ft	10 ft/12 in 11 ft	3	5500	3 in 1 ft	E	n/s	2.5	2.75
Manitex Valla	25 E	1100 lbs @ 10 ft	15 ft	83	2.5	5,300	37 in	Battery	125	2.5	2.75
SPYDERCRANE	URW205	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW205S	460 lbs @ 24.1 ft	27 ft	8.3 ft - 24.9 ft	1.5	4,100 - 4,500	24 in	220V/D/G/LPG/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW306	280 lbs @ 47.3 ft	52 ft	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.6	2.9
SPYDERCRANE	URW506	390 lbs @ 49.9	55 ft	13.1 ft - 49.9 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	2.6	2.9
Maeda	MC285-2	330 lbs @ 26 ft 10 in	31 ft 10 in	8 ft 3 in - 28 ft 1 in	1.36	4,325	30 in	D/E/LPG/Gas	85	2.81	3.1
Maeda	MC285-2	330 lbs @ 26 ft 10 in	28 ft 6 in	8 ft 3 in - 28 ft 1 in	1.36	4,322	30 in	D/E	85	2.81	3.1
SPYDERCRANE	URW295	350 lbs @ 27.59 ft	37 ft w/ jib	8.3 ft - 28.4 ft	1.5	4,200 - 4,600	24 in	220V/D/G/LPG/110V/Battery	n/s	2.9	3.2
Jekko	SPX527	550 lbs @ 40 ft	57 ft	8 to 40 ft	n/s	4 t	3 ft 7 in	D/E	n/s	2.97	3.27
Jekko	SPX527	550 lbs @ 40 ft	57 ft	8 to 40 ft	n/s	4 t	3 ft 7 in	D/E	n/s	2.97	3.27
Maeda	MC305-2	570 lbs @ 39 ft 6 in	47 ft 0 in	12 ft 1 in - 41 ft 0 in	1.7	8,800	51 in	D/E	85	2.97	3.28
Maeda	MC305-2	570 lbs @ 39 ft 6 in	41 ft 0 in	12 ft 1 in - 41 ft 0 in	1.7	8,800	51 in	D/E	85	2.97	3.28
SPYDERCRANE	URW376	280 lbs @ 47.3 ft	58 ft w/ jib	11.5 ft - 48 ft	2.5	8,500 - 8,900	52 in	220V/D/110V/Battery	n/s	2.93	3.3
JMG	MC32	1030 lbs @ 13 in 1 ft	22 ft	11 ft/13 in 1 ft	3	6,750	3 in 2 ft	E	n/s	3.18	3.5
JMG	MC32	1030 lbs @ 13 in 1 ft	22 ft	11 ft/13 in 1 ft	3	6750	3in 2ft	E	n/s	3.18	3.5
Up Equip/Hoeflon	C6	6940 lbs @ 6 ft	52 ft	8 ft 4 in / 46 ft	1.88	6,170	29.5 in	D/E	125	n/s	3.5
Manitex Valla	35 EVO	660 lbs @ 16 ft	23 ft	90	3.2	5,510	39 in	Battery	125	3.5	3.85
Broderson	IC-35	1,850 lbs @ 19 ft	33 ft	7 ft 2 in - 19 ft 2 in	10 mph	7,860	5 ft	D/Dual Fuel	75	3.6	4
Maeda	MC405	500 lbs @ 52 ft 5 in	67 ft 11 in	15 ft 6 in - 54 ft 0 in	2.05	12,400	55 in	D/E	85	3.84	4.24
Maeda	MC405	500 lbs @ 52 ft 5 in	67 ft 11 in	15 ft 6 in - 54 ft 0 in	2.05	12,400	54 in	D/E	85	3.84	4.24
Broderson	IC-40	1,850 lbs @ 19 ft	33 ft	7 ft 2 in - 19 ft 2 in	10 mph	8,920	5 ft 4 in	D/Dual Fuel	75	4.08	4.5
SPYDERCRANE	URW547	220 lbs @ 58.5	64 ft	13.1 ft - 59.1 ft	2.5	11,000 - 11,400	54 in	220V/D/110V/Battery	n/s	4.04	4.5
Up Equip/Hoeflon	C10	8810 lbs @ 6 ft	72 ft	12 ft 5 in/66 ft	1.88	10,358	31.5 in	D/E	125	n/s	4.5
Jekko	SPX1040	1100 lbs @ 43 ft	75 ft	10 to 43 ft	n/s	6.1 t	4 ft 7 in	D/E	n/s	4.4	4.85
Jekko	SPX1040	1100 lbs @ 43 ft	75 ft	10 to 43 ft	n/s	6.1 t	4 ft 7 in	D/E	n/s	4.4	4.85
JMG	MC40S	1750 lbs @ 14 in 5 ft	23 ft	8 ft/14 in 5 ft	3	10,560	3 in 11 ft	E	n/s	4.5	4.95
JMG	MC45	1750 lbs @ 13 in 11 ft	23 ft	8 ft/13 in 11 ft	5	10,500	5in 1 ft	E	n/s	4.5	4.95
JMG	MC40S	1750 lbs @ 14 in 5 ft	23 ft	8 ft/14 in 5 ft	3	10560	3 in 11 ft	E	n/s	4.5	4.95

## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@m) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
JMG	MC45	1750 lbs @ 13 in 11 ft	23 ft	8 ft/13 in 11 ft	5	10500	5 in 1 ft	E	n/s	4.5	4.95
Bailey Cranes	Brandon 10	1,000 lb @ 20 ft	29 ft	20 ft	5	10,500	5 ft	Battery	75	4.50	5.00
Manitex Valla	50	1760 lbs @ 16 ft	25 ft	106	5.6	12,120	55 in	Battery/Diesel	125	5	5.5
Ormig	5.5TM	1,660 lbs @ 19 ft	29.52 ft	12.46/31.16 ft	6.83	14770	5 ft	D	n/s	5.5	6.06
Ormig	5.5TME	1660lbs @ 19 ft	29.52 ft	12.46/31.16 ft	3	15652	5 ft	E	n/s	5.5	6.06
Ormig	5.5TM	0.75@6	9.10 m	3.8/8.8	11.0 km/h	6.7 t	1.6	D	n/s	5.5	6.06
Ormig	5.5TME	0.75@6	9.10 m	3.8/8.8	6.25 km/h	7.1 t	1.6	E	n/s	5.5	6.06
JMG	MC60	2100 lbs @ 18 in 1 ft	28 ft	1 in 8 ft/18 in 1 ft	5	14,300	5 in 5 ft	E	n/s	6	6.6
JMG	MC60	2100 lbs @ 18 in 1 ft	28 ft	1 in 8 ft/18 in 1 ft	5	14300	5 in 5 ft	E	n/s	6	6.6
Maeda	CC1485	940 lbs @ 52 ft 10 in	72 ft 2 in	15 ft 6 in - 53 ft 4 in	1.99	31,747	8 ft 2 in	D	75	6	6.6
Maeda	CC1485	940 lbs @ 52 ft 10 in	72 ft 2 in	15 ft 6 in - 53 ft 4 in	1.99	31,747	8 ft 2 in	D	75	6	6.6
Jekko	SPK60	550 lbs @ 56 in 1 ft	82 in 4 ft	16 in 1 ft to 58 in 01 ft	n/s	15.5 t	7 ft 6 in	D/E	n/s	5.99	6.61
SPYDERCRANE	URW706	550 lbs @ 61 ft	80 ft w/ jib	15.7 ft - 63 ft	2.5	17,600 - 18,000	64 in	220V/D/110V/Battery	n/s	6.04	6.7
Jekko	SPX1275	1,320 lbs @ 52 ft 6 in	87 ft	16 to 58 ft	n/s	11 t	4 ft 7 in	D/E	n/s	4.9	8
Jekko	SPX1275	1320 lbs @ 52 ft 6 in	87 ft	16 to 58 ft	n/s	11 t	4 ft 7 in	D/E	n/s	4.9	8
Manitex Valla	75	1980 lbs @ 17 ft	26 ft	133	5.6	13,450	68 in	Battery/Diesel	125	7.5	8.25
Bailey Cranes	BC 18	1,950 lbs @ 30 ft	46 ft	34 ft	5	20,000	6 ft 6 in	Battery/Hybrid	75	8.16	9.00
Broderson	IC-80-1	3,800 lbs @ 20 ft	37 ft 5 in	8 ft 2 in - 20 ft 2 in	22 mph	16,200	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-80-2	3,100 lbs @ 24 ft	41 ft	9 ft 5 in - 24 ft	22 mph	16,400	6 ft 6 in	D/Dual Fuel	75	8.16	9
Broderson	IC-80-3	2,150 lbs @ 30 ft	45 ft 8 in	11 ft 6 in - 30 ft	22 mph	16,750	6 ft 6 in	D/Dual Fuel	75	8.16	9
Grove	GCD09	1,080 lbs @ 42 ft	48 ft	14.2/33.2 ft	19.2	16,900	6 ft 6 in	D & LPG/Gas	n/s	8.1	9
Shuttlelift	SCD09	1080 lb @ 42 ft	48 ft	14.2/33.2 ft	19.2	16,900	6 ft 6 in	D & LPG/Gas	n/s	8.1	9
JMG	MC85	3600 lbs @ 15 in 8 ft	26 ft	1 in 8 ft/15 in 8 ft	5	20000	5 in 7 ft	E/D	n/s	8.5	9.35
JMG	MC85	3600 lbs @ 15 in 8 ft	26 ft	1 in 8 ft/15 in 8 ft	5	20000	5 in 7 ft	E/D	n/s	8.5	9.35
Manitex Valla	90	3960 lbs @ 18 ft	26 ft	144	5.6	19,480	68 in	Battery/Diesel	125	9	9.9
Manitex	CD-100	4,024 @ 23 ft	33 ft	11.6 ft / 25.4 ft	17.9	16,535	6.5 ft	DIESEL	N/S	9.07	10
Ormig	10TM	4519 lbs @ 19 ft	28 ft	14-31 ft	8.56	22928	7 ft	D	n/s	10	11.02
Ormig	10TME	4519 lbs @ 19 ft	28 ft	14-31 ft	6.35	22928	7 ft	E	n/s	10	11.02
Ormig	10TM	2.05@6	8.8 m	4.56/9.56	13.79 km/h	10.4 t	2.25	D	n/s	10	11.02
Ormig	10TME	2.05@6	8.8 m	4.56/9.56	10.23 km/h	10.7 t	2.25	E	n/s	10	11.02
JMG	MC110	4400 lbs @ 23 in 6 ft	35 ft	3 in 3 ft/23 in 6 ft	5	29650	6 in 5 ft	E/D	n/s	11	12.1
JMG	MC110	4400 lbs @ 23 in 6 ft	35 ft	3 in 3 ft/23 in 6 ft	5	29650	6 in 5 ft	E/D	n/s	11	12.1
Manitex Valla	120	3970 lbs @ 25 ft	33 ft	159	5.6	30,850	82 in	Battery/Diesel	125	12	13.2
Broderson	IC-200-2	4,200 lbs @ 36 ft	45 ft 4 in	15 ft 2 in - 36 ft 2 in	18 mph	28,500	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Broderson	IC-200-3	2,600 lbs @ 50 ft	58 ft 8 in	15 ft 6 in - 50 ft 6 in	18 mph	31,080	7 ft 10-1/2 in	D/Dual Fuel	75	13.6	15
Grove	GCD15	1,140 lbs @ 61.5 ft	69.5 ft	17/ 50 ft	16	25,200	7 ft 10 in	D & LPG/Gas	n/s	13.6	15
Manitex	M-150	4,300 @ 55 ft	85.5 ft	24/ 62.5 ft	26	43000	8 ft	DIESEL	N/S	13.6	15
Shuttlelift	SCD15	1140 lb @ 61.5 ft	69.5 ft	17/ 50 ft	16	25,200	7 ft 10 in	D & LPG/Gas	n/s	13.6	15
Ormig	16TM	5291lbs @ 22 ft	34ft	15-35 ft	19.91	31085	7 ft 50 in	D	n/s	16	17.64
Ormig	16TME	5291lbs @ 22 ft	34 ft	15-35 ft	7.57	31746	7 ft 50 in	E	n/s	16	17.64
Ormig	16TM	2.4@7	10.6 m	4.77/10.97	32.05 km/h	14.1 t	2.35/2.5	D	n/s	16	17.64
Ormig	16TME	2.4@7	10.6 m	4.77/10.97	12.19 km/h	14.4 t	2.35/2.5	E	n/s	16	17.64
JMG	MC160	6200 lbs @ 24 in 7 ft	36 ft	3 in 3 ft/24 in 7 ft	5	41000	6 in 9 ft	E	n/s	16.04	17.65
JMG	MC160	6200 lbs @ 24 in 7 ft	36 ft	3 in 3 ft/24 in 7 ft	5	41000	6 in 9 ft	E	n/s	16.04	17.65
Broderson	IC-250	3,650 lbs @ 50 ft	87 ft 11 in	15 ft 7 in - 50 ft 1 in	18 mph	37,700	7 ft 10 in	D/LPG	75	16.3	18
Manitex Valla	180	6600 lbs @ 24 ft	35 ft	176	5	41,850	86 in	Battery/Diesel	125	18	19.8
Broderson	IC-280-A		69 ft 10 in	18 ft 6 in - 59 ft 5 in	18 mph	41,930	7 ft 10 in	Diesel	75	n/s	20
Broderson	RT-400	3,600 lbs @ 68 ft	98 ft	21 ft 11 in - 68 ft	24 mph	51,900	8 ft 5 in	Diesel	75	18.1	20
Grove	GCD20	800 lbs @ 76 ft	86 ft	18.5/54.5 ft	21	36,600	8 ft 1 in	D & LPG/Gas	n/s	18.1	20
Shuttlelift	SCD20	800 lb @ 76 ft	86 ft	18.5/54.5 ft	21	36,600	8 ft 1 in	D & LPG/Gas	n/s	18.1	20
JMG	MC220	8200 lbs @ 25 in 3 ft	38 ft	3 in 3 ft/25 in 3 ft	5	50400	7 in 3 ft	E	n/s	22.04	24.25
JMG	MC220	8200 lbs @ 25 in 3 ft	38 ft	3 in 3 ft/25 in 3 ft	5	50400	7 in 3 ft	E	n/s	22.04	24.25
Broderson	IC-400	1,900 lbs @ 84 ft	95 ft	18 ft - 64 ft 6 in	23 mph	54,900	8 ft 6 in	Diesel	75	22.7	25
Grove	GCD25	1,440 lbs @ 84 ft	95 ft	23/70.5 ft	19.4	45,700	8 ft 1 in	D	n/s	22.7	25
Shuttlelift	SCD25	1,440 lb @ 84 ft	95 ft	23/70.5 ft	19.4	45,700	8 ft 1 in	D	n/s	22.7	25
Manitex Valla	250	4180 lbs @ 33 ft	45 ft	191	5	53,350	90 in	Battery Diesel	125	25	27.5
Ormig	20/25TM	9259 lbs @ 25 ft	40 ft	17-40 ft	17.09	39,683	8 ft 20 in	D	n/s	20/25	27.56
Ormig	25TME	9259 lbs @ 25 ft	40ft	17-40 ft	6.42	45194	8 ft 20 in	E	n/s	25	27.56



## INDUSTRIAL CRANES BY CAPACITY

Manufacturer	Model	Load at Max Radius (mt@ $m$ ) or (lbs@ft)	Max Hook Height (m) or (ft)	Boom Length Minimum/Max (m/m) or (ft/in)	Max Travel Speed (mph) or (km/h)	Normal Travel Weight (t) or (lbs)	Width (m/m) or (ft/in)	Power Source (E/D/LPG)	Tipping Load (%)	Max Lift Capacity (metric tons)	Max Lift Capacity (US tons)
Ormig	25TME	4.2@7.7	12.4 m	5.4/12.4	10.34 km/h	20.5	2.5	E	n/s	25	27.56
Ormig	20/25TM	4.2@7.7	12.8 m	5.4/12.4	27.50 km/h	18 t	2.5	D	n/s	20/25	27.56
Broderson	IC-600-A	2,950 lbs @ 80 ft	81 ft 1 in	23 ft - 70 ft	n/s	60,240	8 ft 6 in	Diesel	75	n/s	30
Manitex	M-300	5,400 @ 70 ft	90 ft	26.2 ft / 77 ft	25	54750	8.5 ft	Diesel	N/S	27.2	30
JMG	MC300	10100 lbs @ 27 in 8 ft	42 ft	3 in 3 ft /27 in 8 ft	5	59800	7 in 5 ft	E	n/s	30	33
JMG	MC300	10100 lbs @ 27 in 8 ft	42 ft	3 in 3 ft /27 in 8 ft	5	59800	7 in 5 ft	E	n/s	30	33
Lift Systems	MBL033	20,800 lbs @ 20.5 ft	33 ft	15-30 ft	1.7	36,000	6 ft 0 in	D/LPG	0.85	30	33
Lift Systems	MBL033	20,800 lbs @ 20.5 ft	33 ft	15-30 ft	1.7	36,000	6 ft 0 in	D/LPG	0.85	30	33
Ormig	33TM	11023 lbs @ 27 ft	47 ft	21-45 ft	15.53	61729	8 ft 20 in	D	n/s	33	36.8
Ormig	33TME	11023 lbs @ 27 ft	47 ft	21-45 ft	4.39	63493	8 ft 20 in	E	n/s	33	36.8
Ormig	33TM	5@8.5	14.6 m	6.5/14	25 km/h	28 t	2.55	D	n/s	33	36.8
Ormig	33TME	5@8.5	14.6 m	6.5/14	7.08 km/h	28.8 t	2.5	E	n/s	33	36.8
Lift Systems	TWL040	24,100 lbs @ 19 ft	30.5 ft	13-29 ft	1.7	32,000	7 ft 3 in	D/LPG	0.85	36	40
Lift Systems	TWL040	24,100 lbs @ 19 ft	30.5 ft	13-29 ft	1.7	32,000	7 ft 3 in	D/LPG	0.85	36	40
Manitex Valla	400	18070 lbs @ 24 ft	36 ft	223	5	70,550	92 in	Battery/Diesel/Hybrid	125	40	44
Ormig	40IE	13227 lbs @ 28 ft	42.32 ft	20-43 ft	4	46517	7 ft 22 in	E	n/s	40	44
Ormig	45TME	17416 lbs @ 29 ft	46 ft	20-47 ft	3.34	63934	9 ft	E	n/s	45	49.59
Ormig	45TME	7,9@9	14.2 m	6.38/14.38	5.37 km/h	29 t	2.75	E	n/s	45	49.59
JMG	MC450	13900 lbs @ 27 in 11 ft	40 ft	3 in 3 ft /27 in 11 ft	5	70500	7 in 6 ft	E	n/s	45.09	49.6
JMG	MC450	13900 lbs @ 27 in 11 ft	40 ft	3 in 3 ft /27 in 11 ft	5	70500	7 in 6 ft	E	n/s	45.09	49.6
Riggers Manufacturing	TL100	39,000 lbs @ 108 in	24.75 ft	0-12 ft	1.7	38,000	6 ft 1 in	D/LPG	n/s	45	50
Riggers Manufacturing	TL100	39,000 lbs @ 108 in	24.75 ft	0-12 ft	1.7	38,000	6 ft 1 in	D/LPG	n/s	45	50
JMG	MC500	14300 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	83600	7 in 10 ft	E	n/s	50.09	55.1
JMG	MC500	14300 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	83600	7 in 10 ft	E	n/s	50.09	55.1
Ormig	50/55TM	19621 lbs @ 29 ft	46 ft	20-47 ft	16.59	63,934	8 ft 20 in	D	n/s	50/55	60.63
Ormig	50/55TM	mt 8.9@9m	14.2 m	6.38/14.38	26.70 km/h	29 t	2.75	D	n/s	50/55	60.63
JMG	MC600	15400 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	85800	7 in 10 ft	E	n/s	60	66
JMG	MC600	15400 lbs @ 30 in 5 ft	45 ft	3 in 3 ft /30 in 5 ft	3	85800	7 in 10 ft	E	n/s	60	66
Ormig	60TM	22707lbs @ 34 ft	51 ft	22-54 ft	15.9	79366	9 ft 8 in	D	n/s	60	66.1
Ormig	55/60IE	19180 lbs @ 27 ft	40 ft	19-43 ft	3.9	52910	7 ft 7in	E	n/s	60	66.1
Ormig	60TM	10.3@10.5	15.80 m	7.0/16.5	25.60 km/h	36 t	3.00	D	n/s	60	66.1
Ormig	55/60IE	8.7 @ 8.5 mt	n/s	n/s	n/s	n/s	n/s	E	n/s	60	66.1
Lift Systems	MBL075	18,800 lbs @ 35 ft	44 ft	20-44 ft	1.7	49,000	7 ft 11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30,200 lbs @ 22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48,000	7 ft 10 in	D/LPG	0.85	68	75
Lift Systems	MBL075	18,800 lbs @ 35 ft	44 ft	20-44 ft	1.7	49,000	7 ft 11 in	D/LPG	0.85	68	75
Lift Systems	TWL075	30,200 lbs @ 22.5 ft	37.5 ft	16.5-36.5 ft	1.7	48,000	7 ft 10 in	D/LPG	0.85	68	75
Riggers Manufacturing	TL150BW	56,000 lbs @ 120 in	24.75 ft	0-12 ft	1.7	40,000	7 ft 7 in	D/LPG	n/s	68	75
Riggers Manufacturing	TL150BW	56,000 lbs @ 120 in	24.75 ft	0-12 ft	1.7	40,000	7 ft 7 in	D/LPG	n/s	68	75
Lift Systems	MBL110	29,200 lbs @ 35 ft	44 ft	21-45 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38,900 lbs @ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	MBL110	29,200 lbs @ 35 ft	44 ft	21-45 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Lift Systems	TWL110	38,900 lbs @ 24.5 ft	39 ft	16.5-36.5 ft	1.7	70,000	8 ft 6 in	D/LPG	0.85	100	110
Riggers Manufacturing	TL220BW	83,700 lbs @ 120 in	24.75 ft	0-12 ft	1.7	58,000	8 ft 6 in	D/LPG	n/s	100	110
Riggers Manufacturing	TL220BW	83,700 lbs @ 120 in	24.75 ft	0-12 ft	1.7	58,000	8 ft 6 in	D/LPG	n/s	100	110

## RUBBER TIRED GANTRY CRANES BY MANUFACTURER

Manufacturer	Model	Standard Inside Clear Height/ Hook Height (ft)	Standard Inside Clear Width (ft)	Number of tires	Remote control capability Y/N	Steering mode	Driving speed (mph)	Capacity (US tons)
Enerpac	Travel Gantry ETL600	20	30 x 15	4	Yes	Carrousel	3	67
Mi-Jack Translift	MJ 1200R	20	30 x 15	4	Yes	DGPS	n/s	50
Mi-Jack Translift	MJ 1200R EH	23	40 to 60	8	Yes	DGPS	n/s	50
Mi-Jack Translift	MJ 1200R-DS	31	up to 70	4	Yes	All wheel	n/s	50
Mi-Jack Travelift	MJ 20 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	20
Mi-Jack Travelift	MJ 30 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	30
Mi-Jack Travelift	MJ 40 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	40
Mi-Jack Travelift	MJ50C	35.5 to 45.5	n/s	4	Yes	All wheel	n/s	44.1
Mi-Jack Travelift	MJ 50 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	50
Mi-Jack Travelift	MJ 900P	n/s	20 to 40	4	Yes	90 degree transverse	n/s	50
Mi-Jack Travelift	MJ 60 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	60
Mi-Jack Travelift	MJ 65 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	65
Mi-Jack Travelift	MJ 70 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	70
Mi-Jack Travelift	MJ 85 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	85
Mi-Jack Travelift	MJ 100 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	100
Mi-Jack Travelift	MJ150 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	150
Shuttlelift	SB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	DB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	ISL 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	SL 35II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		35
Shuttlelift	ISL 40	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		40
Shuttlelift	SB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	DB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	SL 50II	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	ISL 50	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	SB 70	25 (customizable)	30 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	ISL 70	25 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	SL 75II	22 (customizable)	21 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		75
Shuttlelift	SL 85II	25 (customizable)	24 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		85
Shuttlelift	DB 90	30 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		90
Shuttlelift	ISL 100	30 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	DB 110	30 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		110
Shuttlelift	SB 120	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		120
Shuttlelift	SB 150	40 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	SL 150II	30 (customizable)	28 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	ISL 150	35 (customizable)	40 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	DB 165	35 (customizable)	40 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		165
Shuttlelift	DB 200	40 (customizable)	50 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 200II	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 250	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		250
Shuttlelift	SL 300	34 (customizable)	32 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		300
Shuttlelift	SL 500	40 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		500
Shuttlelift	SL 600	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		600
Shuttlelift	SL 700	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		700
Shuttlelift	SL 800	50 (customizable)	48 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		800
Shuttlelift	SL 25II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		25
Shuttlelift	ISL 60	25 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		60
Shuttlelift	DB 70	25 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70

## RUBBER TIRIED GANTRY CRANES BY MANUFACTURER

Manufacturer	Model	Standard Inside Clear Height/ Hook Height (ft)	Standard Inside Clear Width (ft)	Number of tires	Remote control capability		Driving speed (mph)	Capacity (US tons)
					Y/N	Steering mode		
Shuttlelift	SB 100	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SL 100II	28 (customizable)	26 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SL 400	37 (customizable)	35 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		400
Shuttlelift	SL 1000	55 (customizable)	55 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		1,000

## RUBBER TIRIED GANTRY CRANES BY CAPACITY

Manufacturer	Model	Standard Inside Clear Height/ Hook Height (ft)	Standard Inside Clear Width (ft)	Number of tires	Remote control capability		Driving speed (mph)	Capacity (US tons)
					Y/N	Steering mode		
Mi-Jack Travelift	MJ 20 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	20
Shuttlelift	SL 25II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		25
Mi-Jack Travelift	MJ 30 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	30
Shuttlelift	SB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	DB 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	ISL 30	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		30
Shuttlelift	SL 35II	18 (customizable)	17 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		35
Mi-Jack Travelift	MJ 40 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	40
Shuttlelift	ISL 40	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		40
Mi-Jack Travelift	MJ50C	35.5 to 45.5	n/s	4	Yes	All wheel	n/s	44.1
Mi-Jack Translift	MJ 1200R	20	30 x 15	4	Yes	DGPS	n/s	50
Mi-Jack Translift	MJ 1200R EH	23	40 to 60	8	Yes	DGPS	n/s	50
Mi-Jack Translift	MJ 1200R-DS	31	up to 70	4	Yes	All wheel	n/s	50
Mi-Jack Travelift	MJ 50 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	50
Mi-Jack Travelift	MJ 900P	n/s	20 to 40	4	Yes	90 degree transverse	n/s	50
Shuttlelift	SB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	DB 50	25 (customizable)	25 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	SL 50II	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Shuttlelift	ISL 50	20 (customizable)	20 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		50
Mi-Jack Travelift	MJ 60 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	60
Shuttlelift	ISL 60	25 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		60
Mi-Jack Travelift	MJ 65 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	65
Enerpac	Travel Gantry ETL600	20	30 x 15	4	Yes	Carrousel	3	67
Mi-Jack Travelift	MJ 70 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	70
Shuttlelift	SB 70	25 (customizable)	30 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	ISL 70	25 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	DB 70	25 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		70
Shuttlelift	SL 75II	22 (customizable)	21 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		75
Mi-Jack Travelift	MJ 85 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	85
Shuttlelift	SL 85II	25 (customizable)	24 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		85
Shuttlelift	DB 90	30 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		90
Mi-Jack Travelift	MJ 100 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	100
Shuttlelift	ISL 100	30 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SB 100	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	SL 100II	28 (customizable)	26 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		100
Shuttlelift	DB 110	30 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		110
Shuttlelift	SB 120	35 (customizable)	35 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		120



## RUBBER TIRED GANTRY CRANES BY CAPACITY

Manufacturer	Model	Standard Inside Clear Height/ Hook Height (ft)	Standard Inside Clear Width (ft)	Number of tires	Remote control capability Y/N	Steering mode	Driving speed (mph)	Capacity (US tons)
Mi-Jack Travelift	MJ150 HD	n/s	inside clear widths and hook heights are customizable	n/s	n/s	n/s	n/s	150
Shuttlelift	SB 150	40 (customizable)	40 (customizable)	4	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	SL 150II	30 (customizable)	28 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	ISL 150	35 (customizable)	40 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		150
Shuttlelift	DB 165	35 (customizable)	40 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		165
Shuttlelift	DB 200	40 (customizable)	50 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 200II	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		200
Shuttlelift	SL 250	32 (customizable)	30 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		250
Shuttlelift	SL 300	34 (customizable)	32 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		300
Shuttlelift	SL 400	37 (customizable)	35 (customizable)	8	Yes	2 wheel 90 degree or All Wheel		400
Shuttlelift	SL 500	40 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		500
Shuttlelift	SL 600	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		600
Shuttlelift	SL 700	45 (customizable)	38 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		700
Shuttlelift	SL 800	50 (customizable)	48 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		800
Shuttlelift	SL 1000	55 (customizable)	55 (customizable)	16	Yes	2 wheel 90 degree or All Wheel		1,000

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for service loads of up to 15,000  
tonnes and beyond. The company  
also offers special self-propelled  
heavy load transporters for  
industrial applications.*

## Durabilt by Durbin

2545 South 25th Ave  
Broadview, IL 60155 USA  
(636) 463-1272  
Carol Meyer, VP Sales &  
Marketing  
www.durabilitusa.com  
*Durabilt is a manufacturer of USA*

*certified load securement systems  
for cargo control and material  
handling products for industrial  
and rigging.*

## E.D. Etnyre & Co.

1333 S. Daysville Road  
Oregon, IL 61061 USA  
(800) 995-2116  
Kevin Sassaman, Product Manager  
www.etnyre.com  
*The E.D. Etnyre Company is a  
manufacturer of custom lowboy  
trailers located in Oregon, IL.  
They use the latest technologies  
such as 3D modeling, CNC burn  
tables, lasers and robotic welders  
to build custom trailers to meet  
customer needs.*

## Eager Beaver Trailers

14859 Hwy. 27  
Lake Wales, FL 33859 USA  
(800) 257-8163  
Tina Flowers, National Sales Manager  
www.EBTrailers.com  
*Eager Beaver manufactures lowbed  
and equipment hauling semitrailers  
from 6 to 100-ton capacity for the  
North/South American market.  
Eager Beaver Trailers is a registered  
brand name of General Engines Co.*

## Elk River Machine Company

828 Fourth Street  
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(763) 441-1581  
Paul Gill, Sales Director  
www.ermc.com  
*Elk River produces 2-9 axle  
Hydra-Steer trailers, jeeps and  
specialty trailers used to haul  
concrete beams and materials.*

## Enerpac

N86W12500 Westbrook Crossing  
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(262) 293-1600  
Peter Crisci, Global Business  
Development Leader  
www.enerpac.com  
*Enerpac produces hydraulic  
gantries, high pressure hydraulic  
tools and equipment and SPMTs  
designed to operate in small spaces.*

## Engineered Rigging

300 Industrial Blvd.  
Russellville, AR 72802 USA  
(844) 474-4448  
Christopher E. Cox, P.E., President  
www.engineeredrigging.com  
*Engineered Rigging produces pipe  
modular lift systems, SPMTs, power  
slide systems, torpedo car jack and  
slide systems, gantries and modular  
jacking towers.*

## EnTrans International, LLC

1145 Congress Parkway N  
Athens, TN 37303 USA  
(423) 499-1300  
Ryan Rockafellow, Vice President  
of Sales and Marketing

www.EnTransInternational.com  
*Within its oil & gas and tank  
trailer transport divisions, EnTrans  
International, maintains deep  
reserves of knowledge, people,  
resources and worldwide reach.*

## Fagioli, Inc.

21310 Highway 6  
Manvel, TX 77578, USA  
(281) 997-3434  
Edoardo Ascione, President  
www.fagioligroup.com  
*A leading provider for super heavy  
lifting, transportation and logistics  
markets.*

## Faymonville Distribution AG

Duarrefstrooss 8, 9990  
Weiswampach, Luxembourg  
352 26 90 04 155  
Arnold Luxen, Sales Manager  
www.faymonville.com  
*Faymonville manufactures trailers,  
low-loaders and modular vehicles  
for service loads from 20 to  
500 tons. Special vehicles from  
Faymonville are used to transport  
everything tall, long, wide or heavy.*

## Fontaine Heavy Haul

5398 US Highway 11  
Springville, AL 35146 USA  
(205) 467-6171  
Jeff Connor, Director of Sales  
www.fontaineheavyhaul.com  
*Produces flatbeds, drop decks,  
low beds, telescopic and specialized  
transport trailers.*

## Gem State Mfg./TrailMax

3820 Skyway Street  
Caldwell, ID 83605  
(208) 454-0717  
Mike Lemrick, President/Owner  
www.trailmax.com  
*Gem State offers seven different  
series of trailers: utility, tiltbed,  
beavertail, power ramp, hydraulic  
ramp, traveling axle and flatbeds.*

## Goldhofer Aktiengesellschaft

Donaustrasse 95  
Memmingen, 87700, Germany  
+49 8331 15-0  
Stefan Kohler, Regional Director  
of Sales  
www.goldhofer.de  
*Goldhofer offers a full and proven  
range of products, including trailers,  
semitrailers, modular heavy-duty  
vehicles, self-propelled tractors,  
transport equipment for wind  
power plants and aircraft tractors.*

## Greenfield Products

3111 West 167th Street  
Hazel Crest, IL 60429 USA  
(708) 331-3115  
Gustavo Anzola  
www.greenfieldpi.com  
*Greenfield Products produces boom  
dollies, boom launchers and other  
specialized transportation and*

*machinery handling equipment  
and vehicles.*

## HMR Supplies

35545 Hwy 69  
Forest City, IA 50436 USA  
(641) 585-3630  
Norma Hertzler, Marketing  
www.hmr-supplies.com  
*HMR Supplies designs and  
manufactures high-capacity heavy  
material transport equipment.  
The company designs and executes  
plans to handle and transport large  
items safely and cost effectively.*

## International Specialized Trailer

526 4th Avenue SW  
New London, MN 56273 USA  
(320) 354-1590  
Brad Looman, Owner  
www.isttrailers.com  
*A heavy haul and wind power  
transport specialist.*

## Kalyn/Siebert Inc.

1505 West Main Street  
Gatesville, TX 76528 USA  
(254) 865-7235  
Wesley Chandler, Regional Sales  
Manager  
www.kalynsiebert.com  
*A subsidiary of Heil Trailer  
International, produces heavy haul,  
wind energy, construction, towing  
and oilfield trailers.*

## KAMAG Transporttechnik

Liststrasse 3 Ulm 89079 Germany  
49 (0) 731/ 4098 - 0  
Roland Fischer, Area Manager, Sales  
www.kamag.com  
*As a member of the worldwide  
TII-Group, KAMAG develops  
and produces modular-trailers,  
semi-trailers, industrial lift and  
shipyard transporters and vehicles  
for special applications.*

## Kitchen's Crane & Equipment

7913 Dunnottar Ct.  
Chesterfield, VA 23838 USA  
(804) 814-4844  
Eddy Kitchen, President  
www.kitchenscrane.com  
*Kitchen's is a leading source  
for cranes, hydraulic platform  
trailers, slide systems, strand  
jacks, hydraulic gantries, rigging  
lifts and jack up systems.*

## KTSDI-Kessler

801 E Middletown Road  
North Lima, OH 44452 USA  
(330) 783-2000  
Ken Timmings, President  
www.ktsdi.com  
*KTSDI-Kessler is a parts and  
service provider for Kessler Axle,  
Mobil Elektronik, Alfred Heyd &  
Neumeister providing vehicle  
solutions for O.E.M. applications.*

## **K-Line Trailers Ltd.**

27360 - 58th Crescent  
Langley BC V4W 3W7 Canada  
(604) 856-7899  
David Knight, President  
www.klinetrailers.com  
*K-Line Trailers builds specialized dump bodies and lowbeds, and a line of heavy haul trailers that serve the over- dimensional and specialized markets including mining and hauling wind components.*

## **Lampson International**

P.O. Box 6510  
Kennewick, WA 99336 USA  
(509) 586-0411  
Bill Lampson, President & CEO  
www.lampsoncrane.com  
*Lampson International is a single source for all heavy lift and transport needs from conventional crane rentals, to heavy lift and transport engineering, to the provision and engineering of extreme capacity lift and transport equipment.*

## **Landoll Corporation**

1900 North Street  
Marysville, KS 66508 USA  
(785) 562-4739  
Jim Ladner, Sales Manager  
www.landoll.com  
*Landoll Corporation provides traveling axle and detachable trailers to a wide array of industries for easy ground loading and transportation of specialized equipment.*

## **Loadcraft Industries Ltd.**

P O Box 1429  
Brady, TX 76825 USA  
(325) 597-2911  
Terry McIver, President  
www.loadcraft.com  
*Loadcraft Industries specializes in the complete design and manufacturing of drilling and working rigs, as well as specialized transport trailers, dollies, beams and multi-axle components.*

## **Load King**

701 E Rose St.  
Elk Point, SD 57025 USA  
(605) 356-3301  
Jim Peterson, General Manager  
www.loadkingtrailers.com  
*Load King produces a range of trailers for hauling construction equipment and other heavy haul needs.*

## **Mammoet Americas**

20525 F.M. 521  
Rosharon, TX 77583  
(281) 369-2200  
Bill Ambrose, President Americas  
www.mammoet.com  
*Mammoet improves construction efficiency by providing solutions for lifting, transporting, installing and decommissioning large and heavy structures.*

## **Nelson Manufacturing**

6448 State Route 224  
Ottawa, OH 45875 USA  
(419) 523-5321  
Tony Niese, President  
www.nelsontrailers.com  
*Nelson Manufacturing designs and builds custom trailers, boom dollies, and other mobile equipment to solve unique transportation needs. One of Nelson's specialties is to provide crane transport solutions. Nelson also offers a complete line of heavy haul trailers.*

## **NICOLAS Industrie S.A.S**

A9 Avenue due Tertre  
Champs-sur-Yonne 89290 France  
33 (0) 386 53 52-00  
Roland Fischer, Area Manager  
Sales  
www.nicolas.fr  
*NICOLAS develops and produces transporters such as modular trailers, semi-trailers, industrial lift and shipyard transporters.*

## **Precision Enterprises Inc.**

3975 E Railroad Ave.  
Cocoa, FL 32926 USA  
(321) 635-2000  
Jason Shye, CFO  
www.precgroup.com  
*Sells and services Scheuerle, Nicolas, and KAMAG transporters and trailers.*

## **Ridewell Suspensions**

P.O. Box 4586  
Springfield, MO 65808 USA  
(800) 641-4122  
Justin Cravens, VP of Sales  
www.ridewellcorp.com  
*Ridewell Suspensions engineers and manufactures custom suspension systems for the specialized transport industry.*

## **Rigging Gear Sales**

1555 IL Route 26 South  
Dixon, IL 61021 USA  
(815) 288-6403  
Benjamin Forster, General Manager  
www.rgsinc.net  
*Rigging Gear Sales produces hydraulic gantries, mobile pick and carry machines and is a distributor of TII trailers and transport systems.*

## **Rogers Brothers Corp.**

100 Orchard Street  
Albion, PA 16401-1218 USA  
(814) 756-4121  
Jay Kulyk, President  
www.rogerstrailers.com  
*Rogers Trailers produces custom and specialized trailers for hauling cranes, construction equipment and construction materials.*

## **SCHEUERLE Fahrzeugfabrik GmbH**

Otto-Rettenmaier-Str. 15  
Pfedelbach 74629 Germany

49 7941 691-0  
Roland Fischer, Area Manager, Sales  
www.scheuerle.com  
*As a member of TII-Group, SCHEUERLE stands for advanced technology and product quality in heavy duty transportation. SCHEUERLE develops and produces transporters such as SPMTs, semi-trailers, industrial lift and shipyard transporters as well as vehicles for special applications.*

## **Siebert Wind**

807 Erin Street  
Monroe, LA 71201 USA  
(318) 235-4104  
www.heiltrailer.com/siebert-wind  
*Siebert Wind is a division of Kalyn Siebert Inc. and offers a complete line of trailers built specifically for the transportation of wind turbines and related equipment.*

## **Talbert Manufacturing, Inc.**

1628 W. State Road 114  
Rensselaer, IN 47978 USA  
(800) 348-5232  
Troy Geisler, VP Sales & Marketing  
www.talbertmfg.com  
*Talbert offers complete lines of heavy-haul trailers and specialized transportation equipment for commercial, industrial, military and government sectors.*

## **Temisko 1983 Inc.**

91 Ontario Street  
Notre-Dame du Nord QC J0Z 3B0  
Canada  
(819) 723-2416  
www.temisko.com  
*Temisko produces custom-designed and manufactured semi-trailers for the general market as well as specialized haulers.*

## **Thru-Way Trailers**

140 Market Drive  
Milton Ontario L9T 3H5 Canada  
(905) 875-4611  
Saifu Mawji, President  
www.thruwaytrailers.com  
*ThruWay produces multi-axle trailers, dollies, double drops and other trailers for the heavy haul industry as well as the Blademaster line.*

## **Tradelossa**

Cobalto #6 Colonia Industrial  
Durango, Durango, 34229, Mexico  
(713) 931-6552  
Carlos Carcamo, Sales Manager  
www.tradelossa.com  
*Tradelossa is a ground-breaking transport solutions specialist for large and heavy loads coming from Mexico and Central America to other countries and vice versa.*

## **Trail King Industries Inc.**

300 East Norway Avenue Mitchell,  
SD 57301 USA

(800) 843-3324  
Mike Heschke, Dir. of International Market Development  
www.trailing.com  
*Trail King manufactures trailers ranging in capacities from 12,000 to 1,000,000 pounds. Trail King designs and engineers trailers for the construction, agriculture, transportation, waste and recycling and specialized hauling markets.*

## **Trail-Eze Trailers**

P.O. Box 1188 Mitchell, SD 57301  
USA (605) 996-5571  
Shawn Murtha, Sales Manager  
www.trailleze.com  
*Trail-Eze Trailers custom design and manufacture low boy trailers, multi axle low boy trailers, rear loading HT and slide axle trailers.*

## **TransMaster Trailers**

20 Wolfbridge Road, Carlisle, PA  
17013 (717) 243-6849  
David Lutz, President  
www.mastersi.com/  
*Offers specialized trailers from wind blade and tower trailers to dollies, jeeps, step deck trailers, low boy detachable gooseneck, extendable and special design trailers.*

## **TransWorld Manufacturing**

6101 Dean Martin Drive  
Las Vegas, NV 89118 USA  
(702) 798-8920  
www.transworldmanufacturing.com  
Crystal Dieleman, President  
*TransWorld produces boom dollies, specialized crane transport systems, counterweight trailers, jeeps and tag axles.*

## **TSP (Transport Systems And Products, Inc.)**

P.O. Box 4236 Stamford, CT 06907  
USA (203) 322-3723  
Tony Sabia, President  
www.tspsalesandservice.com  
*TSP offers specialized transporters, SPMTs, platform trailers, North American highway trailers, shipyard transporters, windmill transporters and railway transporters.*

## **X-L Specialized Trailers Inc.**

P.O. Box 400 Manchester, IA 52057  
USA (563) 927-4900  
Rodney Crim, Vice President of Sales  
www.xlspecializedtrailer.com  
*Manufacturers specialized heavy haul trailers for the construction, commercial, agriculture, wind, oil and gas and custom trailer markets.*

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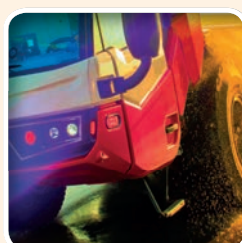
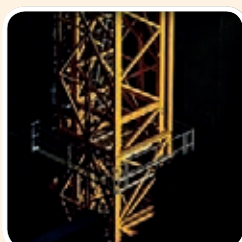
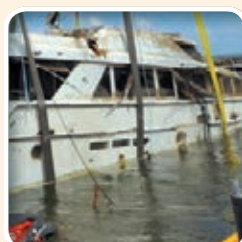
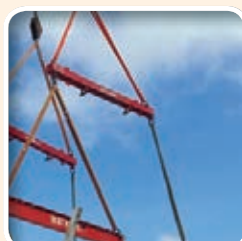
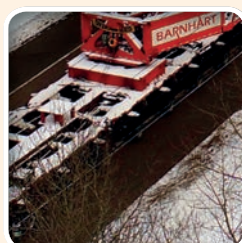
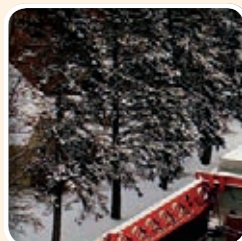
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## ASSOCIATIONS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>American National Standards Institute Inc. (ANSI)</b>	25 West 43rd Street, New York, NY 10036	USA	(212) 642-4946	www.ansi.org	Joe Bhatia President/CEO
<b>American Rental Association</b>	1900 19th Street, Moline, IL 61265	USA	(800) 334-2177	www.ararental.org	Chris Wehrman CEO
<b>American Wind Energy Association</b>	1501 M St. NW, Suite 1000 Washington, DC 20005	USA	(202) 383-2500	www.awea.org	Tom Kiernan CEO
<b>Associated Equipment Distributors</b>	600 W. 22nd Street, Suite 220, Oak Brook, IL 60523	USA	(630) 574-0650	www.aednet.org	David Gordon VP of Sales
<b>Associated General Contractors</b>	2300 Wilson Blvd, Ste 400 Arlington, VA 22201	USA	(703) 548-3118	www.agc.org	Stephen Sandher CEO
<b>Associated Wire Rope Fabricators</b>	P O Box 748 Walled Lake, MI 48390	USA	(248) 994-7753	www.awrf.org	Jeff Gilbert Chief Executive
<b>Association of Crane &amp; Rigging Professionals (ACRP)</b>	28175 Haggerty Novi, MI 48377	USA	(800) 690-3921	www.acrp.net	Jeff Gilbert Executive Director
<b>Association of Equipment Manufacturers</b>	6737 West Washington Street, Milwaukee, WI 53214	USA	(414) 272-0943	www.aem.org	Dennis Slater President
<b>BC Association for Crane Safety</b>	PO Box 48883 Bentall Vancouver, BC V7X 1A8	Canada	(604) 336-4699	www.bcacs.ca	Fraser Cocks Executive Director
<b>Canadian Construction Association</b>	1900 - 275 Slater St. Ottawa, ON K1P 5H9	Canada	(613) 236-9455	www.cca-acc.com	Michael Atkinson President
<b>Crane Certification Association of America</b>	28175 Haggerty Novi, MI 48377	USA	(800) 447-3402	www.ccaaweb.net	Jeff Gilbert Executive Director
<b>Crane Owners Association</b>	447 Georgia Street Vallejo, CA 94590	USA	(707) 552-6040	www.craneowners.org	Michael Vlaming Executive Director
<b>Crane Rental Association of Canada</b>	P O Box 26 Regina, SK S4P 2Z5	Canada	(306) 585-2722	www.crac-canada.com	Claire Bélanger-Parker Executive Administrator
<b>Florida Crane Owners' Council, Inc.</b>	170 North Goldenrod Road Orlando, FL 32807	USA	(512) 633-7413	www.flcoc.com	John Wessel Managing Director
<b>Ironworker Management Progressive Action Cooperative Trust (IMPACT)</b>	1750 New York Ave. NW, 4th Floor, Washington, DC 20006	USA	(800) 545-4921	www.impact-net.org	Kevin Hilton CEO
<b>National Commission for the Certification of Crane Operators (NCCCO)</b>	2750 Prosperity Avenue, Suite 505, Fairfax, VA 22031	USA	(703) 560-2391	www.nccco.org	Graham Brent Executive Director
<b>Specialized Carriers &amp; Riggers Association (SC&amp;RA)</b>	5870 Trinity Pkwy., Suite 200, Centreville, VA 20120	USA	(703) 698-0291	www.scranet.org	Joel Dandrea Chief Executive Officer
<b>Steel Erectors Association of America</b>	Piedmont Leaf Lofts 401 E. 4th St., #204 Winston-Salem, NC 27101	USA	(336) 294-8880	www.seaa.net	Tom Underhill Executive Director

## AUCTIONS/USED CRANE SALES

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<b>American Auctioneers LLC</b>	1033 W. Main St. Centre, AL 35960	USA	(256) 927-5263	www.american-auctioneers.com	Keith Baldwin President
<b>Bar None Auction</b>	2440 Gold River Road, Suite 200, Rancho Cordova, CA 95670	USA	(866) 372-1700	www.barnoneauction.com	Brian Wahlster General Manager, Sacramento
<b>Berryhill Auctioneers</b>	3901 Dendron Drive Flower Mound, TX 75028	USA	(972) 874-1222	www.berryhillauctioneers.com	Ray Berryhill Owner
<b>Bunch Bros Auctioneers</b>	P O Box 175 Wingo, KY 42088	USA	(270) 376-2992	www.bunchbrothers.com	Steve Bunch
<b>Crane Network</b>	400 E. Illinois Street, Suite B Lemont, IL 60439	USA	(214) 612-7626	www.cranenetwork.com	
<b>Darell Dunkle Auctioneers</b>	P O Box 959, Harrison, MI 48625	USA	(800) 433-6670	www.dunkleauctioneers.com	Darell Dunkle Owner
<b>Deanco Auction</b>	1042 Holland Avenue, Philadelphia, MS 39350	USA	(601) 656-9768	www.deancoauction.com	Donnie W. Dean Owner/President/ Auctioneer
<b>Dovebid Auctions</b>	1900 O'Farrell, Ste 325 San Mateo, CA 94403	USA	(800) 665-1042	www.go-dove.com	Thomas Burton Executive Vice President
<b>DSA Don Smock Auction Company</b>	6531 S State Road 13 Pendleton, IN 46064	USA	(765) 778-9277	www.dsaauctions.com	Donald Smock CEO



<b>First Capitol Auction Inc.</b>	50 Solano Avenue, Alleple, CA 94590	BA	(707) 552-0739	www.1stcapitolauction.com	Brian McKissack Vice President
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<b>Hilipre Auctions</b>	2862 Hilipre Road Merlo, IA 50703	BA	(319) 235-6007	www.hilipre.com	Craig Hilipre President
<b>Hunyady Auction Services</b>	1440 Cowpath Road Belfield, PA 19440	BA	(215) 361-9099	www.hunyady.com	Mike Hunyady President
<b>IRAY Auction</b>	11935 W 95 NE Bellevue, WA 98003	BA	(320) 968-7230	www.iray.com	Becky Mox Marketing Manager
<b>J J Kane Auctioneers</b>	1000 Lenola Road Maple Shade, NJ 8052	BA	(855) 462-5263	www.jjkane.com	Bob Kane Operations
<b>J M Wood Auction Company</b>	3475 Astley Road Montgomery, AL 36108	BA	(334) 264-3265	www.jmwood.com	Brenda Wood President
<b>Lloyd Meekins &amp; Sons</b>	4070 NC Highway 211 East Lumberton, NC 28358	BA	(910) 738-1389	www.lmeekins.com	
<b>LVG Auctions</b>	190 Sunpac Blvd. Brampton, ON L6T 5P4	Canada	(800) 340-7606	www.lvgauctions.com	Richard Kennedy General Manager
<b>Jeff Martin Auctioneers Inc</b>	2236 W 949 Brooklyn, MS 39425	BA	(601) 450-6200	www.jeffmartinauctioneers.com	Jeff Martin Owner
<b>Martin Auction Services LLC</b>	9515 Texas Circle Road Clinton, IL 61727	BA	(217) 935-3245	www.martinauctions.com	Rob Nord Owner
<b>Musser Bros Auctioneers</b>	3035 Rickenbacker Drive Pasco, WA 99301	BA	(509) 416-6060	www.mbusers.com	Scott Musser Vice President
<b>Myron Bowling Auctioneers</b>	3901 Kraus Lane Bithorn, WI 53014	BA	(513) 738-3311	www.myronbowling.com	Myron Bowling President
<b>Petrowsky Auctioneers</b>	275 Route 32 NorthFranklin, CT 06254	BA	(860) 642-4200	www.petrowskyauctioneers.com	Samy Petrowsky Owner
<b>Pro Team Auction Company</b>	1715 Garden Wagon Drive Ste A, Memphis, TN 37890	BA	(865) 674-7002	www.proteam.com	Alice Webb Marketing Director
<b>Purple Wave Auction</b>	825 Leese Drive Manhattan, KS 66502	BA	(785) 537-7653	www.purplewave.com	Aaron McKee Owner
<b>Ritchie Bros. Auctioneers</b>	9500 Glenlyn Parkway Burnaby, BC V3J 0G6	Canada	(778) 331-5500	www.rbauctions.com	Ravi Saligram CB
<b>Sullivan Auctioneers LLC</b>	1066 Broadway Bithorn, WI 53014	BA	(217) 847-2160	www.sullianauctioneers.com	Shawn Sullivan Owner
<b>Thompson Auctioneers</b>	3519 State Route 235 Birbom, WI 53225	BA	(937) 426-8446	www.thompsonauctioneers.com	Steve Thompson Owner
<b>Vocon Auctions</b>	4747 NE 4th Street Bismarck, ND 58003	BA	(866) 218-6266	www.vocon.com	Kelly Busby and Kevin Busby Partners
<b>West Auctions</b>	P.O. Box 278 Woodland, CA 95776	BA	(530) 661-0490	www.westauctions.com	Donna Bradshaw President
<b>Yoder &amp; Frey Auctioneers Inc</b>	1670 Commerce Bilham, WI 53528	BA	(419) 865-3990	www.yoderandfrey.com	VP Peter Clark President

## CONTROL DEVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Adeunis NA, Inc.</b>	65 Pondfield Rd, Suite 14 Bronxville, NY 10708	BA	(914) 337-2167	www.adeunis.com	Frank Escobar Director of Marketing/ Communications
<b>Attron Group InterNational</b>	58 West Senang Road Singapore, Singapore	BA	(724) 962-2630	www.attrongroup.com	Mandy Bailey Marketing Assistant
<b>Cervis, Inc.</b>	140 Townsend Road Wrentham, MA 01508	BA	(724) 741-9000	www.cervisinc.com	Kevin Bradley Sales Manager
<b>Control Chief Corp</b>	200 Wainwright Street Bradford, PA 16701	BA	(814) 362-6811	www.controlchief.com	Allison Armstrong Marketing
<b>Custom Controls Inc.</b>	#06 30468 Great Northern Ave, Abbotsford, BC V2T 6W4	Canada	(604) 854-3000	www.customcontrols.com	Jeff Cremer Sales Manager
<b>Dalec Electronic Inc.</b>	9335 Weldon Avenue Franklin Park, IL 60131	BA	(847) 671-7676	www.dalec.com	Tom Marketing Manager
<b>Eaton Wireless</b>	74-1833 Coast Meridian Rd Port Coquitlam BC V3C 6G5	Canada	(604) 944-9247	www.eatonwireless.com	Nigel Hines Product Manager
<b>Hydraulics Inc.</b>	3539 N County Road 700 W Greenfield, IL 62410	BA	(317) 890-3700	www.hydraulics.com	Tyler Hiss Marketing Manager

## CONTROL DEVICES continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>HBCr adiomatic, Inc.</b>	1017 Petersburg Road Edison, KY 41048	USA	(859) 689-6400	www.hbc-usa.com	Jeff Allan CEO
<b>Hetronic USA</b>	4300 Highway B Building A Darien, CT 07310	USA	(405) 946-3574	www.hetronic.com	Torben National Sales Manager
<b>Intercomp</b>	3839 County Road 116 Medina, MN 55340	USA	(763) 476-2531	www.intercomp.com	Chris Berg Market Specialist
<b>Merritt Controls Inc.</b>	55 Sperry Avenue Stratford, CT 0615	USA	(203) 381-0100	www.merritt.com	Doug Mackay Sales
<b>KarTech, Inc.</b>	111 Enterprise Road Balford, WV 26018	USA	(262) 646-9444 x234	www.kar-tech.com	John Karbassi Vice President, Operations
<b>Laird Technologies</b>	3481 Rider Trail South Fort Collins, CO 80504	USA	(970) 898-6000 x1186215	www.lairdtech.com	Jannette Aila Communications and Marketing Manager
<b>Loadwise International Ltd.</b>	50 Woking Way Bordon, Hampshire GU8 9GB	UK	+44 (0)1420 476500	www.loadwise.co.uk	Ken Grant General Manager
<b>Magnetek</b>	N49 W36501 Capbell Drive, Menomonee Falls, WI 53051	USA	(262) 783-3500	www.magnetek.com	Lyn Bostrom Marketing
<b>McKee Communications</b>	6381 A Rose Lane Carpinteria, CA 93013	USA	(800) 321-4138	www.mckeeusa.com	Peter McKee President
<b>Microtronics Inc.</b>	2270 Highway 54 Iola, KS 66749	USA	(620) 365-8264	www.microtronicscontrols.com	Steve Cunningham Director of Sales/ Marketing
<b>Mobile Control Systems</b>	1229 Commonwealth Marietta, GA 30064	USA	(678) 581-9613	www.mobilecontrolsystems.com	Bob Koplar President
<b>NBB Controls Inc.</b>	1572 East Park Road Richmond, VA 23228	USA	(804) 262-4846	www.nbb.com	Frank Capetta Vice President
<b>OEM Controls Inc.</b>	10 Controls Drive Salton, CT 06484	USA	(203) 929-8431	www.oemcontrols.com	Ken Fied Sales and Marketing
<b>Orlaco Products B.V. North America</b>	33 Confederate Avenue Jasper, GA 30147	USA	(706) 301-9227	www.orlaco.com	Peter De Sr. Account Manager
<b>Robinson Engineering Company</b>	1914 Silver Street Garland, TX 75042	USA	(972) 272-2001	www.robinsoneng.com	Jerry Schram Sales and Marketing Manager
<b>Trimble Lifting Solutions</b>	32 West Tabor Road Tabor, South Australia 5031	Australia	+01161882383537	www.trimblelifting.com	Ben Cirk General Manager
<b>Scanreco North America</b>	225 Tarb Trail Road Bellevue, WA 98005	USA	(419) 293-5237	www.scanreco.com	Colin Nickerson Director of Sales and Business Development
<b>Wampfler Inc.</b>	8091 Production Drive Edison, KY 41042	USA	(859) 342-8300 x219	www.wampfler.com	Rod Griffith Director of Marketing

## CRANE MANUFACTURERS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Altec, Inc.</b>	210 Inverness Center Drive Birmingham, AL 35242	USA	(205) 991-7733	www.altec.com	Lee Stalling Chairman/ CEO
<b>Amco Cranes</b>	Gian Paolo Ascari Bolingbrook, IL 60440	USA	(630) 326-6900	www.amco-cranes.com	Lee Bra
<b>American &amp; Ohio Locomotive Crane</b>	811 Bley Avenue Bucyrus, OH 45312	USA	(419) 562-6010	www.amlc.com	Craig Goodenough Sales Manager
<b>Auto Crane Company</b>	4707 N Mingo Road Tulsa, OK 74117	USA	(918) 879-8522	www.auto-cranes.com	John C. Eloni President/CEO
<b>Bailey Cranes</b>	8111 Bradley Road Milwaukee, WI 53223	USA	(414) 446-8412	www.bailey-cranes.com	Jeff Bailey President
<b>Bigge Crane and Rigging Co.</b>	10700 Bigge Ave. San Leandro, CA 94577	USA	(510) 638-8100	www.bigge.com	Joseph N. Elton Vice President
<b>Broderson Manufacturing Corp.</b>	14741 W 06th Street Lenexa, KS 66215	USA	(913) 888-0606	www.broderson.com	George Schmidt Inside Sales & Marketing Manager
<b>Cargotec Inc.</b>	12233 Wam Road 00180 Hsinchi	Finland	+358 20 777 4000	www.cargotec.com	Mika Vuori President

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<b>CCSI/Cormach Cranes</b>	61 Augusta Ct. Charles Town, WV 25414	BA	(888) 229-3184	www.csi-cranesc.com	Steve Carlson Sales & Marketing
<b>CIFA USA Inc.</b>	1515 County Road 1 Tiffin, OH 44883	BA	(419) 558-9891	www.ifausac.com	Walter Marcanti President
<b>Effer North America</b>	307 Munroe Hills Avenue Cuyahoga Falls, OH 44221	BA	(330) 916-6461	www.efferusac.com	Timothy Smith President
<b>Elliott Equipment Company</b>	4427 South Circle Evanston, IL 60127	BA	(402) 592-4500	www.elliott-equip.com	Jim Laer President
<b>Enerpac</b>	N8675 Wetbrook Crossing Menomonee Falls, WI 53051	BA	(262) 293-1684	www.enerpac.com	Peter Crisci Global Business Development Leader
<b>EZ Rig Crane</b>	1500 Palmdale Blvd. Ontario, CA 91703	BA	(800) 643-4387	www.ezrig-cranec.com	Ray Neria Sales Manager
<b>Fascan International Inc.</b>	4517 North Point Blvd. Baltimore, MD 21219	BA	(800) 632-7226	www.fascan.com	Bernie Foley President/CEO
<b>Favelle Favco</b>	26360 FM 106 Bolingbrook, TX 78550	BA	(956) 428-7488	www.favelle-favco.com	Michael K. Bo President
<b>Fischer Crane Co.</b>	585 Southmontage Road Bolingbrook, IL 60440	BA	(630) 739-6900	www.fischer-cranec.com	Lee Stra President
<b>FM Gru</b>	6330 148th Street Surrey, BC V3C 3C4	Canada	(604) 599-4200	www.fmgruit.com	
<b>Global Crane/Zoomlion</b>	14702 Jersey Shore Dr. Houston, TX 77040	BA	(832) 460-3939	www.globalcranes.com	
<b>Giuffre Bros. Cranes, Inc.</b>	6635 South 31st Street Milwaukee, WI 53221	BA	(414) 764-9200	www.giuffre.com	Todd Proctor General Manager
<b>Hoist Lifteruck Mfg.</b>	6499 15th Street Bedford Park, IL 60638	BA	(800) 367-5600	www.hoistlifteruck.com	Marty Faska President
<b>Intensus Engineering, Inc. - XCMG</b>	3691 Route 9 Cold Spring, NY 10516	BA	(845) 265-6000	www.intensus.com	Juan Carlos Salcedo
<b>Iowa Mold Tooling</b>	500 W 18th W Garner, IA 50438	BA	(641) 923-3711	www.iowamold.com	Tim Wren Business Manager
<b>J&amp;R Engineering Co., Inc.</b>	538 Oakland Avenue Mukwonago, WI 53149	BA	(262) 363-9660	www.jreng.com	Kein L. Johnson President
<b>Jekko USA</b>	4517 North Point Blvd. Baltimore, MD 21219	BA	(410) 344-5011	www.jekko.com	Rick Audill Product Manager
<b>Jost</b>	1170 Hops Grand Haven, MI 49417	BA	(800) 253-5105	www.jost-international.com	Scott Anderson Sales
<b>Jost Cranes GmbH &amp; Co. KG</b>	Herrnplatz 30 85604 Zorneding	Germany	+49 8106 9995580	www.jost-cranes.com	Alexander Jost Managing Director
<b>Kobelco Cranes North America</b>	10845 Train Court Houston, TX 77041	BA	(713) 856-5755	www.kobelcocranes.com	Jack Kendrick Vice President
<b>Koenig Cranes North America</b>	2190 A-Carpenter Street Abbotsford, BC V2T 4X2	Canada	(877) 852-2192	www.koenigcranes.com	Johannes Marnik Specialist
<b>Lampson International</b>	607 E. Olubia Dr. Kennewick, WA 99336	BA	(509) 586-0411	www.lampsoncranes.com	Warren Lampson President & CEO
<b>Liebherr Cranes Inc.</b>	4100 Chestnut Avenue Newport News, VA 23607	BA	(757) 933-2185	www.liebherr.com	Gerd Booch Area Sales Manager
<b>Liebherr Canada</b>	1015 Sutton Drive Burlington, ON L7L 5Z8	Canada	(800) 387-3922	www.liebherr.com	Tirpetersen Product Manager
<b>Liebherr Cranes Inc.</b>	4100 Chestnut Avenue Newport News, VA 23607	BA	(757) 933-2185	www.liebherr.com	Dieter Pfister President
<b>Liebherr Nenzing Crane Co.</b>	7075 Bennington Street Houston, TX 77028	BA	(713) 636-4050	www.liebherr.com	Tobias Beale General Manager
<b>Liebherr Tower Crane Division</b>	Meininger StraÙe 120 D 88400 Biberach	Germany	0049 7351 410	www.liebherr.com	Thomas Martin Fec h Marketing
<b>Lift Systems, Inc.</b>	1505 - 7th Street East Moline, IL 61244	BA	(309) 764-9842	www.lift-systems.com	Bruce Boster President
<b>Lift Systems, Inc. Canada</b>	35 Longworth Ln. Windsor, ON N4W 6	Canada	(519) 539-0213	www.lift-systems.com	David Bram President
<b>Liftech Consultants Inc.</b>	344 20th Street, Suite 360 Oakland, CA 94612	BA	(510) 832-5606	www.liftech.com	Teresa Ferguson Marketing
<b>Linden Comansa America</b>	11608 Downs Road Pineville, NC 28134	BA	(704) 588-7729	www.linden-cranes.com	Walter Vice President
<b>Link-Belt Construction Equipment</b>	2651 Palumbo Drive Lexington, KY 40509	BA	(859) 263-5200	www.link-belt.com	Melvin Porter President
<b>Maeda USA</b>	8505 South Loop East Houston, TX 77017	BA	(713) 923-9990	www.maeda-usac.com	Steve Lam Vice President
<b>Mammoet USA</b>	20525 FM 521 Rosbrooke, TX 77583	BA	(281) 369-2200	www.mammoet.com	Jacques Stooft Managing Director





CRANE MATS, PADS & CRIBBING

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>AlturnaMATS</b>	701 Esping St, Mailbox 9 Titusville, PA 16354	USA	(800) 438-9336	www.alturnaatsc.com	Jack Roser President
<b>American Mat &amp; Timber Co.</b>	6422 McGrew Houston, TX 77087	USA	(800) 671-0694	www.americanmatandtiber.com	Mike Robbins Owner
<b>Beasley Forest Products Inc.</b>	P.O. Box 788 Lebrst, GA 31539	USA	(912) 375-5174	www.beasleyforestproducts.com	Rabun Beasley Owner
<b>Better Header</b>	10 Ontario Avenue Ber Park, NY 11729	USA	(631) 242-1962	www.betterheader.com	Mark Escobedo Principal
<b>Bigfoot Construction Equipment Inc.</b>	1111 Broadway Court Woodstock, IL 60098	USA	(888) 743-7320	www.triggerpadsc.com	Jeff Steiner Owner
<b>Bridgewell Resources</b>	10200 SW Greenburg Road Tigard, OR 97223	USA	(503) 872-3404	www.raneatsc.com	Mike Walters General Manager
<b>Carolina Mat Inc.</b>	P.O. Box 339 Plumtree, NC 27962	USA	(252) 793-4045	http://www.carolinamatic.com	Ronald Brisson Owner
<b>Composite Advantage</b>	401 Kiser Street Dyersburg, TN 38049	USA	(937) 723-9031	www.compositeadvantage.com	Scott Reese President
<b>CraneWorks, Inc.</b>	7795 East Little York Road Houston, TX 77016	USA	(281) 219-7779	www.craneworks.com	Keith Adams CEO
<b>DICA</b>	104 Industrial Road Guthrie Center, IA 50115	USA	(800) 610-3422	www.dicasac.com	Kevin Koberg Sales & Marketing Manager
<b>DIXEMAT</b>	216 Spring Rd Sandy Hook, MS 39478	USA	(800) 927-2059	www.dixematic.com	Stephanie Maffei Marketing Director
<b>Fuqua Sawmill, Inc.</b>	1761 NW 4th Ave. Ocala, FL 34475	USA	(352) 629-4713	www.raneatsflorida.com	Larry Eguia Owner
<b>Industrial Matting LLC</b>	7327 SW Barnes Road 802, Portland, OR	USA	(888) 543-6287	www.industrialmatting.com	Jeremy Blin President
<b>Lifton's Inc.</b>	1037 Highway 64 New Richmond, WI 54017	USA	(866) 439-7208	www.liftonsinc.com	Bob Lifton Owner
<b>Lohrberg Lumber</b>	5662 L Road Verlo, IA 62298	USA	(618) 542-8024		Tim Lohrberg President
<b>Macroplastics</b>	2250 Highway 100 Birmingham, AL 35202	USA	(707) 437-1200	www.macroplasticsc.com	Wren Macdonald CEO/President
<b>New South Equipment Mats</b>	281 Jackson Rd, Ste 10 Madison, MS 39110	USA	(866) 922-6287	www.newsouthmatic.com	Barb Davis Marketing Director
<b>Nylacast Ltd</b>	770 Maple Lebanon, PA 17046	USA	(717) 270-5600	www.nylacast.com	Tanner Allen Sales & Marketing Director
<b>Paul Davis Inc.</b>	144 Sawtooth Road Aite, LA 70422	USA	(985) 748-7980	www.pauldavisinc.com	Zachary Davis Salesperson
<b>Prime Tech, Inc.</b>	1210 Highway Road, Suite 1200 Roswell, GA 30076	USA	(770) 594-8608	www.primetechpadding.com	Antje Price President
<b>Quality Mat Company</b>	6550 Trarroad Beaumont, TX 77713	USA	(800) 227-8159	www.qualitymat.com	Joe Penland Jr. Vice President
<b>Rhino Cribbing Company</b>	1290 Greenwood Drive Pittsburg, PA 15120	USA	(800) 974-4669	www.rhino-cribbing.com	Keith Roddy Owner
<b>Rigger Core/Rutland Plywood</b>	66 Ripley Road Rutland, VT 05701	USA	(802) 747-4000	www.rutlandply.com	Jack Barrett Owner
<b>Ritter Forest Products</b>	P.O. Box 1265 Nederland, TX 77627	USA	(800) 426-9570	www.ritterforestsc.com	Jessica Ritter-Biles Sales
<b>Sauber Manufacturing</b>	10 North Sauber Road Wig Hill, IL 60151	USA	(630) 365-6610	www.saubermanufacturing.com	Mike Blaser Marketing Manager
<b>Signature Systems Group</b>	50 East 42nd Street, 14th floor New York, NY 10017	USA	(212) 953-1116	www.signaturedecksc.com	Barbara Wang Director of Marketing
<b>South Eastern Timber Corporation</b>	P.O. Box 9289, Coral Springs, FL E 33075-9289	USA	(800) 752-3804	www.se-tsc.com	Diane Murray Vice President Sales
<b>Stab Line</b>	4255 Blain Montreal, QC H2N 2	Canada	(514) 521-8552	www.stabline.ca	Pierre-Michel Gendron Sales
<b>Sterling Lumber Company</b>	501 El 51 Street Pebenix, IL 60426	USA	(708) 388-2223	www.sterlinglumber.com	Carson Sterling Owner
<b>The Mat Rental Company</b>	15237 County Road 20 Jersey, NJ 08085	USA	(205) 646-0316	www.matrental.com	Janice Harris General Manager
<b>Turtle Plastics</b>	7400 Industrial Parkway Lorain, OH 44053	USA	(800) 756-6635	www.turtleplasticsc.com	Jennifer Naelitz Executive Assistant to the President

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## ENGINEERING SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>2DM Associates</b>	9235 Katy Freeway Suite 350, Houston, TX 77024	USA	(713) 461-3500	www.2dm.us	David Duerr, P.E. President
<b>Becht Engineering Company</b>	22 Church Street Liberty Corner, NJ 7938	USA	(908) 394-1260	www.becht.com	Charles Becht President
<b>Haag Engineering</b>	625 Industrial Blvd Sugarland, TX 774789	USA	(281) 313-9700	www.haagglobal.com	Jim Wiethorn Chairman
<b>Howard Shapiro &amp; Associates</b>	303 Merrick Road Suite 400 Lynbrook, NY 11563	USA	(516) 791-2600	www.hisassoc.com	Howard Shapiro, P.E.
<b>Landmark Engineering</b>	2489 Rice Street, Suite 204, Roseville, MN 55113	USA	(651) 482-9750	www.landmarkengineering services.com	Ronald M. Kohner President
<b>Pellow Engineering Services, Inc.</b>	12615 Briar Drive Leawood, KS 66209	USA	(913) 663-0133	www.donpellow.com	Donald Pellow President
<b>Rigging Associates</b>	2144 5th Avenue W Seattle, WA 98149	USA	(206) 817-4939		Michael Lyons Owner
<b>Ruby + Associates</b>	3044 Northwestern Highway, Farmington Hills, MI 48334	USA	(248) 865-8855	www.rubyusa.com	Tricia Huneke President/CEO
<b>Stroh Engineering</b>	102 Vanderbilt Avenue Babylon, NY 11704	USA	(631) 669-7531	www.strohengineering.com	Peter Stroh President
<b>Universal Engineering Services Inc.</b>	7013 6th Street North Oakdale, MN 55128	USA	(615) 714-0552	www.ues.net	Frank Monteiro President

## ESCORT/PILOT CAR & BUCKET TRUCK SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>All Area Escort Service Inc.</b>	P O Box 745 Eastman, GA 31023	USA	(478) 374-1981		John Upshaw Owner
<b>Barney's Pilot Car Equipment</b>	2233 NE 244th Avenue, # 4 Wood Village, OR 97060	USA	(503) 665-4444	www.barneypilotcar.com	
<b>Cheyenne's Pilot Cars Inc.</b>	P.O. Box 122 Brookeville, MD 20833	USA	(301) 774-9061	www.cheyennepilotcars.com	Jennifer Jeffries & Katherine Phipps Co-owners
<b>Comdata Network</b>	5301 Maryland Way Brentwood, TN 37027	USA	(615) 376-6822	www.comdata.com	Gladys Work Sales
<b>Diamond Plus Specialized</b>	1 William Street S Clifford, Ontario NOG 1M0	Canada	(877) 327-4567	www.diamondplusspecialized.com	Ryann Dodd Operations Manager
<b>Duncan Escort Service, LLC</b>	P. O. Box 786 Rosedale, VA 24280	USA	(276) 970-2960		R.R. Duncan Owner
<b>High, Wide &amp; Heavy Oversize Escorts LLC</b>	312 Arthur Kill Road Staten Island, NY 10308	USA	(347) 236-9995	www.highwideheavy.com	John Incontrera President
<b>Interstate Flag Car Inc.</b>	1358 Greenbag Road Morgantown, WV 26508	USA	(304) 296-8111		Herold Berthy, Jr., President
<b>Jim's Pilot Car Services</b>	3619 W Smith Ferry Road Muskogee, OK 74401	USA	(918) 682-9636	www.jimpilotcar.com	Jimmy Lee Owner
<b>Kenco Bucket Trucks, LLC</b>	P.O. Box 478 Channelview, TX 77530	USA	(281) 459-3100	www.highloads.com	Kenny Mungle Owner
<b>Landstar Carrier Group</b>	13410 Sutton Park Drive, South, Jacksonville, FL 32224-5270	USA	(800) 872-9400	www.landstar.com	Michael Cashner Vice President
<b>Linda's Truck Escorting Service, Inc.</b>	7321 Ringertown Road Export, PA 15632	USA	(724) 468-5019		Linda L. Kuhn President
<b>Morrell Oversize</b>	10752 171st Ave NW Elk River, MN 55330	USA	(763) 441-2011	morrelloversize.com	Terry Morrell Owner
<b>National Pilot Car Safety Institute</b>	2233 NE 244th Ave., Suite E-4, Wood Village OR 97060	USA	(503) 328-8520	www.npcsi.net	Steven Barnes Director
<b>New York Truck Escort &amp; Permits, Inc.</b>	792 Frankford Road West Babylon, NY 11704	USA	(631) 669-3742	www.newyorktruckescorts.com	Maureen Mandich President
<b>Nova Permits &amp; Pilot Cars</b>	2800 Ave, St-Jean-Baptist, Ste 235, Quebec City, PQ G2E 6J5	Canada	(418) 527-7775	www.novapermits.com	Louis Juneau President
<b>ODS North America</b>	7575 Trans Canada Hwy., Suite 500, St. Laurent, PQ H4T 1V6	Canada	(877) 635-7164	www.odsna.com	Nick Ruscito-Caiassy Director



<b>Pilotcarz4u LLC</b>	P O B ox 864 Wwsto n, SC 29853	SA	(803) 266-5149	www.pilotcarz4u.com	KayG reene-Sith Owner
<b>Pyramid Escort Service</b>	6321 Branderbld Memphis, TN 38134	SA	(901) 508-1806		Scott Sartin Vice President
<b>Redneck Enterprises</b>	P O B ox 734 Ignacio, CO 81137-0734	SA	(970) 884-2369		Ele W Baird Owner
<b>Route America</b>	P O B ox 1409 Frankfort, KY 40602	SA	(866) 577-6883 x222	www.routeamericac.com	Jim Simpson President
<b>Sapphire Rose Pilot Car, Inc.</b>	P O B ox 115 Converse, TX 78109	SA	(210) 661-6441	www.sapphirerosepilotcar.com	Wendie Simmons President
<b>State Line Pilot Car</b>	4052 Stoddard Road Canandaigua, NY 14424	SA	(585) 394-9364	www.statelinepilotcar.com	Fredie Albrecht Owner
<b>Statewide-Nationwide Bucket Truck Escorts</b>	1411 W 4th Street Houston, TX 77018-6211	SA	(713) 476-9101	www.buckettruckescortsc.com	Billy Orr President/COO
<b>Sunshine Flag Car Service</b>	P O B ox 262 Hershey, PA 17033	SA	(717) 534-1213		Thomas Alexander President
<b>Sweet 'P' Express - Escort Service</b>	4038 Route 20 Spencer, NY 12066	SA	(518) 527-6524		Pauline Henkeno Owner
<b>TrailBlazer Pilot Car Services</b>	P O B ox 17972 San Antonio, TX 78217	SA	(210) 822-7501	www.trailblazerpilotcar.com	Jake Patrick Owners
<b>Triton Transport Ltd.</b>	20331 Duncannon Blvd Langley, BC V3A 7N3	Canada	604-530-5124	www.tritontransport.com	Julie Burgess Communications Mgr.
<b>WCS Permits</b>	150 E Arrowhead Way San Diego, CA 91773	SA	(888) 737-6483	www.csperitsc.com	Wesley Molino President
<b>Wheeling Equipment Company</b>	4407 Delousas Street Lake Charles, LA 70615	SA	(800) 555-1212	www.wheelingequipment.com	Terry Gramm President

FALL PROTECTION

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Bairstow Lifting Products Co., Inc.</b>	1785 Esworth Industrial Dr Atlanta, GA 30318	SA	(800) 241-8990	www.bairstow.com	Robert Bairstow, Jr. President
<b>Buckingham Manufacturing Company Inc.</b>	P O B ox 1690 / 11 Trais Avenue, Binghamton, NY 13904	SA	(607) 773-2400	www.buckinghammfg.com	James Pennefeather Vice President/ Sales & Marketing
<b>DBI/SALA</b>	3833 Sala Blvd Red Wing, MN 55066	SA	(800) 328-6146	www.dbisalasafety.com	James Preacher Regional Sales Director
<b>Elk River Inc.</b>	P O B ox 1770 Cullam, AL 35056	SA	(256) 739-5959	www.elkriver.com	Paul Depel General Manager
<b>European Technology Center NA, LLC</b>	930 East Bayon Birmingham, AL 35220	SA	(248) 217-1945	www.etcn.net	Robert Warburton Managing Director
<b>Fall-Tech</b>	1306 S.A. Laurel St. Canton, CA 90221	SA	(323) 752-0066	www.falltech.com	Kelly May Marketing Manager Managing Director
<b>FrenchCreek Fall Safety</b>	100 N. 13th Street Franklin, PA 16323	SA	(877) 228-9327	www.frenchcreekproduction.com	Stefan Marcella Marketing Coordinator
<b>Guardian Fall Protection</b>	26513 79th Ave So Kent, WA 98032	SA	(800) 466-6385	www.guardianfall.com	Jasson Berrier Vice President, Sales
<b>Latchways Fall Protection</b>	Blanton Park Blackshear, TN 37022	SA	1.441.413	www.latchways.com	Duncan Matteson Sales
<b>Miller Fall Protection - Honeywell Safety Products</b>	1345 15th Street P O B ox 271, Franklin, PA 16323	SA	(800) 873-5242	www.millerfallprotection.com	David Leary Inside Sales Representative
<b>MSA North America</b>	P O B ox 427 Pittsburgh, PA 15230	SA	(724) 776-8721	www.msasafety.com	Robert Apel Product Line Manager Fall Protection
<b>RIT Safety Solutions</b>	1900 Enterprise Pkwy Ste 1700 Huntsburg, VA 24487	SA	(800) 254-2990	www.ritsafesolutions.com	John Jordan President
<b>Samsel Supply Company</b>	1285 W. Rier Road Cleveland, OH 44113	SA	(800) 892-8012	www.samselsupply.com	Jim Barberic Inside Construction Sales
<b>Sperian Protection</b>	900 Douglas Pike Spartanburg, SC 2917	SA	(800) 343-3411	www.sperianprotection.com	Billy M. Bilic Sr. Product Manager
<b>Standfast</b>	2630 West Bradley Place Biltmore, IL 60618	SA	(877) 850-8726	www.standfastusac.com	Jay Carram President
<b>Tech Safety Lines</b>	3204 Skjane Blvd Carrollton, TX 75006	SA	(214) 987-4680	www.techsafelines.com	Brent Webb COO
<b>Tractel</b>	51 Morgan Dr Norwood, MA 02062	SA	(800) 421-0246	www.tractel.com	John Basalyga Vice General Manager

FALL PROTECTION ■ ESCORT/PILOT CAR & BUCKET TRUCK SERVICES ■ FALL PROTECTION

**FALL PROTECTION** continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Tractel Inc, Div of Griphoist</b>	1615 Woodman Avenue Scarborough, ON M1R 2T3	Canada	(416) 298-8822 x247	www.tractelnorthamerica.com	Nicole Branidis Sales and Marketing
<b>Transportation Safety Apparel</b>	14B Cardinal Street Horton, SC 29926	USA	(843) 686-4046	www.tsafatp.com	Rick Norton Large Account Specialist
<b>Winsafe Corp.</b>	65 Wileys Road Drive, Unit 1, Markham ON L3R 5L9	Canada	(905) 474-9340	www.insafec.com	Rick McKinlay Sales & Marketing Manager

**FINANCIAL SERVICES**

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Alliance Funding Group Inc</b>	3745 West Campbell Avenue, Suite 200, Chicago, IL 60668	USA	(800) 978-8817	www.alliancefunding.com	Shawn D'Onofrio Vice President of Sales
<b>Altec Capital Services, LLC</b>	33 Inness Center Parkway Suite 200, Birmingham, AL 35242	USA	(888) 408-8148	www.altec-capital.com	Shana B. Sche Sales & Marketing
<b>CIT Group Inc.</b>	6501 Citicorp Building, New York, NY 10039	USA	(973) 740-5000	www.cit.com	Michael Belcastro Managing Director/ Group Head
<b>DLL Group Canada</b>	3450 Superior Court, Unit 10, Oakville, Ontario, L6L 0C4	Canada	(905) 465-4960	www.dllgroup.com	G.Peter Bran President & CEO
<b>Deutsche Leasing USA, Inc.</b>	190 S. LaSalle St., Suite 2150, Chicago, IL 60603	USA	(312) 678-4265	www.deutsche-leasing.com	Rainer Keller Head of North America Sales
<b>EverBank Commercial Finance, Inc.</b>	65 Liberty Lane East Houston, TX 77064	USA	(603) 601-0084	www.everbankcommercial.com	Randy Sullivan National Sales Manager
<b>FMI Corporation</b>	5171 Glenwood Avenue Raleigh, NC 27612	USA	(919) 785-9236	www.fmi.com	Torothy Director of Marketing
<b>GE Capital</b>	201 Main Ave. Norwalk, CT	USA	(203) 229-5717	www.gecapital.com	Ned Reynolds Director
<b>Harry Fry &amp; Associates</b>	291 Main Street West Newbury MA 01985	USA	(978) 308-1000	www.harryfry.com	Harry Fry President
<b>Heartland Equipment Finance</b>	445 West Washington Avenue Milwaukee, WI 53207	USA	(414) 747-7256	www.heartlandloans.net	Scott Blair President
<b>Industrial IIIE, Inc</b>	17314 Shepherd, Suite 315 Houston, TX 77064	USA	(281) 894-8000	www.iii-inc.com	Patrick Finn Managing Director
<b>Intek Leasing</b>	152 Eagle Rock Ave Roseland, NJ 07068	USA	(973) 403-7788	www.intekleasing.com	Paul Garfunkel Leasing Specialist
<b>Manitowoc Finance</b>	1565 Buchanan Trail East Stoughton, MA 01725	USA	(717) 597-8121	www.manitowoccranes.com	
<b>Orange Commercial Credit</b>	10121 Sunnydial Road, #300, Chicago, IL 60631	USA	(888) 266-0211	www.occ.com	Tina Cawthon Account Representative
<b>People's Capital and Leasing Corp.</b>	2135 Citygate Lane, Suite 300, Naperville, IL 60563	USA	(630) 780-1021	www.peoplecapital.com	Ben Powell
<b>Pinnacle Capital</b>	615 Commerce Street, Suite 101, Tacoma, WA 98402	USA	(253) 284-5605	www.pinnaclecapital.com	Jill Ginn Cranes Representative
<b>SG Equipment Finance USA Corp.</b>	480 Livingston Blvd, 24th Floor, Jersey City, NJ 07310	USA	(201) 839-1125	www.sg-equipment.com	Tomasz Lis Director of Industrial Sales
<b>Siemens Financial Services, Inc.</b>	301 Lindenwood Drive, Suite 215, Malvern, PA 19355	USA	(866) 249-4496	www.siemens.com/finance	Scott Morrish Account Executive
<b>Simmons Bank</b>	2050 Hill Johnson Rd. Grapevine, TX 76051	USA	(817) 916-6220	www.simmonsbank.com	Craig Caldwell SVP / Managing Director
<b>SL Financial Services</b>	251 Riverside Avenue Westport, CT 06880	USA	(203) 227-5225	www.slfinancial.com	Nils Boenick Senior Vice President of Marketing
<b>Sumitomo Mitsui Finance &amp; Leasing</b>	277 Park Avenue, Suite Suite 1500, New York, NY 10172	USA	(212) 224-5478	www.smf.com	Jeffrey M. Olson Vice President
<b>Terex Financial Services</b>	200 Niagara Road Westport, CT 06880	USA	(503) 245-3232	www.terex.com/en/ products-services/ equipment-financing/index.htm	Joseph Curtis National Product Mgr.

<b>Trinity Vendor Finance</b>	475 Sansome St. 19th Floor, San Francisco, CA 94111	USA	(800) 841-4433	www.trinityvf.com	Alan Adelson Senior Engineer
<b>Wells Fargo Equipment Finance</b>	2700 South Price Road Chandler, AZ 85286	USA	(480) 724-3499	www.wellsfargo.com/ construction	Greg Giauque AVP, Marketing Program Manager

## FREIGHT FORWARDING/LOGISTICS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>1A Intermodal</b>	1460 NW 107th Ave Miami, FL 33172	USA	(305) 629-6266	www.1aintermodal.com	Rick Gonzalez CEO
<b>3Plus Logistics Co.</b>	20250 S. Alameda St. Rancho Dominguez, CA, 90221	USA	(310) 667-5167	www.e3pl.com	John Kim Executive Vice President
<b>Access World Logistics Corporation</b>	7 Moonglade Lane Savannah, GA 31411	USA	(912) 352-4248	www.awlcorp.com	Butch Howard Sales & Marketing
<b>American Cargoservice, Inc.</b>	7886 Convoy Court San Diego, CA 92111	USA	(858) 565-4125	www.acssan.com	Ellen Laramie Vice President
<b>Basil Equipment</b>	31312 Via Colinas, Ste 109 West Lake Village, CA 91362	USA	(818) 991-9694	www.basilcranes.com	Bob Basil President
<b>Bellville Rodair International</b>	7155 Old Katy Rd., #103 Houston, TX 77024	USA	(713) 921-5544	www.bellvillerodair.com	Aubrey Waugh Branch Manager
<b>Bennett International Transport</b>	P O Box 569 McDonough, GA 30253	USA	(770) 957-1866	www.bennettig.com	David Lowry President
<b>C.H. Robinson Project Logistics Ltd</b>	102, 6715 - 8 Street N.E. Calgary, AB T2E 7H7	Canada	(403) 295-1505	www.chrprojectlogistics.com	Paul Pols President
<b>C.I. Services, Inc.</b>	P O Box 91955 Atlanta, GA 30364	USA	(678) 686-0933	www.ciservicesinc.com	Jeffrey Lantz President
<b>Central MN Logistics Inc. dba Roadrunner Transportation Services, Inc.</b>	1139 Franklin Ave Fox Rapids, MN 56379	USA	(320) 656-8848 x17	www.rrts.com	Dave Demuth President
<b>Convoy Logistics Providers Ltd.</b>	482 South Service Road East, Suite 117, Oakville, ON L6J 2X6	Canada	(416) 621-1519	www.convoylogistics.ca	Dona Asciak Fletcher C.E.O
<b>GT Worldwide Logistics</b>	306 East Main Street Carnegie, PA 15106	USA	(866) 966-4999	www.gtlogisticsllc.com	Richard S. Francis, President
<b>Landstar</b>	13410 Sutton Park Drive South Jacksonville, FL 32224	USA	(877) 287-9495	www.landstar.com	Jim Gattoni President/CEO
<b>Lattice Communications</b>	98 W. Cemetery Rd Fairfax, IA 52228	USA	888 926-7541	www.latticebiz.com	Brant Mozina Sr. Manager of Business Development
<b>Logistics Group International</b>	1426 North Post Oak Road Houston, TX 77055	USA	(713) 957-4812	www.lgiinc.com	Stephen Day President / CEO
<b>McDonough Marine Service</b>	1750 Clearview Pkwy Metairie, LA 70001-2470	USA	(504) 780-8100	www.mcdonoughmarine.com	Eric Anderson Sales Manager
<b>Morrell Oversize, Inc.</b>	10752 171st Ave. NW Elk River, MN 55330-6323	USA	(763) 441-2011	www.morrelloversize.com	Renee Morrell President
<b>NAL Worldwide / Syncreon</b>	1200 Greenbriar Drive Addison, IL 60101	USA	(630) 261-3184	http://www.nal.syncreon.com	Mary Shawl Strategic Sourcing Manager
<b>PartnerShip LLC</b>	29077 Clemens Road Westlake, OH 44145	USA	(800) 599-2902	www.partnership.com/ 04SCRA	Polly Myers Program Manager
<b>Pioneer Heavy Haul Inc.</b>	262 Silberthorn St. Welland, ON, L3B 5N4	Canada	(905) 732-9895	www.pioneerheavyhaul.com	Colton Jones Operations
<b>Q-Link Transportation Services</b>	2425 Matheson Blvd. E, 8th Floor Mississauga, ON L4W 5K4	Canada	(877) 478-9995	www.qlinktrans.com	Todd Moore Operations Manager
<b>Racing Cargo USA, Inc.</b>	22251 Mines Road Laredo, TX 78045	USA	(877) 827-7813	www.racingcargo.com	Edwardo Haros, Director Partner
<b>Red Arrow Logistics</b>	22605 SE 56th Street, Suite 270, Issaquah, WA 98029	USA	(425) 747-7914	www.redarrowlogistics.com	Liz Lasater CEO
<b>The Fogel Co.</b>	4431 California St. San Francisco, CA 94118	USA	(415) 422-0081	www.fogelco.com	Rob Fogel President
<b>Transportation Logistics Systems, Inc.</b>	2510 East 85th Street Kansas City, MO 64132	USA	(816) 931-9479	www.translogsys.com	Melody Warrren President and CEO
<b>UNI International</b>	100 Corey Avenue St. Petersburg, FL 33706	USA	(727) 360-2844	www.uniinternational.com	Joseph Schulte President



**INSURANCE/RISK MANAGEMENT**

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>A. Jenner &amp; Associates / Vista Insurance Partners of Illinois, Inc.</b>	6 Hubbard St., 4th floor Chicago, IL 60610	USA	(312) 276-2113	www.a Jenner.com	Patrick Nolan Vice President/Broker
<b>Allied Insurance Brokers</b>	4 Gateway Center, 444 Liberty Ave., Suite 400, Pittsburgh PA 15212	USA	(800) 569-9427	www.alliedinsbrokers.com	Jeff McGeary Executive Vice President, Sales
<b>Association Benefit Resources</b>	6550 South Millrock Dr., Suite 300, Salt Lake City UT 84121	USA	(801) 937-6700	www.scarbaltplan.com	David Runnells Program Director
<b>Assurance Agency, Ltd.</b>	1750 E Golf Road Schaumburg, IL 60173	USA	(847) 797-5700	www.assuranceagency.com	Lindsey Malone Marketing
<b>Baldwin &amp; Lyons, Inc.</b>	1099 N. Meridian Street Indianapolis, IN 46204	USA	(800) 644-5501	www.baldwinandlyons.com	Tony Simon Director
<b>Brennan &amp; Stuart Inc (BSI)</b>	222 Bucklin St. LaSalle, IL 61301-3457	USA	(630) 209-3144	www.brennanstuart.com	Chris Koloski Sales Executive
<b>Construction Insurance Agency Inc.</b>	11290 Balls Bluff Road Manassas, VA 20100	USA	(703) 257-7540	www.const-insc.com	George Pocock President
<b>ECBM</b>	300 Consoy Center, State Rd, Suite 405, West Consoy Center, PA 19428	USA	888 313-3226	www.ecbm.com	Chris Lanoie Vice President
<b>EPG Insurance</b>	PO Box 171199 Memphis, TN 38187	USA	(407) 788-6657	www.epginsurance.com	Brian Hix Vice President
<b>Great American Group</b>	9 Parkway North Ste. 300, Berfield, IL 60015	USA	(847) 943-2094	www.greatamericancorp.com	Connie Stearnes Marketing Manager
<b>Hays Companies</b>	One South Walker Dr., Suite 3350, Chicago, IL 60606-4639	USA	(312) 254-3722	www.hays.com	Walter Miller Senior Vice President
<b>Insurance Innovators Inc.</b>	130 S. Boston Road Glenside, PA 19038	USA	(215) 885-7300	www.iiigroup.com	Richard Arburg COO
<b>McGriff, Seibels &amp; Williams</b>	One Premier Plaza, Suite 300, 5605 Glenridge Dr., Atlanta, GA 30342	USA	(800) 476-2541	www.mcgriff.com	Fred Dawson Senior Vice President
<b>Meadowbrook Insurance Group, Inc.</b>	26255 Americus Dr. Soutfields, MI 48034	USA	(248) 204-8145	www.meadowbrookinsgrp.com	Carol Zieck Vice President
<b>National Interstate Insurance Co.</b>	3250 Interstate Drive Richfield, OH 44286	USA	(330) 659-8900	www.nationalinterstate.com	Tony Mercurio President & CEO
<b>NBIS NationsBuilders Insurance Services, Inc.</b>	2859 Paces Ferry Road, Suite 800, Atlanta, GA 30339	USA	(770) 257-1777	www.nbisc.com	Bill Tepe President
<b>Neace Lukens</b>	645 E Missouri Ave., Suite 290, Phoenix, AZ 85012	USA	(480) 308-4717	www.neacelukens.com	Judy Giv Senior Account Executive
<b>Norman Spencer Agency Inc</b>	800 East Main Street, Suite A, Lansdale, PA 19446	USA	(215) 809-2160	www.norman-spencer.com	Megan Rose Crane Program Program
<b>Security Insurance Services</b>	PO Box 510925 New Berlin, WI 53151	USA	(262) 785-9490	www.securityinsnet.com	Lori Aerbach Vice President
<b>Sentry Insurance</b>	1800 North Point Dr., Steens Point, WI 54481	USA	(715) 346-6333	www.sentry.com	Bill Erro Director of Sales/ Sales Operations
<b>South Group Insurance Services</b>	812 Broadway Street Bridgesburg, MS 39402	USA	(601) 545-1643	www.southgroup.net	Gates Goetz Agent
<b>Texans Insurance Group</b>	5050 Coeur d'Alene, Ste 500, Dallas, TX 75254	USA	(972) 991-6677	www.texansinsurance.com	Larry Kufel Marketing
<b>The Horton Group</b>	645 E Missouri Avenue, Ste 290, Phoenix, AZ 85012	USA	(480) 308-4717	www.thehortongroup.com	Bill Horton Owner
<b>USI Insurance Services, LLC</b>	201 Alhambra Circle, Coral Gables, FL 33134	USA	(305) 669-6000	www.usi.biz	Jeffrey Hayes Agent
<b>Vela Insurance Services</b>	311 South Walker Dr. Suite 3600, Chicago, IL 60606	USA	(312) 725-7691	www.vela-insc.com	David Jordan President
<b>Warlich</b>	7045 College Blvd. Orland Park, KS 66211	USA	(800) 821-7803	www.warlich.com	Rob Ziegler

**MARINE SERVICES**

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
Lake Michigan Carferry, Inc.	POB ox 708 Ludington, MI 49431	USA	(231) 843-1004	www.ssb-adgerc.com	Pat McCarthy Vice President
McDonough Marine Service	1750 Clearview Pkwy Suite 201 Metairie, LA 70001	USA	(504) 780-8100	www.mcdonoughmarine.com	Eric Anderson Sales Manager

**OEM COMPONENTS**

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
Allied Power Products	6590 SW 11th Street Beverly Hills, CA 90708	USA	(503) 626-0654	www.alliedpower.com	Matt Wood Marketing
Avon Bearing Ltd.	1500 Nagle Road Avon, MA 01401	USA	(440) 871-2500	www.avonbearings.com	Ron Saw Remanufacturing Manager
Braden Carco Gearmatic Paccar Winch Division	POB ox 547 Broken Arrow, OK 74013	USA	(918) 251-8511	www.paccarwinch.com	Tor Blom Marketing
Bremser North America, Inc.	1640 Stanabrook Drive Southfield, MI 48034	USA	(847) 289-3460	www.bremserna.com	Mike Konrad Sales/Marketing Manager
Bridgestone/ Firestone Off Road Tire	535 Marriott Drive Suite 800 Nashville, TN 37214	USA	(800) 905-2367	www.bridgestone.com	
Carol Crane Rigging and Lifting Technologies	POB ox 5605 Pasadena, TX 77508	USA	(713) 475-7181	www.carolcrane.com	Kelly Collins Marketing
Century Tire Inc.	5355 Brentwood Avenue Denver, CO 80207	USA	(303) 455-3302	www.centurytire.com	Mark Biere President
Continental Tire North America Inc.	1800 Continental Blvd. Charlotte, NC 28273	USA	(704) 583-8825	www.continentaltire.com	Cliff Armstrong, Head of Continental Trade Area Sales
Cummins Off Highway	500 Jackson Street Columbus, IN 47202	USA	(812) 377-5000	www.cummins.com	Steve Sanders Off-Highway Marketing / Communications Mgr.
Flite Line USA	12090 Mira Mesa Parkway Suite 105 Mira Mesa, CA 92025	USA	(954) 433-5617	www.flite-line.com	Joh Bjaggi President
Garrod Hydraulics	1050 Locust Point Road York, PA 17406	USA	(717) 767-6429	www.garrod.com	Brian Millerbush Sales Representative
Hendrickson	500 Park Blvd., Suite 1010 Itasca, IL 60143	USA	(630) 773-9111	www.hendrickson-intl.com	Renee Quintant Senior Director of North America Sales
Hercules SLR	520 Woodruff Road Barton, ONTARIO S8B 1B3	Canada	(902) 482-3125	www.hercules-sl.com	Chris Giannou Marketing
HydraSlide	5617 4th Line, Rockwood, Ontario, ON N0B 2K0	Canada	(519) 496-4008	www.hydraslide.com	Janine Smith Vice President
Hydraforce Hydraulics Inc.	500 Barclay Blvd. Lincolnshire, IL 60069	USA	(847) 793-2300	www.hydraforce.com	Bill Price Marketing Mgr.
ARP Industries, Inc.	1111 3rd St. SE Warley, AL 36077	USA	(715) 359-4241	www.arp-ind.com	Les Bieister Regional Sales Manager
Kaydon Corp Bearings Div.	2860 McCracken Street Muskegon, MI 49441	USA	(800) 514-3066 x378	www.kaydon.com	Brian Walters Sales and Marketing - Engineered Products
Kinematics Mfg Inc.	2221 Melinda Lane Pebble Beach, CA 95027	USA	(623) 780-8944 x121	www.kinematics.com	Bill Pope President
KTSDIKessler	801 Middletown Road North Linden, OH 44452	USA	(330) 783-2000	www.ktsdik.com	Ken Timms President
Loadwise International Ltd.	50, Woodley Way Bordon, Hampshire GU8 9B	UK	+44 (0)1420 476500	www.loadwise.co.uk	Ken Grant General Manager
MICO	1911 Lee Blvd Northampton, MA 01063	USA	(507) 625-6426	www.mico.com	Dana Reben Manager
MTU	39525 MacKenzie Dr North Miami, FL 33177	USA	(248) 560-8186	www.mtu-online.com	Philip Clark Senior Sales Manager
Palmer Johnson Power Systems	1835 Hayes Drive Sun Prairie, WI 53590	USA	(800) 341-4334	www.palmerpower.com	Brad Borckers Product Support Engineer
Parker Hannifin Corp.	5035 Parkland Blvd Cleveland, OH 44124-4141	USA	(216) 896-3000	www.parker.com	Jeff Miller Manager

OEM COMPONENTS ■ MARINE SERVICES ■ OEM COMPONENTS ■ MARINE SERVICES

## OEM COMPONENTS continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Prinoh Ltd.</b>	1001 J-A Bohnardier Street Granby, Q J2J 1B8	Canada	(819) 421-3099	www.prinoh.com	Doug Little Director of Sales
<b>RBC Bearings</b>	102 Wrenbrook Road Wrenford, CT 06478	USA	(203) 267-7001	www.rbcbearings.com	Shirley Hill Director of Marketing
<b>Rotek Incorporated</b>	1400 South Chlicott Road Aurora, IL 420 2	USA	(330) 995-7271	www.rotetek.com	Laura Ashley Market Research
<b>Simard Suspensions, Inc.</b>	1064, boulevard Mgr-Laval Baie-Saint-Paul, Quebec G3Z 2W7	Canada	(418) 435-5347	www.simard-suspensions.com	Georges Cloutier, Assistant Sales Manager
<b>Superior Tire &amp; Rubber Corporation</b>	PO Box 308, 1818 Penna Ave West Wren, PA 16365	USA	(814) 723-2370 x116	www.superiortire.com	Betsy Valey Administrator
<b>TSP (Transport Systems And Products, Inc.)</b>	PO Box 4236 Stafford, CT 06907	USA	(203) 656-1644	www.tsp-sales-and-service.com	Michel LaScola, Vice President Sales and Marketing
<b>Universal Industrial Products</b>	900 E. Hobson Ave Ste 100 Camden, CA 95008	USA	(408) 996-2958	www.uip.com	Fred Craig Sales Operations Manager
<b>Watson &amp; Chalin Manufacturing</b>	725 University Dr McKinney, TX 75070	USA	(972) 547-6020	www.watson-suspensions.com	Keith R. Bides Director of Sales/ Marketing
<b>Winches, Inc.</b>	5070 Astley Court Houston, TX 77041	USA	(877) 361-8543	www.winchesinc.com	Matt Mundis Marketing

## OPERATOR ASSIST DEVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Adeunis NA, Inc.</b>	65 Pondfield Rd, Suite 14 Bronxville, NY 10708	USA	(914) 337-2167	www.adeunis.com	Frank Escobar Director, Marketing and Communications
<b>Allied Safety Systems</b>	5224 State Rd Sanford, FL 32771	USA	(407) 321-0722	www.sigalarms.com	Lance Burney President
<b>Basil Equipment</b>	31312 W. C. Collins Ste 109, West Lake Meade, CA 91362	USA	(818) 991-9694	www.basilcranes.com	Mike A. Bruen Director of Operations
<b>Cattron Group International</b>	58 West Sbrang Spartanburg, SC 29150	USA	(724) 962-2630	www.cattron.com	Mandy Bailey Marketing Assistant
<b>Cervis, Inc</b>	140 Thorn Hill Road Wrentham, MA 01506	USA	(724) 741-9000	www.cervisinc.com	Kevin Bradley Sales Manager
<b>Control Chief Corporation</b>	200 W. Main Street Bradford, PA 16701	USA	(814) 362-6811	www.controlchief.com	Allison Abrams Marketing and Graphics Coordinator
<b>Crane Warning Systems</b>	4443 Hillside Street Lakeland, FL 33811	USA	(863) 619-5585	www.cranewarning.com	Abner Soukiala Executive Administrator
<b>Cranesmart Systems</b>	4908 97 St. NW Edmonton, AB T6E 5S1	Canada	(780) 437-2986	www.cranesmart.com	Dan R. Aboud Technical Writer
<b>Custom Crane Solutions</b>	PO Box 581 Groveton, VA 23123-0581	USA	(614) 610-4324	www.customcranesolutions.com	Brian Caldwell Customer Solutions
<b>Eartec/PortAPhone</b>	PO Box 560 Narragansett, RI 02882	USA	(401) 789-8700	www.eartec.com	Leigh Donnor Marketing
<b>HBC-radiomatic GmbH</b>	Hilber Strasse 45-53 74564 Crailsheim	Germany	+49 7951 393-0	www.hbc-radio.com	Wolfgang Brendel CEO
<b>Hetronic USA</b>	4300 Highway B Bldg. A, Industrial City IL 60131	USA	(405) 946-3574	www.hetronic.com	Torrey B. Nisire National Sales Manager
<b>Hirschmann Automation and Control (PAT)</b>	1540 Cedar Dale Cabinburg, PA 17201	USA	(717) 217-2200	www.pat.com	Gary P. Eck Director, Mfg. CS
<b>Holloway Houston Inc</b>	5833 Aronur Houston, TX 77020	USA	(713) 674-5631	www.holloway.com	Eric Uelano Director of Sales
<b>Hydro Electronic Devices (HED)</b>	2120 Constitution Avenue Hartford, CT 06107	USA	(262) 670-5155	www.hed.com	Chris Kolbe Vice President of Sales and Marketing
<b>Industrial Magnetics</b>	PO Box 80 Boyeton, VA 23012	USA	(231) 582-3100	www.indmag.com	Peter Friedrich Strategic Accounts Manager



<b>Intech Video Systems</b>	23301 Vista Grande Dr. Laguna Hills, CA, 92653	USA	(800) 468-3254	www.intecvideo.com	Donald E. Nama II President
<b>Intercomp</b>	3839 County Road 116 Minneapolis, MN 55340	USA	(763) 476-2531	www.intercompco.com	Aaron Van Heel Marketing Manager
<b>Liftex Corporation</b>	48 D Vincent Cr Warminster, PA 18974	USA	(800) 478-4651	www.liftex.com	Mark Kowalick COO
<b>Loadwise International Ltd.</b>	50, Woolmer Way Bordon, Hampshire GU35 9QF	UK	+44 (0)1420 476500	www.loadwise.co.uk	Ken Grant General Manager
<b>Loadwise, Inc</b>	18362 Gothard St Huntington Beach, CA 92648-1227	USA	(714) 841-5662	www.loadwise.com	Jim Bennett Owner
<b>Magnetek Material Handling</b>	175 Wall Street Glendale Heights, IL 60139-1985	USA	800-288-8178	www.magnetekmh.com	Mike Fedorchak, Inside Sales
<b>Magtrol Inc.</b>	70 Gardenville Pkwy Buffalo, MN 14224	USA	(716) 668-5555	www.magtrol.com	Jennifer Wilkins Marketing
<b>Markload Systems</b>	1118 N Main St Pearland, TX 77581	USA	(281) 485-8600	www.markload.com	Mike Irwin President
<b>Measurement Systems International</b>	14240 Interurban Ave So. Seattle, WA 98168	USA	(206) 433-0199	www.msiscscales.com	Tim Carroll Marketing Manager
<b>MTS Sensors</b>	3001 Sheldon Drive Cary, NC 27513	USA	(919) 677-2315	www.mts.com	Julie Malinofski, Marketing and Communications
<b>North West Crane LTD, (NWC)</b>	7015 Sparrow Drive Leduc, AB T9E 7L1	Canada	(780) 980-2227	www.norhtwestcrane.com	Don Kurjata Vice President
<b>OptiCrane Inc.</b>	916 West Broadway Vancouver, BC V5Z 1K7	Canada	(604) 813-8392	www.opticrane.com	Paul Roussel Manager
<b>Professional Service &amp; Repair Inc. (PSR Inc)</b>	P O Box 6506 Columbus, GA 31907	USA	(706) 561-8500 x26	www.psrinc.biz	Jeff Johnson Sales and Marketing
<b>Rayco-Wylie Systems</b>	2440 Dalton Avenue Quebec City, Qc G1P 3X1	Canada	(418) 266-6600 x270	www.raycowylie.com	Pierre-Olivier Deslandes Marketing Specialist
<b>SIKO Products</b>	2155 Bishop Cir. E. Dexter, MI 48130	USA	(734) 426-3476 ext 212	www.sikoproducts.com	Maurizio Masullo President
<b>Straightpoint</b>	1221 Avenida Acaso Suite E Camarillo, CA 93012	USA	(805) 246-1462	www.straightpoint.com	Jeff Miller General Manager
<b>Tractel Inc, Div of Griphoist</b>	1615 Warden Ave Toronto, ON M1R 2T3	Canada	(800) 465-4738 x241	www.tractelnorthamerica.com	Steve Gallagher Marketing Manager
<b>TWG</b>	P O Box 1130 Jenks, OK 74037-1130	USA	(918) 298-8300	www.team-twg.com	Mike Paul Marketing Manager
<b>Trimble Inc.</b>	935 Stewart Drive Sunnyvale, CA 94085	USA	(281) 664-1330	www.trimble.com/ liftingsolutions	
<b>Water Weights</b>	5139 Brook Street, Ste E, Montclair, CA 91763	USA	(909) 626-8316	www.imesinc.com	Jim Jota Manager

## PERMITTING SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>AXYS Permits Inc.</b>	467 Waterbury Court Gahanna, OH 43230	USA	(614) 471-9400	www.axyspermits.com	Valerie Daniel Sales
<b>Comdata Network</b>	5301 Maryland Way Brentwood, TN 37027	USA	(615) 376-6822	www.comdata.com	Gladys Work Sales
<b>Hartill Heavy Haul, Inc.</b>	P.O. Box 762 Arbuckle, CA 95912	USA	(530) 476-3820	www.hartillheavyhaul.com	Todd Hartill Vice President
<b>High, Wide &amp; Heavy Oversize Escorts LLC</b>	312 Arthur Kill Rd Staten Island, NY 10308	USA	(347) 236-9995	www.highwideheavy.com	John Incontrera President
<b>JJ Keller Inc.</b>	3003 Breezewood Lane Neenah, WI 54956	USA	(800) 231-5266	www.kellerpermits.com	Kaitlin Cheramy
<b>Mercury Permits</b>	2006 Highland Avenue Las Vegas, NV 89102	USA	(888) 239-7773	www.mercurypermits.net	Steve Thomas Partner
<b>Morrell Oversize</b>	10752 171st Ave NW Elk River, MN 55330	USA	(763) 441-2011	www.morrelloversize.com	Terry Morrell
<b>National Truck Services Group</b>	P.O. Box 56666 Phoenix, AZ 85079	USA	(602) 944-5999	www.gontsg.com	Kathy Herter
<b>New York Truck Escort &amp; Permits, Inc.</b>	P.O. Box 1814 West Babylon, NY 11704	USA	(631) 669-3742	www.newyorktruckescorts.com	Maureen Mandich President

## PERMITTING SERVICES continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Nova Permits &amp; Pilot Cars</b>	2800 Ave. St- Jean-Baptist, Ste 235 Quebec City, QC G1S 2E5	Canada	(418) 527-7775	www.novapermits.com	Louis Juneau President
<b>Permit America</b>	116 Collison Center Dr., Ste. B, Frankfort, KY 40601	USA	(866) 573-7648	www.permitameric.com	Mary Signerson President
<b>Route America</b>	P.O. Box 1409 Frankfort, KY 40602	USA	(866) 577-6883 x222	www.routeameric.com	Jir Signerson President
<b>Sky Guard</b>	2506 Lakeland Drive Suite 403 Wood, MS 39232	USA	(516) 492-0603	www.skyguard.com	Anthony G. Uercio
<b>State Permits</b>	7049 Mears Gate NW North Canton, OH 44720	USA	(800) 331-4805	www.statepermits.com	
<b>Trans/Mid American Inc.</b>	14655 California Street Oak, N 68154	USA	(402) 493-6156	www.transmid.com	Rick W. Wre President
<b>Transport Permits Ltd.</b>	3825 West 9th Street Worlo, IA 50702	USA	(319) 235-9033	www.transportpermits.com	Joh and Jo Schall Owners
<b>WCS Permits</b>	150 Barron Highway San Jose, CA 91773	USA	(888) 737-6483	www.wcspermits.com	Wesley M. Ollino President
<b>West Chester Permit</b>	P.O. Box 62293 Cincinnati, OH 45262	USA	(800) 734-3544	www.westchesterpermits.com	Scott Boehm Vice President, Sales

## PRODUCT SUPPORT/REPAIR

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Bode Technical Services Inc.</b>	234 Columbine Suite 200 Denver, CO 80206	USA	(855) 263-3832	www.bodetechnical.com	
<b>Boomtrux</b>	9516 EDM Martin Luther King Blvd., Suite 1 Tampa, FL 33610	USA	(813) 247-5683	www.boomtrux.com	Carlton Calfee CEO
<b>BPT Components &amp; Parts Inc</b>	P.O. Box 4100 Sudbury, ON P3A 5Y9	Canada	(705) 524-8400	www.bptcomponents.com	Tirah Wards Vice President
<b>Certified Boom Repair Service, Inc.</b>	1902 N. 38th Street Tampa, FL 33605	USA	(813) 247-1963	www.certifiedboomrepair.com	Tyler Smith VP Business Development
<b>Contractors Service Company</b>	P.O. Box 2991 Eggen, OH 97402	USA	(541) 556-0517	www.contractorservice.com	Ted Brown
<b>Doc Bailey Construction Equipment Inc</b>	9131 San Leandro St #10 Oakland, CA 94603	USA	(510) 638-6243	www.docbailey.com	Doc Bailey President/CEO
<b>Domson Engineering &amp; Inspection</b>	190 W. Inson Road Brampton, ON L6T 4W7	Canada	(905) 789-1326	www.domson.ca	Bhavis D. D. Dini
<b>F &amp; M Mafco</b>	P.O. Box 11013 Cincinnati, OH 45211-1113	USA	(513) 367-2151	www.fandm.com	Susan Stegman
<b>Flite Line USA</b>	12090 Miramar Parkway Suite 105 Miramar, FL 33025	USA	(954) 433-5617	www.flite-line.com	Joh B. Jaggi President
<b>Garrod Hydraulics Inc.</b>	1050 Locust Point Rd. York, PA 17406	USA	(717) 767-6429	www.garrod.com	Brian Blumberg Sales
<b>H&amp;E Equipment Services</b>	7500 Pecue Lane Baton Rouge, LA 70809	USA	(225) 298-5200	www.he-equipment.com	Ralf Vieten Vice President Crane/ Reman/Structural Repair
<b>Honnen Equipment</b>	5055 E. 72nd Avenue Commerce City, CO 80022	USA	(303) 287-7506	www.Honnen.com	
<b>KTSDIK essler</b>	801 Middletown Road North Lima, OH 44452	USA	(330) 783-2000	www.ktsdik.com	Ken Timms President
<b>NordLock Inc.</b>	1000 Greg Street Carnegie, PA 15106	USA	(412) 279-1149	www.nordlock.com	Jason Milburn Marketing
<b>Pro Mac Mfg. Ltd.</b>	2940 Jacob Road Duncannon, BC V1L 6W7	Canada	(250) 746-5181	www.promac.com	Sally W. Wodan
<b>Professional Service &amp; Repair Inc.</b>	P.O. Box 6506 Columbus, GA 31907	USA	(706) 561-8500	www.proservice.com	Jeff Johnson Sales
<b>Pro Cranes &amp; Services Ltd</b>	P.O. Box 12529 Jacksonville, FL 32209	USA	(904) 765-6686	www.procranes.com	Todd W. Wodan Vice President
<b>Pyramid Parts</b>	9501 Allen Drive Cleveland, OH 44125-4603	USA	(216) 642-9600	www.pyramidparts.com	Adam Wakker Product Manager
<b>R Baker &amp; Son</b>	190 Boundary Road Marlboro, NJ 07746	USA	(732) 222-3553	www.rbakerson.com	Art Sferlazza Director of Business

<b>Rotor Electric Ltd</b>	1385 Main Street North Vancouver, BC V7J 1C4	Canada	(604) 985-7024	www.rotorelevators.com	
<b>Servicios De Carga Salerno (SCS) Miami</b>	#PTX T0222, P O Box 527948, Miami, FL 33152-7948	USA	(507) 231-6866	www.salemocranes.com	Omar Salerno Gonzalez President
<b>TVH</b>	16355 S. Lone Elm Rd. Olathe, KS 66062	USA	(913) 829-1000	www.tvh.com	Eric Briese Director
<b>W. L. CraneRepair Inc.</b>	5206 N. Main St. Baytown, TX 77521	USA	(281) 839-6950	www.wlcraneSales.com	Wayne Long Owner
<b>WHECO Worldwide Services</b>	2989 Kingsgate Way Richland, WA 99354-5311	USA	(800) 937-4772	www.wheco.com	Dave Wood President

## RIGGER TRUCKS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Custom Mobile Equipment</b>	439 E High Street Baldwin City, KS 66006	USA	(785) 594-7474	www.versa-lift.com	Gary Dick President/Owner
<b>Doral Equipment</b>	427 E Stewart Street Milwaukee, WI 53207	USA	(414) 489-7000	www.doralcorp.net	Rob Keelan President
<b>Dyer Equipment Co.</b>	25975 Hwy. 14 Ault, CO 80610	USA	(970) 454-3784	www.heavyhaultrailers.net	Roy V Dyer Owner
<b>HMS Lift Inc.</b>	PO Box 749 11 Highlander St. St. George, ON NOE 1N0	Canada	(519) 448-1055	www.brutelift.com	Eric Lavigne Manager
<b>Lift Systems, Inc.</b>	1505 7th Street East Moline, IL 61244	USA	(309) 764-9842	www.lift-systems.com	Bruce Forster President
<b>Orion Forklift Trucks</b>	45 Shepherd Road Oakville, ON L6K 2G6	Canada	(905) 844-4164	www.orionlifts.com	Spencer Hawkes
<b>Rigger Lift Mfg Inc.</b>	256 Broadcast Drive Spartanburg, SC 29303	USA	(864) 541-0582	www.riggerlift.com	Dirk Rinz Sales Manager
<b>Rig Ready</b>	3229 Oak St., Suite 114 Hudsonville, MI 49426	USA	(866) 829-0344	www.rigready.com	David Balcom Member/Owner
<b>Taylor Machine Works</b>	650 N Church Avenue Louisville, MS 39339	USA	(662) 773-3421	www.taylorbigred.com	Don Woodruff Director of Sales
<b>Transamerican Equip NC Group</b>	P O Box 399 Matthews, NC 28106-0399	USA	(704) 882-3979	www.trans-american.com	Harry S. Gretz President
<b>White Blaze Equipment Inc.</b>	150 Shirley Avenue Kitchener, ON N2B 2E1	Canada	(519) 585-1320	www.whiteblazeinc.com	Scott Lorentz Owner

## RIGGING GEAR/HARDWARE & WIRE ROPE

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>AAA Rope Splicing Co.</b>	12650 Sibley, P.O. Box 2153, Riverview, MI 48192	USA	(734) 283-1765	www.aaawirerope.com	Robert Matthews President
<b>Abbott &amp; Associates</b>	P.O. Box 1257, East Greenwich, RI 02818	USA	(401) 885-1933	www.vinceabbott.com	Vince Abbott Owner
<b>Acme Rigging &amp; Supply Co., Inc.</b>	3350 North State St., Ukiah, CA 95482	USA	(707) 462-0567	www.acmerigging.com	Steve Enzler President
<b>Actek Mfg</b>	1110 Fullerton Road, City of Industry, CA 91748	USA	(626) 581-3424	www.actekmfg.com	Roger Ma General Manager
<b>ADB Hoist Rings Mfg.</b>	5740 Hunt Road, Valdosta, GA 31606	USA	(248) 388-8446	www.americandrillbushing.com	Benjie Bradshaw General Manager
<b>AJT Equipment USA Inc.</b>	P.O. Box 2272, Savannah, GA 31498	USA	(912) 964-9465	www.ajt-testing.com	Charles Lynch Manager
<b>Alabama Sling Center</b>	4101 Hoke Ave., Dolomite, AL 35061	USA	(205) 744-0230	www.alabamaslingcenter.com	Bruce Gallups Vice President and General Manager
<b>All Material Handling Inc.</b>	345 N Canal St., Suite C1, Chicago, IL 60606	USA	(877) 543-8264	www.allmaterialhandling.com	Peter Brettner President
<b>Alliance Wire Rope Inc.</b>	408 Gibraltar Drive, Mississauga, ON L5T 2P5	Canada	(905) 564-2995	www.alliancewirerope.com	Don Shortt Manager
<b>All-Lifts, Inc.</b>	27-39 Thatcher Street, Albany, NY 12207	USA	(800) 342-4188	www.all-lifts.com	Steve Dewey President and Owner
<b>All-Way Wire Rope &amp; Splicing</b>	P.O. Box 84 #4, Industrial Park Drive, Bowling Green, MO 63334	USA	(800) 920-3330	www.allwayinc.com	Wayne Morris President



RIGGING GEAR/HARDWARE & WIRE ROPE continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>ALP Industries Inc</b>	1229 Vinc oln Hwy Coatesville, P A 19320	SA	(610) 384-1300	wwwalp indc om	Saw n D er President
<b>ALPS Wire Rope Corp.</b>	2530 Production Dr, St. Charles, I L 60174	SA	(630) 893-3888	wwwalp swireropec om	Brad Benner President
<b>American Riggers Supply, Inc.</b>	1010 Kansas Ave , Kansas City, K S 66105	SA	(913) 371-1357	wwwaeric anriggersec om	Chris Hg bs ner
<b>American Rigging</b>	2380 Main St, San Diego, C A, 92 113	SA	(619) 233-5625	wwwaeric anriggingsdc om	Bruce Yoder President
<b>American Rigging &amp; Supply Co., Inc.</b>	555 Cb ctaw Dr e, Baton Rouge, LA 70805	SA	(225) 344-7144	wwwaeric riggingc om	Chris Dho a ner
<b>American Webbing &amp; Fittings</b>	4959 Bl nR oad, Wsto n-Saler, N C 27106	SA	(336) 767-9390	wwwaeric anwebbingc om	Steve Sc ho eder President
<b>American Wire Rope &amp; Sling</b>	3122 Eg le Road, B rt hlye, I N 46809	SA	(260) 478-4700	wwwaw rslinc om	FitzB ickel e President Business Deo pent
<b>Arctic Wire Rope &amp; Supply, Inc.</b>	6407 Arctic Spur Road, Anch rage, A K 99518	SA	(907) 562-0707	wwwarc ticwireropec om	KathStanfi ll Manager
<b>Ashley Sling, Inc.</b>	100 Great Southw est Pkwy Atlanta, G A 30336	SA	(404) 691-2604	wwwasleyslin gc om	Jirbuc le Sales Manager
<b>Assembly Specialty Products Inc</b>	14700 Brookpark Road, Cleveland , OH 4135	SA	(800) 211-1379	wwwassemb lyp ecialty om	Jeff Stewart Outside Sales
<b>Associated Wire Rope &amp; Rigging Corp.</b>	8125 Saran Dr, Plag d el Rey, C A 90293	SA	(310) 448-5444	wwwasso ciatedwireropec om	Bob Ley e President of D erations
<b>Atlas Machinery</b>	1090 W 180 N orthSt, Salt Lake City, U 84116	SA	(801) 322-1300	wwwatlasac hinery om	LarryDP aix Sales
<b>B.C. Wire Rope &amp; Rigging</b>	2720 Est R egal Park Dr, A nabim CA 92806	SA	(800) 669-5919	wwwbc wireropec om	Bill Clark e President
<b>Bairstow Lifting Products Co.</b>	1785 Esw orth Industrial Dr, A tlanta, G A 30318	SA	(404) 351-2600	wwwb airstowc om	Robert Bairstow, Jr. President
<b>Baydar &amp; Associates Inc.</b>	60 Wter Hill Dr, Suite 802, Hif ax NS B3N 0A9	Canada	(902) 445-2535	wwwb ayd arc a	Jennifer Hug bn Office Manager
<b>Bilco Wire Rope</b>	1285 Central Ave, Hsid e, N J 07205	SA	(908) 351-7800	wwwb ilcogroupc om	BarryLebn erg B under
<b>Bishop Lifting Products, Inc.</b>	125 McCartyDr, Bl uston, TX 77029	SA	(713) 674-2266	wwwlif tingc om	Ed Moseley Vice President Marketing
<b>Black Bear Corp.</b>	7688 Carnegie Ave , B ntana, C A 92336	SA	(909) 390-0380	wwwb lackbearusac om	Mhs G e Marketing Manager
<b>Boise Rigging Supply</b>	6750 W tory Road, Boise, I 83715	SA	(208) 342-8919	wwwb oiseriggingc om	Scott Black President
<b>Bridon American Corp.</b>	280 New Coen rce Blv , W es-Barre, P A 18706	SA	(570) 822-3349	wwwb ridonaeric anc om	JosephB udde Sales Dec tor
<b>Brown &amp; Perkins, Inc.</b>	POB ox 412, Cranbury, N J 08152	SA	(609) 655-1150	wwwb ridonaeric anc om	Bill Coffy Sales
<b>Cable Cisco</b>	7718 North ort Drie, Wst Sac raemto , CA 95691	SA	(916) 371-6781	wwwbc arpentergroupc om	Bernie Martin President
<b>Cable Moore, Inc.</b>	POB ox 4067, Bk land, C A 94614	SA	(510) 436-8000	wwwc ablem orec om	Greg Moore ner
<b>Cableco</b>	9816 Arlee Aenu e, Santa E Sp rings, CA 90670	SA	(562) 942-8076	wwwc abelcorriggingc om	Greg Bailey Sales
<b>Cableworks, Inc.</b>	58 Hg land Dr , POB ox 651, P utnam CT 06260	SA	(860) 928-0475	wwwc ableworksusac om	Joh R auh President
<b>Caldwell Lifting Solutions</b>	5055 26thA e, Rockford, I L 61109	SA	(815) 229-5667	wwwc aldwellincc om	Teresa Dtb enner Dec tor of Marketing
<b>Cargo Control USA</b>	POB ox 2806, Sanford, N C 27331	SA	(919) 775-5059	wwwc argocontrolusac om	Enise G ofdrey e President of Sales
<b>CARDL Crane Rigging &amp; Lifting Technology</b>	POB ox 5605, Pasadena, TX 77508	SA	(713) 475-7181	wwwc crlcc om	KerryCollings Marketing
<b>Carpenter Group</b>	222 Napoleon St., San Franc isco, C A 94124	SA	(415) 285-1954	wwwc arpentergroupc om	Bernie Martin
<b>Cascade Rigging Inc.</b>	9887 S&M attr Road, Clackas, B 97015	SA	(503) 722-7500	wwwc ascaderiggingincc om	Bob Custam President

<b>CECA LLC</b>	158 Bails Road, Ripley, MS 38663	BA	(662) 316-3722	www.ecaforge.com	Luke Staten CEA Representative
<b>Certex Inc</b>	1110 Lockwood St, Houston, TX 77020	BA	(713) 674-3000	www.ertexc.com	Chris Black CEO
<b>Certified Slings, Inc.</b>	PO Box 180127, Casselberry, FL 32718	BA	(407) 331-6677	www.certifiedslings.com	Chris Worswick President
<b>Certified Wire Rope &amp; Testing Inc.</b>	1106 4th St, Nisku, Alberta, T9B1J2	Canada	(780) 955-9395	www.certifiedwireropec.com	Bonnie Carter Vice President of Customer Service
<b>Chicago Hardware &amp; Fixture Co.</b>	9100 Parklane Ave, Franklin Park, IL 60131	BA	(847) 455-6609	www.hicogardware.com	Jay Riccardi National Sales Manager
<b>Cleveland City Forge</b>	46950 State Route 18 West, Winton, OH 44090	BA	(440) 647-5400	www.clevelandcityforge.com	Shelly Hird Operations Marketing Manager
<b>Coffing Hoists</b>	2020 Country Club Road, Wadesboro, NC 28170	BA	(704) 694-2156	www.offinghoists.com	Tommy St Director of Sales- Western US
<b>Columbus McKinnon Corp.</b>	205 Chocoma Point Parkway Gettysburg, NY 14068	BA	(716) 689-5400	www.cmork.com	Tommy Trust
<b>Commercial Group Lifting Products</b>	12801 Biersal Dr, Tapeville, MI 48180	BA	(734) 947-4000	www.glift.com	Gar Knight President
<b>Continental Chain</b>	7011 Girard Road, Edmonton, Alberta T6B 2C4	Canada	(780) 437-2701	www.continentalchain.com	Ian McClurg President
<b>Contractors &amp; Industrial Supply Co.</b>	PO Box 40391, Nashville, TN 37204	BA	(615) 256-8658	www.isrigging.com	Eric Schler COO
<b>Coordinated Wire Rope &amp; Rigging, Inc.</b>	1707 East Anabir St, Wilmington, CA 90744	BA	(310) 834-8535	www.coordinatedcompanies.com	Bob Kentner Operations Manager
<b>Coordinated Wire Rope of Hawaii, Inc. dba CWR Hawaii</b>	120 Mokauea St, Suite F Honolulu, HI 96819	BA	(808) 843-2020	www.wrhawaii.com	David Taues Manager
<b>Cortland</b>	10333 Richmond Ave, Suite 1000, Houston TX 77042	BA	(832) 833-8032	www.cortlandcompany.com	Lindsey Stansell
<b>Crosby Canada</b>	145 Hart Lake Road, Brampton, ON L6V 3K3	Canada	(905) 451-9261	www.crosby.ca	Colin Basinger National Sales Manager
<b>Dakota Riggers &amp; Tool Supply, Inc.</b>	704 East Benson Road, Sioux Falls, SD 57104	BA	(605) 335-0041	www.dakotariggers.com	Nick Gladue General Manager
<b>DCL Mooring &amp; Rigging</b>	4400 North Galvez Street, New Orleans, LA 70117	BA	(504) 944-3366	www.dcl-usa.com	Cody Schurig Vice President, Sales and Marketing
<b>Delta Rigging &amp; Tools</b>	11233 Sandow Creek Pkwy Suite 235, Pearland, TX 77584	BA	(504) 944-3366	www.deltarigging.com	Tom Higgins Vice President, Sales and Marketing
<b>Denver Wire Rope &amp; Supply, Inc.</b>	4100 Bina St, Denver, CO 80216	BA	(303) 377-5166	www.denverwireropec.com	Tim Gubanich CEO
<b>Desert Energy Equipment</b>	PO Box 13290, Dallas, TX 75268	BA	(432) 381-3321	www.desertenergy.com	Brett Batam President
<b>Detroit Hoist &amp; Crane Co.</b>	6650 Sterling Drive N, Sterling Heights, MI 48312	BA	(800) 521-9126	www.detroithoist.com	Charles Melder Sales Executive
<b>Discount Wire &amp; Sling, Inc.</b>	4836 North Ave, Fairfield, CA 94534	BA	(954) 772-7173	www.discountwireandsling.com	Warren Owner
<b>Diversified Lifting Systems, Inc.</b>	4702 Distribution Dr, Tapscott, TX 77360	BA	(800) 752-1214	www.diversifiedlifting.com	Billy Rowe President
<b>Dominion Steel Specialties, Inc.</b>	5301 Polk St, Building 18, Houston, TX 77023	BA	(713) 678-8141	www.dominionsteel.com	Andy Coaux General Manager
<b>Durabilt by Durbin</b>	2545 S. 25th Ave, Broadview, IL 60155	BA	(636) 463-1272	www.durabiltusac.com	Carol Meyer Vice President of Sales & Marketing
<b>E. M. Blue's Sons, Inc.</b>	PO Box 9521, Houston, TX 77261	BA	(713) 926-6007	www.emblues.com	Carl Smith President
<b>Ed's Wire Rope &amp; Rigging, Inc.</b>	11039 I St, Denver, CO 80137	BA	(402) 614-8811	www.edswireropec.com	Ed Jackson Owner
<b>Elite Sales Inc.</b>	9445 SW 4th St, Miami, FL 33165	BA	(305) 262-3105	www.elitesalesinc.com	Randy Gonzalez President
<b>Elko Wire Rope &amp; Mining Supply</b>	4280 E. 4th St, Elko, NV 89801	BA	(775) 777-3824	www.elkowireropec.com	Neely General Manager
<b>Groupe Industriel DL Inc.</b>	675 Boulevard Lionel-Boulet, Brennes, QC J3X 1P7	Canada	(450) 652-5553	www.groupeidl.ca	Natalie St-Amant Vice President of Business Development

RIGGING GEAR/HARDWARE & WIRE ROPE continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Eriez Magnetics</b>	2200 Asbury Road, Erie, PA 16506	USA	(814) 835-6000	www.eriez.com	Ben Ziemann Director of Business Development
<b>ESCO Corporation</b>	PO Box 10123, Portland, OR 97210	USA	(503) 778-6768	www.escocorp.com	Kirk Yoresen Global Product Manager
<b>F &amp; M Mafco/QC21 Lifting Products</b>	9149 Drake Road, Chrismon, MO 65030	USA	(513) 367-2151	www.qc21slings.com	Mark Feel Product Specialist
<b>F.D. Lake Company</b>	PO Box 8831 3313 Lousen Drive SE Grand Rapids, MI 49518	USA	(616) 241-5639	www.fdlake.com	Michel P. Posey General Manager
<b>Feeney Inc.</b>	2603 Lincoln Street, Akron, OH 44307	USA	(800) 888-2418	www.feeneycorp.com	Katrina Palston President
<b>First Sling Technology</b>	1125 West W. Hwy 152, Suite 113, Mustang, OK 73064	USA	(877) 453-4778	www.firstslings.com	Linda Suerns President & Owner
<b>Franklin Offshore Americas Inc</b>	1325 South Creek Dr Suite 300, Houston, TX 77084	USA	(281) 578-3828	www.franklinco.com	Marilyn M. Unoz Assistant Sales Manager
<b>French Creek Production</b>	626 13th St, Franklin, PA 16323	USA	(814) 437-1808	www.frenchcreekproduction.com	Jason W. Le President
<b>Fresno Wire Rope &amp; Rigging</b>	2360 S. East Ave. Fresno, CA 93721	USA	(559) 268-8885	www.fresnowireropec.com	Brian Ward Manager
<b>Gosan USA</b>	1926 Spearing St. Jacksonville, FL 32201	USA	(904) 350-9191	www.gosanusa.com	Rocio Santin President
<b>Gunnebo Johnson Corp.</b>	1240 N. Harvard Tulsa, OK 74115	USA	(918) 832-8933	www.gunnebojohnson.com	Kris Cleveland Senior Vice President
<b>Hanes Supply Inc.</b>	55 James E. Casey Dr., Buffalo, NY 14205	USA	(716) 826-2636	www.hanessupply.com	Johanna Kane Director of Marketing
<b>Hercules SLR, Inc.</b>	520 West 11th Road, Bartonville, IL 61813	Canada	(902) 482-3125	www.herculeslr.com	Chris Giannou President
<b>Hercules Wire Rope &amp; Sling</b>	PO Box 1769, Tulsa, OK 74163	USA	(985) 876-5511	www.herculeswireropec.com	James LeBlanc Manager
<b>Hessville Cable &amp; Sling</b>	1601 Cline Ave., Gary, IN 46406	USA	(800) 779-8466	www.hessvillecable.com	Ken Randall Owner
<b>Holland RFID, Inc</b>	1340 Burlington, North Kansas City, MO 64116	USA	(816) 268-5749	www.holland1916.com	Sanders Roth Director
<b>Holloway Wire Rope</b>	14620 Pine St., Tulsa, OK 74116	USA	(918) 582-1807	www.hollowaywireropec.com	Curt Tuggie Owner
<b>Horizon Cable Service, Inc.</b>	45 North Cooley Dr., Oklahoma City, OK 73127	USA	(405) 789-7125	www.horizoncableinc.com	Bruce Miller Owner
<b>HWP Rigging</b>	1017 10th Street, Suite 1000 C St. Louis, MO 63101	USA	(314) 436-9019	www.hwpripping.com	Joseph Cummings
<b>Ideal Wire Rope</b>	13101 S. Alameda St., Compton, CA 90222	USA	(310) 604-1853	www.idealwireropec.com	Bill Adams Technical Sales
<b>Indusco Wire Rope &amp; Supplies</b>	1200 Northburg St., Baltimore, MD 21230	USA	(800) 727-0665	www.induscowire.com	Gale P. Rotko Vice - General Manager
<b>Industrial Rigging &amp; Supply</b>	1-25 McLaren Ave., Cambridge, ON N1R 8K9	Canada	(519) 624-9697	www.industrialrigging.ca	Greg Kockrow Plant Manager
<b>Industrial Splicing &amp; Sling Co. LLC</b>	1842 North 109th St. E., Tulsa, OK 74116	USA	(918) 835-4452	www.industrialsplicing.com	Mike Parham Sales Manager
<b>Industries Lam-E Inc.</b>	1050 Boul. Carleton Place, Ottawa, ON K1N 0A3	Canada	(416) 652-9759	www.lam-e.com	Martin Auclair
<b>Intercon Enterprises</b>	1125 Franklin Ave., Blaine, MN 55423	USA	(800) 665-6655	www.intercononline.com	A.J. Shank Vice President of Sales
<b>J.C. Renfroe &amp; Sons</b>	1926 Spearing St., Jacksonville, FL 32201	USA	(904) 356-4181	www.jcrenfroe.com	Joe Pless Marketing Manager
<b>J. Henry Holland</b>	5931 Thornton Ave., Virginia Beach, VA 23455	USA	(757) 460-3300	www.jhenryholland.com	Larry Lusk Vice - General Manager
<b>Jergens, Inc.</b>	15700 S. Waterloo Road, Cleveland, OH 44110	USA	(216) 486-5540	www.jergensinc.com	Bob Kucinic
<b>John A. Batchelor Company, Inc.</b>	5922 Triumph St., Commerce, CA 90040	USA	(323) 262-4125	www.jabatchelorinc.com	John A. Batchelor, Jr. Owner
<b>John Sakash Co., Inc.</b>	800 Walnut St., Elyria, OH 44026	USA	(630) 833-3940	www.jhsakash.com	Bill Sakash President
<b>Jordan Wire Rope</b>	2400 West Ossa, TX 79764	USA	(432) 366-6040		Andy Smith



<b>Jtagz</b>	P.O. Box 1084, Yeppoon, QLD 4703	Australia	+61 (1) 49302806	www.jtagz.com	Lauren Keen
<b>Kennedy Wire Rope &amp; Sling</b>	4202 Dividend Drive, San Antonio, TX 78219	USA	(210) 527-0555	www.kwrs.com	Frank Garcia Branch Manager
<b>Kentuckiana Wire Rope &amp; Sling Co.</b>	3335 Industrial Parkway, Jeffersonville, IN 47130	USA	(812) 282-3667	www.kwrinc.com	John Fireovid Operations Manager
<b>Knight Equipment Co., Inc.</b>	P.O. Box 93, 717 N. 15th St., Bowling Green, MO 63334	USA	(573) 324-3212	www.knighteq.com	Ray Knight Owner
<b>Kulkoni Inc.</b>	P.O. Box 10747, 502 Garden Oaks, Houston, TX 77206	USA	(713) 691-1234	www.kulkoni.com	Michael Rothermund Vice President
<b>KWS</b>	P.O. Box 470487, Tulsa, OK 74147	USA	(800) 872-9313	www.kws.com	Elizabeth Roberts
<b>Laclede Chain Manufacturing Co.</b>	1549 Fenpark Drive, Fenton, MO 63026	USA	(636) 680-2320	www.lacledechain.com	Greg Luerkens
<b>Lamco Slings &amp; Rigging Inc.</b>	4960 41st Street Court, Moline, IL 61265	USA	(309) 764-7400	www.lamcoinc.com	William Lambrecht Owner
<b>Landmann Wire Rope Products Inc.</b>	6500 Goodyear Road, Benicia, CA 94510	USA	(707) 748-1700	www.landmannwire.com	Rick Colvin President
<b>Lift-All Company, Inc.</b>	P.O. Box 27, Landisville, PA 17538	USA	(717) 898-6615	www.lift-all.com	Jeff Kauffman
<b>Liftex Corporation</b>	48 Vincent Circle Unit D, Warminster, PA 18974	USA	(713) 863-0900	www.liftex.com	Mark Kowalick
<b>Lifting &amp; Rigging Specialty Sales, Inc.</b>	2100 West Drive, Greensburg, PA 15601	USA	(724) 552-0083	www.thechainman.com	Harry Coulter Owner
<b>Lifting Gear Hire Corp</b>	9925 S. Industrial Drive, Bridgeview, IL 60455	USA	(708) 598-4727	www.lgh-usa.com	Patrick Clark
<b>Lift-It Manufacturing Company, Inc.</b>	1603 W. 2nd St., Pomona, CA 91766	USA	(909) 469-2252	www.lift-it.com	Mike Gelskey CEO
<b>LiftPRO International, Inc.</b>	5959 Seville Road, Duluth, MN 55811	USA	(218) 729-9211	www.liftpro.com	Fred Ambli Owner
<b>Linton Rigging Gear Supplies, LLC</b>	6819 Hwy 311, Sellersburg, IN 47172	USA	(812) 246-3515	www.lrgsupplies.com	Ray Linton Owner
<b>Lone Star Rigging</b>	4175 W. Cardinal Drive, Beaumont, TX 77705	USA	(409) 842-2263	www.lonestarrigging.com	Chris Richardson Owner
<b>LUBE-A-BOOM</b>	8151 River Bay Drive East, Indianapolis, IN 46240	USA	(317) 501-1104	www.lubeaboom.com	Jo Roberts VP of Operations
<b>Magna Lifting Products, Inc.</b>	P.O. Box 2290, Blaine, WA 98231	USA	(360) 392-0432	www.magnalifting.com	Philip Gardner President
<b>Manchester Sling Company</b>	5600 Surrey Square, Houston, TX 77017	USA	(800) 392-5510	www.manchestersling.com	Matt Barlow Sales Manager
<b>Marcal Rope &amp; Rigging</b>	P.O. Box 477, 1862 E. Broadway, Alton, IL 62002	USA	(618) 462-0172	www.marcalrigging	Tom Miller President
<b>Marine &amp; Industrial Supply Co.</b>	150 Virginia St., Mobile, AL 36652	USA	(251) 438-4617	www.marineandindustrial.com	Leroy Benton, III President
<b>Marine Rigging, Inc.</b>	552 Beauregard St., Mobile, AL 36603	USA	(251) 432-1212	www.marinerigging.com	Kinley Bell President
<b>Mazzella Lifting Technologies</b>	21000 Aerospace Pkwy, Cleveland, OH 44142	USA	(440) 239-7000	www.mazzellalifting.com	Bill Franz
<b>Memphis Chain &amp; Cable Services LLC</b>	581 Pear Ave., Memphis, TN 38107	USA	(901) 524-1100		Steve McAlpin Owner
<b>Metro Wire Rope Corporation</b>	553 Lehigh Ave., Union, NJ 07083	USA	(908) 964-3690	www.metrowirerope.com	Jack Gibbons President
<b>Miami Cordage/Florida Wire &amp; Rigging Works</b>	2475 Northwest 38th St., Miami, FL 33142	USA	(305) 636-3000	www.miamicordage.com	Fran Hoffman Marketing Director
<b>Mid America Industries</b>	7701 St. Clair Ave., East St. Louis, IL 62203	USA	(618) 398-5221		Greg Brown Manager
<b>Midco Sling &amp; Cable Co.</b>	9101 West John Carpenter Fwy, Dallas, TX 75247	USA	(214) 688-0444	www.midcosling.com	Doug Dry Owner
<b>Midwest Rigging Supply</b>	2900 Airpark Drive Owensboro, KY 42301	USA	(270) 663-1331	www.mwrigging.com	
<b>Mile High Rigging, Inc.</b>	6400 C. Stapleton Drive S., Denver, CO 80216	USA	(303) 322-3277	www.milehighrigging.com	Steve Cook Owner
<b>Mill Valley Splicing, Inc.</b>	P.O. Box 615, Belchertown, MA 01007	USA	(413) 323-6307	www.millvalleysplicing.com	James Boyko President

## RIGGING GEAR/HARDWARE & WIRE ROPE continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Miller Products</b>	100A Sturbridge Road, Carlton, MA 01507	USA	(508) 248-3941	www.millerproducts.net	Paul Jankoic
<b>Millfield Enterprises Mfg. Ltd/ Wirelock</b>	16 Salley Road Newburn Ind. Estate, Newcastle-Upon-Tyne, NE5 9RT	UK	+44 191 2648541	www.wirelock-group.co.uk	Joh Didd Technical Support
<b>Modulift UK Ltd</b>	11 Newfelds Business Park, 11 Stinsford Road, Poole, Dorset BH7 0NF	UK	+44 1202 621511	www.modulift.com	Sarah Spey Managing Director
<b>Moore Sales Inc.</b>	2539 Bata Dr, Louisville, KY 40299	USA	(502) 491-6868	www.moore-sales.com	Steve Moore Owner
<b>Muncy Industries</b>	PO Box 205, Muncy, PA 17756	USA	(570) 649-5188	www.muncyindustries.com	Bilja Etter
<b>Murdock Webbing Company, Inc.</b>	27 Broadway St, Central Falls, RI 02863	USA	(800) 375-2052	www.murdockwebbing.com	Ray Clarke Vice President of Sales
<b>Napco &amp; Associates, Inc.</b>	PO Box 826, Wadena, MN 55987	USA	(507) 452-5424		Steve Napieralski Owner
<b>National Industrial Supply Co.</b>	1201 Rockster Road, Troy, MI 48063	USA	(248) 588-1828	www.niscbin.com	Mary Barrett Rigging Equipment Inspection Expert
<b>Nelson Wire Rope Corp.</b>	3051 Penn Avenue, Baltimore, PA 19440	USA	(215) 721-9333	www.nelsonwirerope.com	Richard Nelson President
<b>New England Crane, Inc.</b>	2 Cedar St, Lewiston, ME 04240	USA	(888) 450-0477	www.newenglandcrane.com	Scott Harding Vice President
<b>New Haven Moving Equipment Co.</b>	13571 Wagon Wheel St, San Bernardino, CA 91340	USA	(213) 749-8181	www.newhaven-usa.com	Larry Leine Managing Principal
<b>Newco Manufacturing</b>	13531 Wildcatte St, Kansas City, MO 64145	USA	(816) 942-2860	www.newcofg.com	Erik Rjes General Manager
<b>Newell Davis Co. Inc.</b>	2962 N. Kerr Ave, Wilmington, NC 28405	USA	(910) 762-3500	www.newelldavis.com	Teresa McGee President & CEO
<b>Norex Manufacturing Co. Ltd.</b>	PO Box 2951, Suva, VU 98295	USA	(604) 888-2100		Norbert Scholtko President
<b>Northern Metallic Sales (FS) Ltd</b>	10407 Alaska Road, Fort St. John, BC V1J 1B1	Canada	(250) 785-6655	www.northernmetallic.com	Bruce Mitchell General Manager
<b>Oceanside Equipment Ltd</b>	30 Akerly Blvd, Barton, NT S3B 1N1	Canada	(902) 468-4844		Greg Maloney President
<b>Olsen Chain &amp; Cable, Inc.</b>	PO Box 970, Cokato, MN 55321	USA	(320) 286-2187	www.olsenchain.com	Debra Capron Vice President
<b>Omaha Slings, Inc.</b>	4406 South 89th St, Omaha, NE 68127	USA	(402) 331-0911	www.omahaslingsw.com	Gerald Papst Owner
<b>Pacific Cargo Control, Inc.</b>	18200 SW Metro Ave, Tualatin, OR 97062	USA	(800) 821-8431	www.pacificcargoc.com	Ken Webb Corporate Sales
<b>Pacific Industrial Supply</b>	1231 S Decatur St, Seattle, WA 98108	USA	(206) 682-2100	www.pacificindustrial.com	Lee Faizer Owner
<b>Pacific West Wire Rope</b>	6417 Bandini Blvd, City of Commerce, CA 90040	USA	(323) 724-7724	www.pacificwestwirerope.com	Bleke Reinhardt CEO
<b>Pacific Gulf Wire Rope, Inc.</b>	1504 Engineers Road, Belle Glade, LA 70037	USA	(504) 341-0066	www.pacificgulfwirerope.com	Keith P. Laisance President & Owner
<b>Paducah Rigging, Inc.</b>	4150 Cairo Road, Paducah, KY 42001	USA	(270) 443-3863	www.paducahrigging.com	Alex Edwards President
<b>Page Wire Rope &amp; Slings, Inc.</b>	101 Gallier St, Lafayette, LA 70506	USA	(337) 234-0353	www.pagewirerope.com	Dan Page President
<b>Peerless Industrial Group</b>	PO Box 5349, 1416 Sanborn St, Wadena, MN 55987	USA	(800) 533-8056	www.peerlesschain.com	Christy Kutchn
<b>Pewag Chain</b>	600 W. Crossroads Pkwy Bolingbrook, IL 60440	USA	(630) 226-6020	www.pewagchain.com	Mike Henbacher President
<b>Pfeifer Wire Rope</b>	600 Industry Drive, Benton, MO 63661	USA	(757) 825-2544	www.pfeiferwire.com	Michael P. Els Key Account Manager
<b>Phoenix Wire Rope &amp; Rigging</b>	700 Cedar Bay Road, Jacksonville, FL 32218	USA	(904) 367-1842	www.phoenixwirerope.com	Mark Thomas President
<b>Precision Installations &amp; Services, Inc.</b>	30660 8 Mile Road, Birmingham, MI 48336	USA	(248) 478-6353	www.precisionriggers.com	Thomas Earle Owner
<b>Premier Wire Rope</b>	5048 Timber Creek Dr, Houston, TX 77017	USA	(713) 979-5300	www.premierwirerope.com	Steve Brewer Vice President of Sales & Marketing

<b>Python America/ASC</b>	1406 W75th St, East Hazel Crest, IL 60429	BA	(708) 647-4900	www.wascindustriesc.com	Tony Estuca Vice President
<b>Rasmussen Equipment Co.</b>	8727 5th Avenue S, Seattle, WA 98108	BA	(206) 762-3700	www.rasmussenequipment.com	Dee Duffly Rigging Manager/ Outside Sales
<b>Redaelli Wire Ropes</b>	Via A. Volta 16, Cologno Monzese, Milano 20093	Italy	(864) 414-9348	www.redaelli.com	Paolo Venturini Area Sales Manager
<b>Reel-O-Matic, Inc</b>	6408 S. Eastern Ave., Industrial City, CA 93149	BA	(405) 672-0000	www.reelomatic.com	Dan Moreau
<b>Ribbon Webbing Corp.</b>	4711 Madison St., Chicago, IL 60651	BA	(773) 287-1221	www.ribbonwebbing.com	Chiel Perkins Sales
<b>Richerson and Associates</b>	PO Box 8540, Mandeville, LA 70433	BA	(985) 867-1415	www.richersonrep.com	Gar Richerson Owner
<b>Rigging &amp; Tools, Inc.</b>	2031 Lee Ave., Bismarck, ND 58504	BA	(701) 224-1122	www.riggingandtools.com	Brad Ben Owner
<b>Rockford Rigging, Inc.</b>	5401 Main St., Roscoe, IL 61073	BA	(815) 877-0007	www.rockfordrigging.com	John Malcotton President
<b>Rocky Mountain Wire Rope &amp; Rigging</b>	2421 S. 2570 West, Salt Lake City, UT 84119	BA	(801) 972-4972	www.rmwr.com	Rob Sutphin General Manager
<b>Roughrider Rigging, Ltd.</b>	118 Fifth Avenue Crescent, Saskatoon, SK S7K 8B8	Canada	(306) 651-1834	www.saturnind.com	Gerry Adger Owner
<b>Rouster Wire Rope &amp; Rigging</b>	102 Ridge St., Mabscott, VA 25871	BA	(304) 252-6031	www.rousterwr.com	Chuck Farner
<b>RUD</b>	PO Box 367, Lawton, IA 52233	BA	(319) 294-0001	www.rud.com	Katie Cason
<b>Safe 'N Secure USA, LP</b>	2673 Feewood Dr., Dallas, TX 75220	BA	(214) 358-4565	www.safeandsecureusa.com	Ken Webb Sales & Marketing
<b>Safety Clamps, Inc.</b>	233 Santa Barbara Ave., Jacksonville, FL 32254	BA	(800) 456-2809	www.safetyclamps.com	Scott Griffin Owner
<b>Safety Sling Company</b>	909 Elton Street, Pittsburgh, PA 15233	BA	(412) 231-6684	www.safetyslings.com	Tomalkowski Vice President
<b>Sam Winer Motors Inc</b>	3417 Waterloo Road, Akron, OH 44312	BA	(330) 628-4881	www.samwinermotors.com	Sid Zetter Finance & Executive
<b>Samsel Supply Co.</b>	1285 Oriole Road, Cleveland, OH 44113	BA	(800) 892-8012	www.samselsupply.com	Kathy Petrick President
<b>Samson Rope Technologies</b>	2090 Thornton Street, Bridgewater, NJ 08828	BA	(360) 384-4669	www.samsonrope.com	Michelle Jarvis Marketing Strategy Manager-Industrial
<b>Saturn Industries Ltd.</b>	37 St. Anne Street, Manitoba R2R 1V9	Canada	(204) 633-1529	www.saturnind.com	John Lang
<b>Sea-Fit Inc</b>	4745 Rier Road, Jefferson, LA 70121	BA	(504) 736-9477	www.sea-fit.com	Tyus Smith Marketing Manager
<b>Sea-Land Distributors, LLC</b>	4745 Rier Road, Jefferson, LA 70121	BA	(504) 736-9477	www.sealanddistributors.com	Michael Hill Owner & President
<b>SG Consulting</b>	3709 Clearwater Lane, Brookhaven, PA 19015	BA	(610) 876-3445	www.sg-consultants.com	Steen Gurdos President
<b>Sharrow Lifting Products</b>	301 Country Road E West, New Brighton, MN 55112	BA	(651) 489-1341	www.csarrow.com	Bob Downs President
<b>Sheave Source</b>	PO Box 100368, 4264 Deerwood Industrial Dr., Birmingham, AL 35210	BA	(205) 956-7005	www.sheavesource.com	Pat Cowart Owner
<b>Sheaves, Inc.</b>	195 Leonard Dr., Groton, CT 06340	BA	(866) 344-6774	www.sheaves.com	Stewart Owner
<b>Silver State Wire Rope &amp; Rigging</b>	8740 S. Jones Blvd., Las Vegas, NV 89139	BA	(702) 597-2010	www.sswr.com	Pete Rogers President
<b>Sling Tech</b>	124 Brock St., Barrie, ON L4N 2M2	Canada	(705) 719-4899	www.slingtech.com	Mandy Rijk Sales & Marketing Manager
<b>Sling-Choker Manufacturing Ltd.</b>	605 Rennie Street, Winnipeg, MB R2L 8P8	Canada	(905) 545-5025	www.slingchoker.com	John Walsh Export Manager
<b>Slingmax Rigging Products</b>	PO Box 2423, Aston, PA 19014	BA	(610) 485-8500	www.slingmax.com	Jeff Susam President
<b>Solutio LLC</b>	14819 Sugar Valley Suite 301-325, Sugar Land, TX 77478	BA	(281) 773-5001		Jay Zarba
<b>Source Atlantic Hydraulics, Rigging and Rubber</b>	PO Box 967, 331 Colsey Dr., New Brunswick NL 4B	Canada	(506) 648-2620	www.sourceatlantic.ca	Peter Watson



## RIGGING GEAR/HARDWARE & WIRE ROPE continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Southeast Rigging, Inc.</b>	1645 Jessie St, Jacksonville, E 3 2206	USA	(904) 355-3423	www.southeastrigging.com	Ben Giannattasio President
<b>Southern Weaving Co.</b>	P.O. Box 487, Greenville, SC 29602	USA	(864) 240-9325	www.southernweaving.com	Susan Crow-Granger
<b>Southern Wire Corp.</b>	8045 Metro Road, De B ranch, MS 38654	USA	(662) 893-4644	www.southernwire.com	Andrew Hill Vice President and General Manager
<b>Southwest Ocean Services</b>	5721 Breton Dr., Houston, TX 77020	USA	(713) 671-9101	www.swosnet.com	Conrad Reynolds Sales Manager
<b>SpanSet, Inc.</b>	3125 Industrial Drive, Sanford, NC 27332	USA	(501) 658-9665	www.spanset-usa.com	Todd Sharp
<b>Suncor Stainless</b>	70 Armstrong Road, Plymouth, MA 02360	USA	(508) 732-9191	www.suncorstainless.com	Log Young
<b>Superlift Wire Ropes USA, LLC</b>	836 Registry Terrace, Kennesaw, GA 30152	USA	(678) 575-5182		Terry Miller
<b>Tandemloc, Inc.</b>	824 W. 101, Beloek, NC 28532	USA	(800) 258-7324	www.tandemloc.com	John Martino President
<b>Tennessee Sling Center</b>	3501 Clivo Ave., Cattanooga, TN 37407	USA	(423) 634-9005	www.tennesseeslingcenter.com	Terry Roderick General Manager
<b>TTEUFELBERGER Holding AG</b>	Wegelerstrasse 50, 4600 Weeze	Austria	+43 7242 615-0	www.teufelberg.com	Stefan Pucher Product Manager
<b>The Crosby Group</b>	P.O. Box 3128, Tulsa, OK 74101	USA	(918) 834-4611	www.the-crosby-group.com	Ron Anderson Marketing Manager
<b>The Indusco Group</b>	1200 West Baltimore St., Baltimore, MD 21230	USA	(800) 727-0665	www.indusco.com	Keith Dennis General Manager
<b>The Rigging Box, Inc.</b>	8480 Terminal Road, Lorton, VA 22079	USA	(703) 339-7575	www.riggingbox.com	Selina Conrad President & Manager
<b>The Ulven Companies/Skookum</b>	P.O. Box 280, Bardonia, NY 97032	USA	(503) 651-3175	www.ulven.com	Brent Nasset
<b>Timco, Inc.</b>	2 Greentown Road, Buchanan, NY 10511	USA	(905) 691-7102	www.timco-eng.com	Debra Dinn Sales Manager
<b>Tractel Inc., Div of Griphoist</b>	1615 Woodbine Ave., Toronto, ON M1R 2T3	Canada	(800) 465-4738	www.tractel.com	Steve Gallagher Marketing Manager
<b>Trinity Sling Authority, Inc.</b>	2201 Loop 820 North Ft. Worth, TX 76118	USA	(817) 589-2404	www.trinitysling.com	Bruce Britten Owner
<b>Tri-State Wire Rope &amp; Supply</b>	2425 West Bridger Road, Salt Lake City UT 84104	USA	(801) 954-0300	www.tristatewire.com	Mike Lister President
<b>Tulsa Chain Inc.</b>	12820 S. Memorial Dr., Box 126, Bixby OK 74008	USA	(918) 392-2829	www.tulsachain.com	Mike Robertson President
<b>Ultra-Safe, Inc.</b>	2339 N. 34th Dr., Phoenix, AZ 85009	USA	(602) 484-7713	www.ultrasafe.com	Marty Sharp President
<b>Unalloy / IWRC</b>	737 Court, Burlington, ON L7L 6A9	Canada	(905) 790-3112	www.unalloy.com	Paul Groenewald General Manager
<b>Union Sling Company</b>	P.O. Box 565301, Dallas, TX 75356	USA	(800) 999-6207	www.unionsling.com	Stella Emerson President
<b>Unirop</b>	3070 Diversal Dr., Mississauga, ON L4X 2C8	Canada	(905) 624-5131	www.unirop.com	Knut Buschmann President
<b>Unitex Group USA</b>	P.O. Box 455, 104 Atlantic Creek Road, Piedmont, SC 29673	USA	(864) 846-8690	www.unitex-usa.com	Ben Posa
<b>USHA Martin Americas, Inc.</b>	701 Plastics Ave., Houston, TX 77020	USA	(713) 676-1800	www.ushamartin.com	Sunil Sadani Vice President of Commercial
<b>Van Beest USA LLC</b>	P.O. Box 96529, 1357 Staffield Blvd., Houston, TX 77015	USA	(713) 674-5753	www.vanbeest.com	Chris Kuffer
<b>Verope USA</b>	11018 Pleasantville Dr., Houston, TX 77029	USA	(832) 831-0132	www.verope.com	Case Richter Sales Manager
<b>Visco Inc.</b>	P.O. Box 67127, Lincoln, NE 68506	USA	(402) 489-6492	www.visco.com	Larry Isaacson Owner
<b>Voto Manufacturers Sales Company</b>	P.O. Box 1299, 500 N. Third St., Steubenville, OH 43952	USA	(740) 282-3621	www.votosales.com	Janie Male President
<b>Washington Wire Rope</b>	8411 Irvington Blvd., Houston, TX 77022	USA	(800) 332-2376	www.wireropec.com	Robert Tenorio Sales

<b>WESCO Industries, Ltd.</b>	Unit 1, 9663 - 199 A St., Langley, BC V1M 2X7	Canada	(604) 881-3000	www.wescovan.com	Kaz Arai President
<b>West Coast Wire Rope &amp; Rigging Inc.</b>	2900 N.W. 29th Ave., Portland, OR 97210	USA	(800) 275-0482	www.wcwr.com	Steve Hughes
<b>West Equipment Co., Inc.</b>	1545 E. Broadway, Toledo, OH 43605	USA	(419) 698-1601	www.thewestequipment.com	Bernard Erdmann President
<b>Western Sling &amp; Supply Co.</b>	P.O. Box 208, Sedalia, CO 80135	USA	(303) 688-0978	www.westernsling.com	Stan Truitt President
<b>Wireco Worldgroup</b>	2400 W 75th Prairie Village Kansas City, KS 66208	USA	(816) 270-4700	www.wirecoworldgroup.com	Blake Chandler SVP Global Mining & Sales
<b>Wire Rope Industries</b>	5501 Trans-Canada Hwy., Pointe-Claire, QC H9R 1B7	Canada	(514) 426-6647	www.wirerope.com	Vladimir Miladinovic Manager of Business Intelligence
<b>Wire Rope Technology Aachen GmbH</b>	Grunenthaler. 40a, 52072 Aachen	Germany	+49 241 173147	www.ropetechnology.com	Roland Verreet Owner
<b>Wirerope Works, Inc.</b>	100 Maynard St., Williamsport, PA 17701	USA	(570) 327-4206	www.wvrope.com	Bill Austin Marketing Director
<b>Wisconsin Lifting Specialists, Inc.</b>	P.O. Box 1621, 2033 W. St. Paul Ave., Milwaukee, WI 53201	USA	(414) 342-7475	www.masterrigging.com	Dave Cappell Owner
<b>Worldwide Enterprises, Inc.</b>	70 Commercial Way, East Providence, RI 02914	USA	(888) 297-3900	www.wvwirerope.com	Jack Petrone Owner
<b>Yarborough Cable Service, LLC</b>	P.O. Box 70184, 950 Stage Ave., Memphis, TN 38107	USA	(800) 395-5438	www.yarcable.com	Frederick Daniel Merrill
<b>Yoke Inc.</b>	12850 E. Florence Ave., Sante Fe Springs, CA 90670	USA	(562) 903-1409	www.yoke.net	Lily Gu

## SAFETY EQUIPMENT AND PRODUCTS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Allied Safety Systems</b>	5224 W State Rd Sanford, FL 32771	USA	(407) 321-0722	www.signalarminc.com	Lance Burney Owner
<b>CM Labs Simulations</b>	645 Wellington, Suite #301, Montreal, Quebec, H3C 1T2	Canada	(514) 287-1166	www.cm-labs.com	Ophelia Gasser Marketing Coordinator
<b>Custom Crane Solutions</b>	P O Box 581 Grove City, OH 43123-0581	USA	(614) 610-4324	www.ccranesolutions.com	Darrin Caldwell Consultant
<b>Dr. Shrink, Inc.</b>	315 Washington St Manistee, MI 49660	USA	(231) 723-2685	www.dr-shrink.com	Angela Jensen Marketing Director
<b>Eartec Co.</b>	145 Dean Knauss Drive Narragansett, RI 02882	USA	(401) 782-4966	www.eartec.com	Leigh O'Connor Marketing Manager
<b>Etiflex Corp</b>	2500 E Hallandale Beach Boulevard Hallandale Beach, FL 33309	USA	(305) 824-9078	www.etiflex.com	Alicia Margulis Vice President
<b>GoLight Inc.</b>	37146 Old Highway 17 Culbertson, NE 69024-8226	USA	(308) 278-3131	www.golight.com	Jeff Shaddock Industrial Service Manager
<b>Infochip Systems Inc.</b>	#203, 1122- 3rd Ave South, Lethbridge, AB T1J 0J6	Canada	(877) 747-2448	www.infochip.com	Tom Bamford Owner
<b>Insulatus Inc.</b>	708 Marks Road, Ste B Valley City, OH 44280	USA	(216) 925-5387	www.insulatus.com	Jonathan Mitchell Sales Manager
<b>Keytroller</b>	3907 W. Martin Luther King Blvd, Tampa, FL 33614	USA	(813) 877-4500	www.keytroller.com	Terry Wickman
<b>Lynn Safety</b>	367 Civic Dr, Ste 8 Pleasant Hill, CA 94523	USA	(925) 609-7646	www.lynsafety.com	Nancy Hadley Marketing Director
<b>Moore Sales Inc.</b>	2539 Data Drive Louisville, KY 40299	USA	(502) 491-6868	www.mooreSalesinc.net	Steve Moore Owner
<b>MTS Sensors</b>	3001 Sheldon Drive Cary, NC 27513	USA	(919) 677-2315	www.mtssensors.com	Brian Cox Marketing Manager
<b>National Truck Services Group</b>	1622 N Black Canyon Hwy Phoenix, AZ 85009	USA	(602) 944-5999	www.gontsg.com	Nicole Wendt Senior Account Manager
<b>Orlaco Products B.V North America</b>	33 Confederate Avenue Jasper, GA 30147	USA	(706) 301-9227	www.orlaco.com	Peter Dove Account Manager
<b>Pacific Systems Solutions</b>	330 Uluniv St, Ste C Kailua, HI 96734	USA	(804) 869-2140	www.hookcam.com	David Catanzaro CEO

## SAFETY EQUIPMENT AND PRODUCTS continued

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Safety Resources Unlimited, Inc.</b>	4800 S.W. 20th Street Oklahoma City, OK 73128	USA	(405) 681-0407	www.sruinc.org	Jennifer Sale President
<b>Sigalarm</b>	4150 St. John's Parkway Suite 1002 Sanford, FL 32711	USA	(407) 321-0722	www.sigalarminc.com	Lance Burney President
<b>Tech Safety Lines</b>	3204 Skylane Dr, Ste D Carrollton, TX 75006	USA	(214) 987-4680	www.techsafetylines.com	Brent Wise COO
<b>Tecsis GmbH</b>	Carl-Legien-Strasse 40 Offenbach am Main, 63073	Germany	49-69-5806-9480	www.tecsis.de	Matthias Winkel Sales
<b>The Center for Construction Research and Training</b>	8484 Georgia Ave. Suite 1000 Silver Spring, MD 20910	USA	(301) 495-8523	www.cpwr.com	Mary Watters Director of Communications
<b>The Equipment Lock Co.</b>	P O Box 4308 Winchester, VA 22604	USA	(540) 722-1011	www.equipmentlock.com	Janene Ferris Marketing Manager
<b>Transportation Safety Apparel</b>	14B Cardinal Street Hilton Head, SC 29926	USA	(843) 686-4046	www.tsasafety.com	Rick Norton Large Account Specialist
<b>Unimar</b>	3195 Vickery North Syracuse, NY 13212	USA	(315) 579-3777	www.unimar.com	Thad Fink President

## SOFTWARE - LIFT PLANNING/FLEET MANAGEMENT

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>AA Software</b>	1577 S. 8th St. Fernandina Beach, FL 32034	USA	(904) 430-0355	www.3DLiftPlan.com www.iCraneTrax.com	Tawnia Weiss President
<b>Alert Management Systems</b>	617 N 17th St. Suite 250, Colorado Springs, CO 80904	USA	(719) 634-7755	www.alert-ims.com	Kara Longmire President/CEO
<b>AnyDATA Corp</b>	5 Oldfield Irvin, CA 92618	USA	(949) 900-6040	www.anydata.com	Anne Simons
<b>Avontus Software Corp.</b>	2140 Shattuck Ave, Ste 804 Berkeley, CA 94704	USA	(800) 848-1860 x2	www.avontus.com	Ali Hajighafouri Global Business Development Manager
<b>Cervis, Inc.</b>	170 Thorn Hill Road Warrendale, PA 15086	USA	(724) 741-9000	www.cervisinc.com	Norman Burch Business Development Manager
<b>CIETech Inc.</b>	5990 Auteuil Avenue Brossard, QC J4Z 1N2	Canada	(450) 923-1458	www.loadxpert.com	Cedric Guerrier Sales & Marketing
<b>Computer Ease</b>	6460 Harrison Ave, Ste 200 Cincinnati, OH 45247	USA	(800) 544-2530	www.construction-software.com	Amy Fox Vice President
<b>Critigen</b>	6161 S. Syracuse Way Greenwood Village, CO 80111	USA	(303)7060990	www.critigen.com	Ken Hill Sales
<b>Distributor Computer Systems</b>	623 Fellowship Road Mt Laurel, NJ 08054	USA	(856) 813-1750	www.dcs-success.com	Brian Campbell Director of Marketing
<b>Fleet Cost &amp; Care</b>	865 S Fort Street Detroit, MI 48217	USA	(800) 281-9445	www.fleetcostcare.com	Jack Curran Director of Sales
<b>Fleet Management Solutions Inc.</b>	3426 Empresa Dr, Ste 100, San Luis Obispo, CA 93401	USA	(805) 787-0508	www.fmsgps.com	Mike Jarvinen VP Marketing
<b>Genisys Software Inc.</b>	8601 73rd Ave N - Suite 21, Brooklyn Park, MN 55428	USA	(763) 391-6133	www.genisys.com	Ray Bonestroo President
<b>Haag Engineering Co.</b>	625 Industrial Blvd. Sugar Land, TX 77478-2819	USA	(281) 313-9700	www.haagengineering.com	Dustin Childress Assistant Vice President
<b>Hook Cam / Pacific Solutions</b>	330 Uluniv St, Ste C Kailua, HI 96734	USA	(804) 869-2140	www.hookcam.com	Emily B. Hayne Marketing Manager
<b>InfoChip Systems Inc.</b>	111 Northwood Circle Wetaskiwin, AB T9A 3L4	Canada	(877) 747-2448	www.infochip.com	Chris Gelowitz President
<b>LiftPlanner Software</b>	105 Geneva Blvd Burnsville, MN 55306	USA	(952) 435-6126	www.liftplanner.com	Jim Meehan Owner
<b>McLeod Software</b>	2550 Acton Road Birmingham, AL 35243	USA	(877)362-5363	www.McLeodSoftware.com	Rick Halbrooks Vice President of Sales



<b>N4 Systems Inc.</b>	111 Queen Street East, Suite 240, Toronto, ON M5C 1S6	Canada	(647) 477-6975	www.n4systems.com	Soem M ondal Vice President of Sales & Marketing
<b>Netarus LLC</b>	4855 Brookside Ct. bit B Norfolk, VA 23502	BA	(757) 819-4600	www.netarus.com	Chis M acbt Chief Technology Officer
<b>Orion Software</b>	6000 Cote-des-Neiges, Suite 240, Montreal, Quebec H3Z 1Z8	Canada	(514) 484-9661	www.orion-soft.com	Andre Gilbert President
<b>PeopleNet</b>	4400 Baker Road Minnetonka, MN 55343	BA	(888) 346-3486	www.peoplenetonline.com	Brian McLaughlin President
<b>Point of Rental Software</b>	1901 N State Way 360, Ste 340, Grand Prairie, TX 75050	BA	1-(800)-944-7368	www.point-of-rental.com	Greg Bennett Vice President of Sales
<b>ProMiles Software</b>	P O Box 398 Bridge City TX 77611	BA	(409) 697-2587	www.promiles.com	Tony Stro nck President, Sales & Marketing
<b>Qualcomm Inc</b>	5775 Morehouse Dr San Diego, CA 92121	BA	(858) 587-1121	www.qualcomm.com	Mark Kilpatrick Director of Public Relations
<b>Rental Result Group</b>	bit B 4, Lowfields Close Bandholt, Yorksire MK5 9QJ	UK	+1 (480) 777 7130	www.rentalresult.com	Julie Masters Marketing Manager
<b>RMI Corporation</b>	40 Billing Dr Aurora, CO 80001	BA	(800) 252-5011	www.rmisac.com	Stephanie Fitz Sales and Marketing Executive
<b>Senarc Systems, LLC - Visual Dispatch</b>	979 Daniel Dr Suite 1419 Bartlett, IL 60103	BA	(877) 736-2722	www.senarc.com	Chis Kinser President
<b>SENSIM Inc.</b>	5990 Ave Auteuil	Canada	(450) 923-1458	www.loadxpert.com	Was Sank ar Business Development
<b>Sky Guard</b>	2506 Lakeland Dr Ste 403 Floodwood, MN 55923	BA	(516) 492-0603	http://www.skyguard.com	Anthony G uercio National Sales
<b>SmartEquip Inc.</b>	83 East Ave Ste 101 Norwalk, CT 06851	BA	(203) 604-1311	www.smartequip.com	Phil Siler Vice President, Sales & Marketing
<b>Solutions By Computer</b>	191 Chestnut Street Springfield, MA 01103	BA	(413) 737-0499	www.solutionsbycomputer.com	Jack Sba Founder
<b>EvokedSet Limited</b>	Edison House, Bury Square, Reading, Berkshire RG1 3B	UK	+44 (0) 844 870 8025	www.evokedset.com	Nicky Egan ( CEO ) Director
<b>Tekla</b>	1075 Big Sandy Rd NW Suite 175, Kennesaw, GA 30144	BA	(770) 426-5105	www.teklalac.com	MaryC hiefreda Marketing Manager
<b>Telogis</b>	20 Enterprise, Ste 100 Aliso Viejo, CA 92656	BA	(949) 389 5500	www.telogis.com	Tina Shilling Marketing Director
<b>Texada Software</b>	7B-291 Woodlawn Rd W Guelph, ON N1H7L6	Canada	(519) 836-7073	www.texadasoftware.com	Brian Spilak CEO
<b>The JobClock</b>	27001 Agoura Rd, Suite 280, Calabasas, CA 91301	BA	(888) 788-8463	www.jobclock.com	John Bra President
<b>The Karma Group</b>	118 S. Adams St. Green Bay, WI 54313	BA	(920) 432-6685	www.thekarmagroup.com	Ellen Beardsley-Wildeman Media Director
<b>Timmons Group</b>	117 S. 14th Street, Suite 303, Richmond, VA 23219	BA	(804) 521-1065	www.timmonsgroup.com	Lowell Ballard Principal, Director of Geospatial Solutions
<b>WennSoft</b>	5355 S Moorland Street New Berlin, WI 53151-1187	BA	(262) 821-4100	www.wennsoft.com	Kirchens, Industry Customer Acquisition Marketing Manager
<b>Visual Dispatch</b>	979 Daniel Dr Suite 2018 Bartlett, IL 60103	BA	(800) 929-1441	www.visualdispatch.com	Ryan Kuh COO
<b>Wet Collect</b>	1001 Boulders Parkway Suite 300, Richmond, VA 23222	BA	(804) 200-6438	www.wetcollect.com	Chis D erson President
<b>WrightPlan Incorporated</b>	30 Dupont St. East, Ste 204, Waterloo, ON N2J 2G9	Canada	(519) 489-2320	www.wrightplan.com	Michel Cox President
<b>Wynne Systems Inc.</b>	2603 Main Street, Suite 710, Irvine, CA 92614	BA	(949) 224-6300	www.wynnesystems.com	John Bureau Director of Sales & Marketing

## SPECIALIZED RIGGING/LIFTING MANUFACTURERS

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>ALE</b>	1650 Highway 6, Suite 140 Sugar Land, TX 77478	USA	(713) 946-3125	www.ale-heavylift.com	Russel Quebedeaux US Key Accounts Manager
<b>American Heavy Moving &amp; Rigging</b>	11532 East End Avenue Chino, CA 91710	USA	(909) 590-5662	www.americanheavymoving.com	Kirk Martin Vice President
<b>Bardex Corporation</b>	6300 Lindmar Drive Goleta, CA 93117	USA	(805) 964-7747	www.bardex.com	Max Whitley Sales
<b>Bigge Crane &amp; Rigging</b>	10700 Bigge Avenue San Leandro, CA 94577	USA	(510) 638-8100	www.bigge.com	Weston Settlemier President
<b>Buckingham Structural Moving Equipment</b>	10 Birch Lane Bernville, PA 19506	USA	(610) 488-8969	www.buckinghamequipment.com	Kendall Siegrist Marketing Director
<b>Columbus McKinnon Corp.</b>	205 Crosspoint Pkwy Getzville, NY 14068	USA	(716) 689-5400	www.cmworks.com	Tom Trost Director of Sales-Rigging
<b>Cometto</b>	Via Cuneo, 20 Borgo San Dalmazzo (CN) 12011, Italy	Italy	+39 0171 263300	www.cometto.com	Alberto Di Stefano Sales Manager
<b>Enerpac</b>	N86 W12500 Westbrook Crossing, Menomonee Falls, WI 53051	USA	(262) 293-1684	www.enerpac.com	Peter Crisci Global Business Development Leader
<b>Engineered Rigging</b>	300 Industrial Blvd Russellville, AR 72802	USA	(219) 712-4579	www.engineeredrigging.com	Christopher Cox President
<b>Engineered Heavy Services</b>	4116-34th Avenue NE, # B, Everett, WA 98205	USA	(425) 259-0213	www.genps.net	Greg Nordholm Owner
<b>EzRig Crane</b>	1500 Palma Dr. 2nd Floor, Ventura, CA 93003	USA	(805) 643-4387	www.ezrigcrane.com	Andy Collins
<b>Fagioli Inc.</b>	21310 Highway 6 Manvel, TX 77578	USA	(281) 997-3434	www.fagioli.com	Edoardo Ascione President
<b>Faymonville Distribution</b>	Duarrefstrooss 8, L-9990 Weiswampach	Luxembourg	352 26 90 04 155	www.faymonville.com	Paul Hönen Sales Manager
<b>GKS Lifting &amp; Moving Solutions</b>	300 East Auburn Avenue Springfield, OH 45505	USA	(937) 324-8867	www.gksweb.com	Andrew Wal Operations Manager
<b>Goldhofer</b>	12090 Miramar Parkway, Suite 105 Miramar, FL, 33025	USA	(954) 433-5617	www.goldhofer.us	Stefan Kohler Vice President of Sales Transport Technology
<b>Greenfield Products LLC</b>	3111 West 167th Street Hazel Crest, IL 60429	USA	(708) 331-3115	www.greenfieldpi.com	Anzola (Gus) Gustavo Sales
<b>Hilman Rollers</b>	12 Timber Lane Marlboro, NJ 07746	USA	(732) 462-6277	www.hilmanrollers.com	Jeff Hill Director of Marketing
<b>Holland Moving &amp; Rigging Supplies</b>	35545 Hwy 69 Forest City, IA 50436	USA	(641) 585-3630	www.hmrssupplies.com	Paul Oulman Director of Manufacturing
<b>HydraSlide Ltd.</b>	84 Royal Road Guelph, ON N1H 1G3	Canada	(519) 900-1450	www.hydra-slide.com	Janine Smith Vice President
<b>Industrial Magnetics, Inc.</b>	1385 M-75 South Boyer City, MI 49712	USA	(231) 582-3100	www.magnetics.com	Dennis O'Leary President
<b>Industrie Cometto S.P.A.</b>	12011 Borgo S. Dalmazzo Cuneo, Via Cuneo, 20	Italy	+39 0171 263300	www.cometto.com	Giovanni Monti Sales Director
<b>J&amp;R Engineering Co. Inc.</b>	538 Oakland Avenue Mukwonago, WI 53149	USA	(262) 363-9660	www.jrengo.com	John McMahon VP Sales & Service
<b>Kitchen's Crane &amp; Equipment</b>	7913 Dunnottar Ct. Chesterfield, VA 23838	USA	(804) 814-4844	www.kitchensequipment.com	Eddy Kitchen Director
<b>Lampson International</b>	607 E. Columbia Drive Kennewick, WA 99336	USA	(509) 586-0411	www.lampsoncrane.com	Bill Lampson President & CEO
<b>Lift Systems, Inc.</b>	P O Box 906 Moline, IL 61266	USA	(309) 764-9842	www.lift-systems.com	Brian Wagner VP Sales and Marketing
<b>Logistic Dynamics, Inc.</b>	155 Pineview Drive Amherst, NY 14228	USA	(541) 306-6732	www.ldispecialized.com	JB Baker General Manager
<b>MAGNA Lifting Products, Inc.</b>	P O Box 2290 Blaine, WA 28931	USA	(360) 392-0432	www.magnalifting.com	Philip Gardner President
<b>Mammoet USA</b>	20525 FM 521 Rosharon, TX 77583	USA	(281) 369-2200	www.mammoet.com	
<b>MidAtlantic Lift</b>	309 Roxbury Industrial Court Charles City, VA 23030	USA	(804) 387-9373	www.midatlanticlift.com	Travis Hall Manager
<b>Mid Jack Products</b>	3111 W 167th Street Hazel Crest, IL 60429	USA	(708) 596-5200	www.mi-jack.com	Mike Lanigan, Jr. Sales Manager Director
<b>Modulift UK Ltd</b>	11 New Fields Business Park Stinsford Rd, Poole BH17 0NF	U.K.	(0) 1202 621511	www.modulift.com	Malcolm Peacock Business Development Manager

<b>Power Pusher</b>	546-2895 Barry Road East Mississauga, ON L4T 1A6	Canada	(905) 764-6942	www.usbrpulldom.com	SlirB alk Sales and Marketing
<b>Riggers Manufacturing Company</b>	PO Box 506 Don, IL 61021	USA	(815) 288-7626	www.rig-gers.com	Bruce B rster President
<b>Rigging Gear Sales, Inc.</b>	1555 IL Route 26 South Don, IL 61021	USA	(815) 288-6403	www.rg-sinc.net	Benjim B rster General Manager
<b>Sarens USA</b>	2812 Avenue S Kinson, TX 77539	USA	(832) 536-3669	www.sarens.com	Mike bsey Regional Dec tor North America
<b>Shuttlelift</b>	49 Ew Street Sturgeon Bay, WI 54235	USA	(920) 743-1522	www.shuttlelift.com	Kurt Minten Sales Dec tor
<b>TransWorld Manufacturing</b>	6109 Ban Martin Dr Las Vegas, NV 89118	USA	(702) 798-8920	www.twm-usa.com	Crystal Deam, President
<b>Water Weights Inc.</b>	470 Satellite Blvd NE Suwanee, GA 30024	USA	(678) 730-4180	www.waterweightsinc.com	Jirdo ta Marketing Manager

## TRAINING CERTIFICATION & INSPECTION SERVICES

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>ACRA Enterprises</b>	5950 Red Arrow Hwy Stevensville, MD 149127	USA	(269) 429-6240	www.acratech.com	JerryK linke ner
<b>All Crane Training USA Inc.</b>	9131 San Leandro Street #10, Oakland, CA 94603	USA	(510) 638-6243	http://actuinc.com	Stephanie C aring nani ner
<b>All Test &amp; Inspection</b>	9998 Goodbe St N E Blaine, MN 55449	USA	(763) 780-2312	www.alltest.com	Scott Waters ice President
<b>AmCrane</b>	2544 Stoneview Road Band o, E 32806	USA	(407) 709-3268	www.amcranes.com	Burt Tb rpe Training Manager
<b>America Crane Training Services Inc.</b>	PO Box 740177 Cang e City, E 32774	USA	(386) 943-9726	www.americacranetraining.com	Bonna bting s President
<b>American Crane Training &amp; Consulting</b>	PO Box 2582 Cutt, CA 93457	USA	(805) 314-4121	www.americancranetraining.com	Greg Peters ner/Trainer
<b>American International Crane Bureau – AICB</b>	12514 Wody Road Pearland, Texas 77581	USA	(281) 871-1863	www.aicbureau.com	Justin Meade s B M anager
<b>American Test Center</b>	2773 Prairie Dr Rier Hills, WI 54022-0408	USA	(800) 451-9087	www.atc-test.com	Dhnis I reland President
<b>Apprenticeship &amp; Skill Improvement Program</b>	19800 So uth Arsenal Rd Wing ton, IL 60481	USA	(815) 722-3201	www.asip-local150.org	Jaes M .Sw eeney Ch iram
<b>Arxcis Inc.</b>	PO Box 689 Kingston, WI 98346	USA	(360) 297-3693	www.arxcis.com	Myron Lee Co b under
<b>Associated Training Services</b>	7190 Eer Lane Sun Prairie, WI 53590	USA	(608) 354-0765	www.operator-scb-olc.com	Joh K labacka President
<b>Atlantic Crane Inspections Service</b>	PO Box 747 Bensalem, PA 19020	USA	(215) 639-2579	www.atlanticcrane.com	Bill bl ttenstein President
<b>Barth Crane Inspections LLC</b>	PO Box 1493 Goose Creek, SC 29445	USA	(843) 871-8877	www.craneoperator.com	Torb arth ner
<b>BC Association for Crane Safety</b>	PO Box 48883 Bentall 595 Burrard Street Vnc over, BC V7X 1A8	Canada	(604) 336-4699	www.bcacs.ca	Faser C ocks E cutie Dec tor
<b>California Crane School</b>	111 Bank Street # 54 Grass Valley, CA 95945	USA	(888) 967-7277	www.californiacraneschool.com	Linda Bleins D fice Manager
<b>Cairo Marine Service, Inc</b>	PO Box 620 Jackson, MD 3755	USA	(573) 243-6772	www.cairo-marineservice.com	Bruce Marrs President
<b>CH C&amp;R Consultants</b>	277 Braes Wy Caldwell, TX 77836	USA	(979) 272-0478	www.chcrane.com	Brek hson ner
<b>Columbus McKinnon Training</b>	140 Joh Jaes A Amst, NY 14228	USA	(716) 689-5400	www.cmkorksc.com/training	
<b>Construction Safety Experts</b>	PO Box 91385 Raleigh, NC 29675-2935	USA	(866) 463-0669	www.safety-experts.com	TerryY ounge ner
<b>Crane Certification Services</b>	8076 Richard Road Broadview Hg ts, B	USA	(216) 789-6562	www.cranecert.com	George Wc ata ner
<b>Crane Exam, LLC</b>	221 S.35th Street Pb enix, AZ 85009	USA	(602) 541-0364	www.cranexam.com	Ronnie Gray Senior Techic al Trainer
<b>Crane Industry Services, LLC</b>	PO Box 1300 Warrica, GA 30180	USA	(770) 783-9292	www.enteredonsafety.com	D bbie D knson CB
<b>Crane Inspection &amp; Certification Bureau (CICB)</b>	11112 Bogy Creek Rd Band o, E 32824	USA	(800) 327-1386	www.cicb.com	BillyC ook Dec tor of Sales
<b>Crane Inspection Services</b>	PO Box 461, Birb pe, AL 36533	USA	(251) 928-6262	www.craninspection.com	Jaes P ritcatt President



## TRAINING CERTIFICATION & INSPECTION SERVICES *continued*

COMPANY NAME	ADDRESS	COUNTRY	PHONE	WEBSITE	PRIMARY CONTACT
<b>Crane Institute Certification</b>	4011 W. 1st Street Sanford, FL 32771	USA	(844) 546-3362	www.cicert.com	Christine Cromarty Administration
<b>Crane Institute of America</b>	3880 St. John's Parkway Sanford, FL 32771	USA	(800) 832-2726	www.craneinstitute.com	Jennifer Curtiss Training Coordinator
<b>Crane Operators Certification and Inspections Inc.</b>	2114 Industrial Park Road Lincolnton, NC 28092	USA	(704) 735-2707	www.cociinc.com	Stephanie Reynolds Office Manager
<b>Cranes 0</b>	57 B Mendon Street Bellingham, MA 02019	USA	(508) 966-4100	www.cranes101.com	Jay Sturm Owner
<b>Crane Safety Associates of America</b>	730 Oak Grove Road McDonough, GA 30253	USA	(800) 356-2212	www.cranesafetyassociates.com	Shane Adams President
<b>Crane Tech, LLC</b>	1215 Millennium Parkway Brandon, FL 33511	USA	(813) 248-4800	www.cranetech.com	Tony Dotto VP/Operations Manager
<b>Crane U</b>	5650 Double Oak Lane Birmingham, AL 35242	USA	(855) 9CRANEU	www.craneu.com	Melanie Laird VP & Marketing Director
<b>Crane Wise Certifications, LLC</b>	312 NE Loop 289 Lubbock, TX 79403	USA	(806) 744-2999	www.cranewisellc.com	Chad Trumble Owner
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 W: [www.gseecrane.com](http://www.gseecrane.com)

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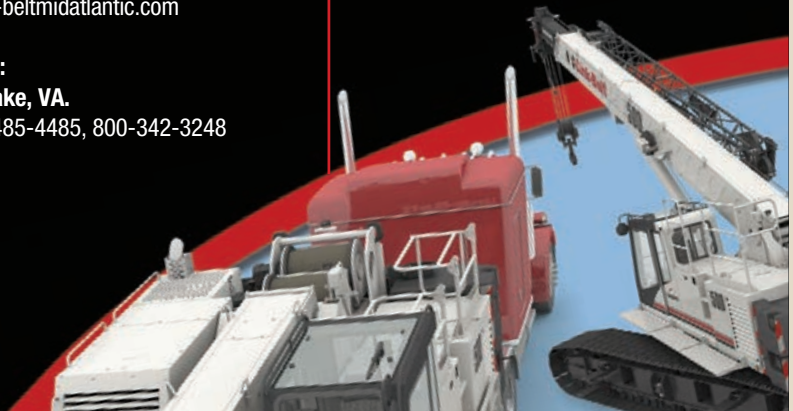
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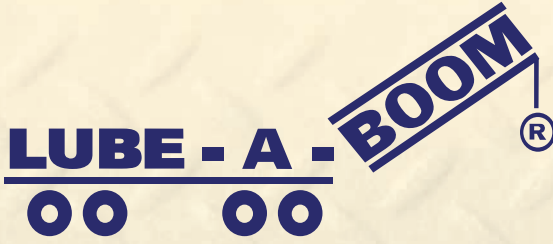
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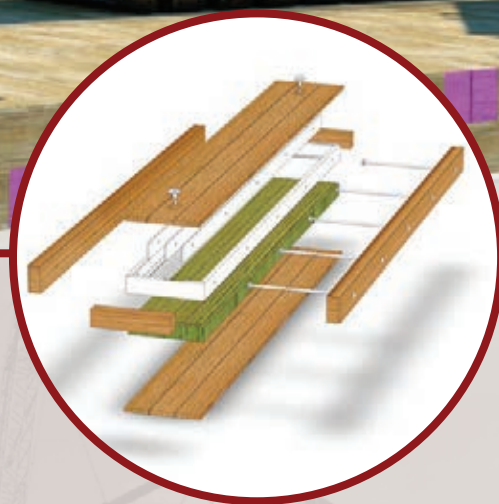
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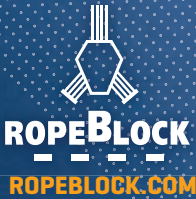
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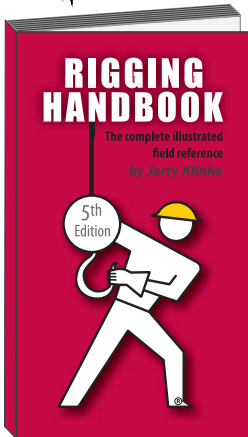
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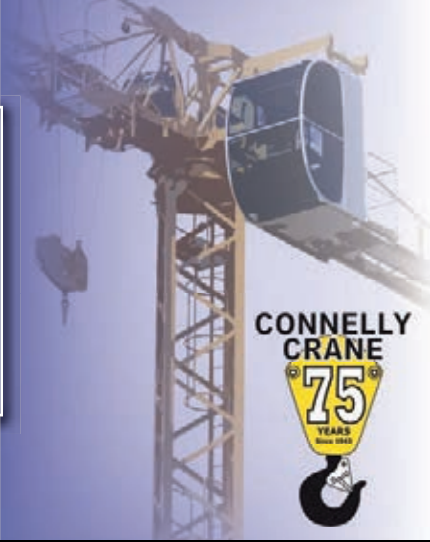


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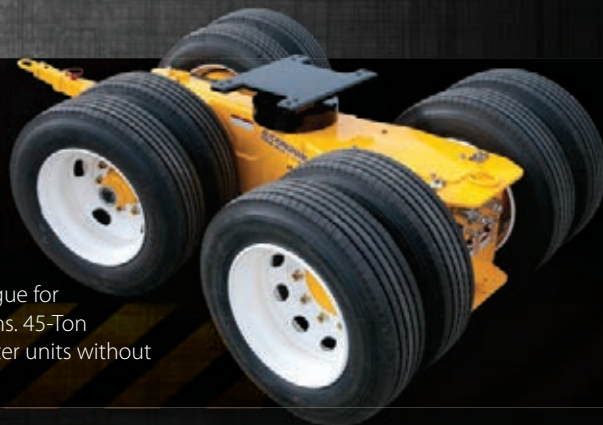
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# INTERNATIONAL IC TOWER CRANES

CONFERENCE AND NETWORKING

## SAVE THE DATE

26 AND 27 JUNE, 2019

HOTEL SAVOYEN, VIENNA, AUSTRIA



#### FOR SPONSORSHIP OPPORTUNITIES CONTACT

Mike Posener  
Tel: +353 860 431 219  
mike.posener@khl.com

Matt Burk  
Tel: +1 312 4963314  
matt.burk@khl.com

#### TO SUBMIT A SPEAKER PROPOSAL CONTACT

Alex Dahm  
alex.dahm@khl.com  
Tel: +44 1892 786206

Murray Pollok  
murray.pollok@khl.com  
Tel: +44 1505 850043

#### WHAT

Full-day conference and networking reception.

#### WHERE

Hotel Savoyen, Vienna, Austria

#### WHEN

26 June 2019 - Evening networking reception

27 June 2019 - Full-day conference

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