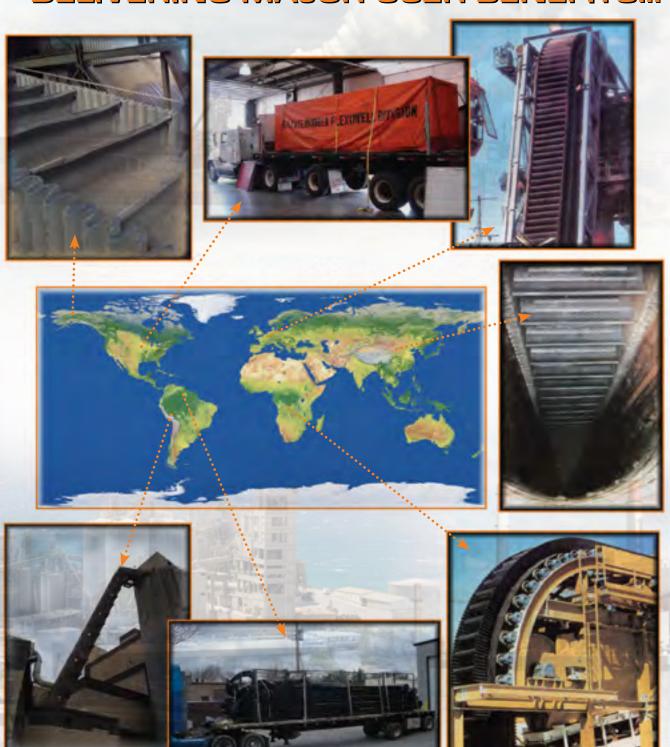


www.bistaterubber.com Phone: 1+636-349-2388 Fax: 1+636-349-2393

BI STATE RUBBER

DELIVERING MAJOR USER BENEFITS...



WITH OVER 60,000 INSTALLATIONS WORLD-WIDE

Bi-State Rubber, Inc. Phone: 1+636-349-2388 Fax: 1+636-349-2393

FLEXOWELL®

The **true world leader** in flexible sidewall conveying technology, FLEXOWELL is a full-service supplier of conveyor belts and systems for higher productivity in bulk materials handling. FLEXOWELL belts are designed for horizontal, inclined and vertical transport of all types of bulk materials from coal, ore, sand or rock, to fertilizer and grain.

WHY CHOOSE FLEXOWELL® BELTS?

- · Lower power consumption
- Faster installation
- Minimal downtime

- Lower maintenance costs
- No Transfer Points

GLOBAL RANGE OF APPLICATIONS

Highly reliable, FLEXOWELL belts ensure environment - friendly operations in all types of industrial facilities. There is a virtually unlimited range of applications, some of which include:

- Coal and wood chip fired power plants
- Underground ore and coal mines
- Shaft belts for tunneling and mining
- Iron and steel production
- Ship loading/unloading and ship-to-ship transfer
- Recycling sand in foundries
- Silo feed systems
- Hi wall transport in open pit mines
- High volume horizontal transport
- · Waste recovery, soil recycling and water treatment

FLEXOWELL belting permits you to design a bulk handling system with greater carrying capacity, and offers the widest range of applications in the industry.

Compared with conventional bulk handling approaches, FLEXOWELL belting carries abrasive or corrosive material with substiantially less wear than bucket elevator, drag or screw conveyors. It also carries a greater volume than is possible with these traditional approaches or flat belting.

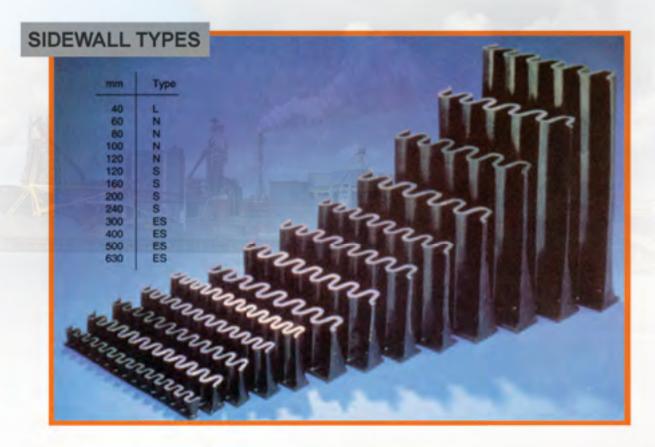
With an unmatched capability for inclined transport of virtually all types of materials at any angle, up to and including 90°, FLEXOWELL enables design of high - capacity, high - performance transport systems at reduced capital cost. Reliable, environment - friendly, FLEXOWELL technology has delivered major user benefits at over 60,000 installations world - wide.

FLEXOWELL - YOUR SINGLE SOURCE

FLEXOWELL Conveyor Belting's operations cover all aspects of conveyor belt technology; from research and design, to manufacturing, installation and lifetime service. The payoff for our customers takes the form of higher performance, higher productivity and long - term investment safeguards.

FLEXOWELL has a comprehensive inventory and belt fabrication facility for the North American market located at Bi - State Rubber in Fenton, Missouri - a joint partner with FLEXOWELL..

BI STATE RUBBER



CLEAT STYLES

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BELT STRUCTURE

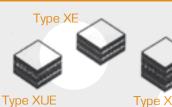
A FLEXOWELL belt is comprised of three basic components, a cross rigid base belt with horizontal fabric or steel-cord reinforcement, corrugated sidewalls of reinforced rubber, and cross cleats available in one or two piece designs.

CROSS RIGID BASE BELT...

This patented, cross-rigid base belt can be deflected from horizontal to an incline and back again without bowing or sagging under even the heaviest loads. It is available in a full spectrum of widths and tension ratings, with fabric or steel cord construction.

Rubber Qualities...

- a) Black, standard
- b) Black, oil resistant c) Black, heat resistant
- d) Black, flame resistant
- e) Black, MSHA approved flame retardant









	С	ROSS-RIGI	D BASE BELTIN	IG		
W	orking	Strength		Cover Th	nickness	
Туре	PIW	N/mm	Belt Thickness	Top	Bottom	
XE200/2	115	200	¹¹ / ₃₂ [9mm]	⁵ / ₆₄ [2mm]	⁵ / ₆₄ (2mm)	
XOE315/2+1	180	315	¹³ / ₃₂ (10.2 mm)	⁵ / ₃₂ [4 mm]	⁵ / ₆₄ [4 mm]	
XOE500/3+1	285	500	¹⁵ / ₃₂ [11.6 mm]	⁵ / ₃₂ [4 mm]	⁵ / ₆₄ [4 mm]	
XOE630/4+1	360	630	¹⁷ / ₃₂ (13.1 mm)	⁵ / ₃₂ [4 mm]	⁵ / ₆₄ [4 mm]	
XOE800/5+1	455	800	⁹ / ₁₆ (14.6 mm)	⁵ / ₃₂ [4 mm]	⁵ / ₆₄ [4 mm]	
XOF1000/6+1	570	1000	⁵ / ₈ (15.9 mm)	⁵ / ₂₂ [4 mm]	5/ ₆₄ [4 mm]	

	SIDI	EWALLS	
Type	Height (H)	Width (W)	Pitch (P)
40L	1 ⁹ / ₁₆ (40mm)	1³/ ₁₆ (30mm)	1 ³/ _s (35mm)
60N	2 ³ / ₈ (60mm)	2 (50mm)	1 ⁵ / ₈ (42mm)
80N	3 ¹ / ₈ (80mm)	2 <mark>(50mm)</mark>	1 ⁵ / ₈ (42mm)
100N	315/16 (100mm)	2 (5 <mark>0mm)</mark>	1 ⁵ / ₈ (42mm)
120N	4 ³ / ₄ [120mm]	2 (50mm)	1 ⁵ / ₈ (42mm)
1205	4 ³ / ₄ [120mm]	2 ¹⁵ / ₁₆ (75mm)	2½ (63mm)
160S	6 ⁵ / ₁₆ (160mm)	2 ¹⁵ / ₁₆ (75mm)	2½ (63mm)
200S	7 ⁷ / ₈ (200mm)	215/16 (75mm)	2½ (63mm)
240S	9 ⁷ / ₁₆ (240mm)	2 ¹⁵ / ₁₆ (75mm)	2½ (63mm)
280S	11 (280mm)	2 ¹⁵ / ₁₆ (75mm)	2½ (63mm)
300ES	$11^{13}/_{16}$ (300mm)	3 ¹⁵ / ₁₆ [100mm]	315/16 (84mm)
400ES	15 ³ / ₄ (400mm)	3 ¹⁵ / ₁₆ (100mm)	315/16 (84mm)
500ES	19 ¹¹ / ₁₆ (500mm)	3 ¹⁵ / ₁₆ (100mm)	315/16 (84mm)
630ES	24 ³ / ₄ (630mm)	315/16 (100mm)	315/16 (84mm)

CROSS CLEATS...

For optimum carrying efficiency, you can specify base belting without cleats for elevations up to 18°, or with cleats for steep applications. Select from a variety of cleat styles consistent with the angle of inclination and the type of material being handled. In some styles, a two part cleat is an option, consisting of a rubber base and either rubber or urethane blade.

CORRUGATED SIDEWALLS...

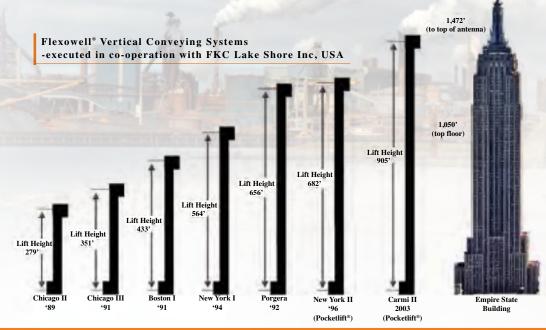
Available in heights from 40mm (1 9/16") to 630mm [243/4"], the flexible design and construction of rounded sidewalls yield longer life by reducing belt stress at the head and tail pulleys. It also lets you design out of troublesome transfer points for longer wear and less material degradation.

		CLE	ATS		
Type	Heig	ght (H)	Type	Hei	ght (H)
T20	25/32	(20mm)	C35	13/8	(35mm)
T35	1³/ ₈	(35mm)	C55	23/16	(55mm)
T55	23/16	(55mm)	C75	215/16	(75mm)
T75	215/16	(75mm)	C90	317/32	(90mm)
T90	317/32	(90mm)	C110	45/16	(110mm)
T100	315/16	(100mm)	C140	51/2	(140mm)
T-GS 110	45/16	(110mm)	C180	71/16	(180mm)
T-GS 120	43/4	(120mm)	C220	811/16	(220mm)
T-GS 140	51/2	(140mm)	TC-G 110	45/16	(110mm)
T-GS 160	65/16	(160mm)	TC-G 140	51/2	(140mm)
T-GS 180	71/16	(180mm)	TC-G 180	$7^{1}/_{16}$	(180mm)
T-GS 200	77/8	(200mm)	TC-G 220	811/16	(220mm)
T-GS 220	811/16	(220mm)	TC-G 260	$10^{7}/_{32}$	(260mm)
T-GS 240	9 7/16	(240mm)	TC-G 280	11	(280mm)
T-GS 300	1113/16	(300mm)	TC-G 360	143/16	(360mm)
T-GS 400	15³/₄	(400mm)	TC-G 470	18 1/2	(470mm)
T-GS 500	1911/16	(500mm)	TB-GS 500	1911/16	(500mm)
T-GS 630	24 ³ / ₄	(630mm)	TB-GS 600	235/8	(600mm)

RUBBER BI STATE

FLEXOWELL®

RISING ABOVE THE COMPETITION



As the true world leader in flexible sidewall conveying technology, we have proven our high capacity and superior quality conveying capabilities. Compared with installations by the competition...

ONLY FLEXOWELL® CAN "MEASURE UP"

- **Most Installations**
- **Most Experienced**
- **Highest Capacity**
- **Highest Lift**
- **Widest Belts**
- **Strongest Belts**
- **Ultra-Low Belt Stretch**
- **Highest Sidewalls**
- **Highest Cleats Broad Market Coverage**

- → over 60,000 belts supplied
- → since 1964, the originator of flexible sidewall conveyor concept
- → vertical 211,888 ft³/hr
- → 905' Vertical
- → 126" single or double cross-rigid plies (as required)
- → to 4560 piw
- → fabric or steel cord
- **→** 24.8"
- → 23.6" 2 part design 11" to 23.6"
- → presence in 45 countries

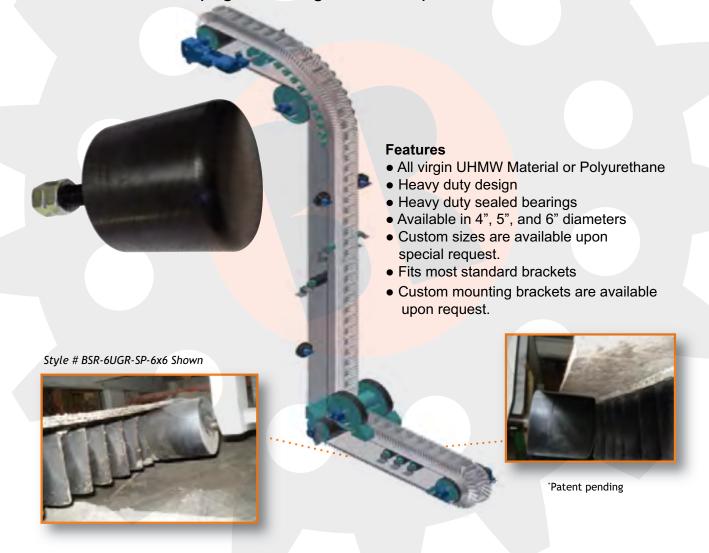
Don't settle for less.



The FIRST and ALWAYS THE BEST.

Bi-State Rubber UHMW Stub Idler

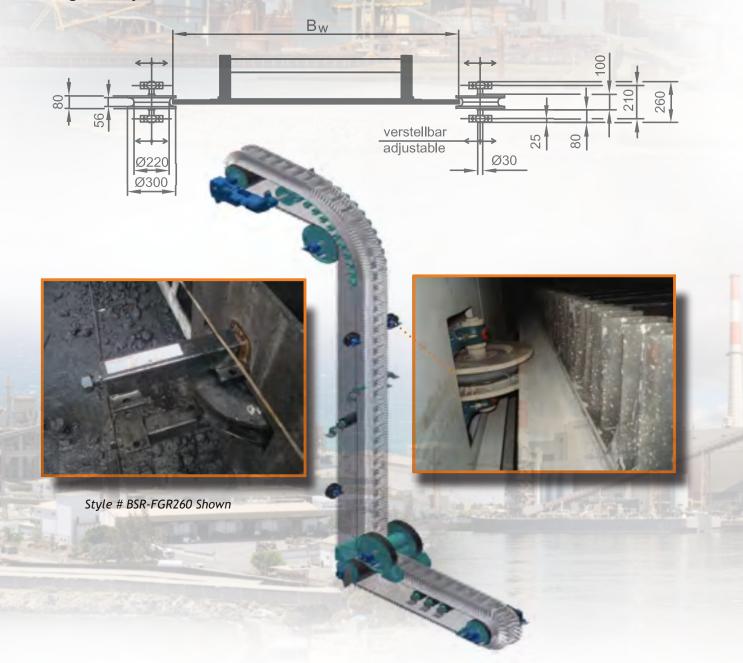
Special "radius" designed stub idlers with two heavy duty sealed bearings. All "UHMW" Design for longer wear life, helps provide extra protection to both the base cross-rigid belt and the corrugated sidewalls. Specially designed for high angle or incline style pocket belts. See back page showing field examples.



BI STATE RUBBER

Bi-State Rubber Pocket Belt Guide Wheels

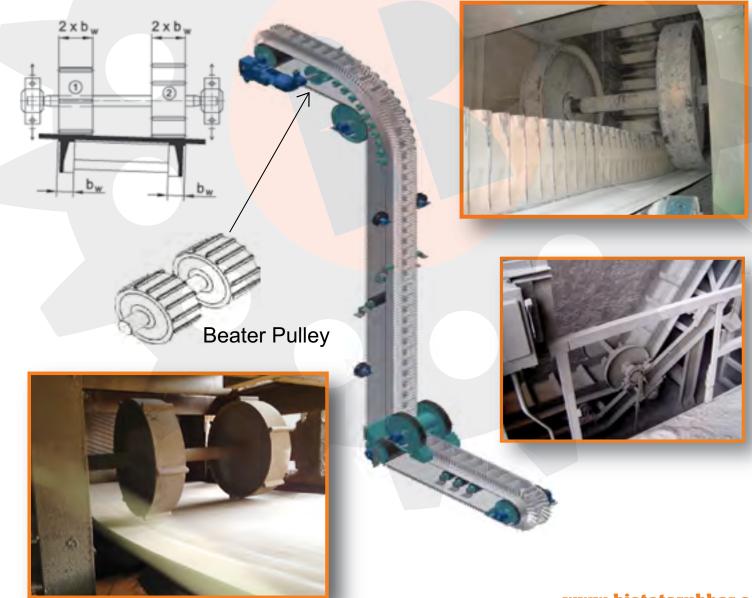
Special "all rubber" designed guide wheel for use on incline and vertical pocket belt conveyor systems. The rubber wheels won't damage the belt free lateral area as would metal guide rollers which are commonly used. Designed by Flexowell.



Bi-State Rubber Beater Pulley/Deflection Wheels

Special designed Beater Pulley to help clean out pockets on vertical and incline pocket systems. Beater Pulley gently knocks the belt from the bottom side to help loosen material for a better discharge.

Deflection wheels are designed per your application and conveyor requirements. They come in either Standard or Mine Duty classifications or in special cases Engineered Class wheels are offered.



BI STATE RUBBER

Minet Super Screw, Flexible Fastener

High Resistance Fasteners Using Self Tapping Screws







MATERIAL reinforced rubber

INSTALLATION using Minet screws with a screwdriver tool. No special tooling required

APPLICATIONS joining of textile belts under high tension, heat and in abrasive conditions. for solid-woven and multiple belts.

FEATURES leakproof joint without hinge, flexible over pulleys, long reachback into belt, as strong as hot vulcanized splice.

BENEFITS:

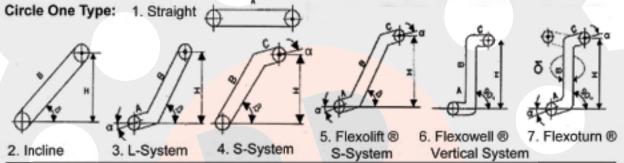
LEAK-PROOF All Super-Screw flexible fasteners are in one piece, with no hinge. There is no possibility for conveyed material to sift through the splice.

FLEXIBLE Flexible Super-Screw fasteners are designed to follow belt movement around the pulleys.

Flexowell® Belt Design Worksheet

Please fax to 636.349.2393 upon completion

Basic Customer Information	
Company:	Date:
Address:	Phone:
City, State:	Fax:
Postal Code:	Contact:
Country:	E-mail:

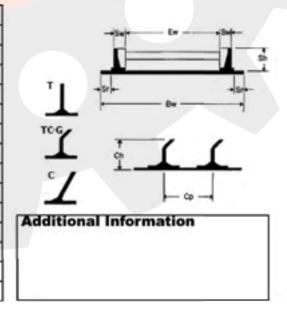


0 " "					
"B" Incline:	ft	"H" Lift Height:	ft	"O" Torsion Angle:	deg
"A" Feeding:	ft	"C" Discharge:	ft	"B" Incline Angle:	deg

Capacity (tonage):	stph	Material:		
Max. Lump Size:	in.	Density:	lbs/ft	
Belt Speed:	fpm	Belt Width:	in.	
Material Temp:	deg F	Moisture:	%	

Check all that apply:	Oil/Fat: []	Splice: []	Open End: []
The second second	Vulcanized Endless: []	Mechanical: []	Fire Resistant: []

Belt Width (Bw):	in
Base Belt Tension Rating:	piw
Base Belt Quality (eg. black stand	lard):
Sidewall Recess (Sr):	in
Effective Width (Ew):	in
Sidewall Height (Sh):	in
Sidewall Width (Sw):	in
Cleat Type: [] T / [] C / [] TO	G
Cleats screwed to sidewalls? []	Y / [] N
Cleat Height (Ch):	in
Cleat Pitch (Cp):	in
Belt Length (open or endless):	ft
Pulley Diameter (in.) Head:	Tail:
Winged Pulleys? [] Y / [] N	
Existing Belt Manufacturer:	





Other items offered by Bi State Rubber:



WEIGHT FEEDER BELTS

VACUUM AND MATERIAL HANDLING HOSES





MAGNETIC SEPARATOR BELTS

FLUE DUCT AND SPOOL
TYPE EXPANSION JOINTS





TUMBLE / SHOT BLAST BELTS

CONVEYOR FLAT BELTING

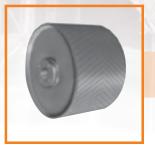




ARGONICS BELT SCRAPERS /
SKIRTING SYSTEMS

AIR SLIDE MATERIALS -NEEDLED AND WOVEN





VAN GORP PULLEYS

BOOTS AND BELLOWS



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