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BUYERS' GUIDE & DIRECTORY 2010-2011



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Letter from the Editor

Welcome to Steel Times Buyers' Directory.

This Supplement of *Steel Times International* aims to provide an annually updated guide of suppliers of plant, equipment and services to the steel industry.

As a supplier, if your company is not included please e-mail tammybreese@quartzltd.co.uk for a form for inclusion in the next Directory.

Steel Times International is an English language journal with a global readership in over 110 countries. It contains a digest of global news, events, statistics, and stock-holding news, as well as more detailed technical articles, company and country profiles, conference reports and regular regional economic briefings.

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A Report on the environmental benefits of recycling – A critical review of the data for steel

The Bureau of International Recycling (BIR) commissioned Imperial College, London to obtain the energy requirements and carbon footprint impact for the production of primary and secondary metals. Using their 'benchmark' value for BF-BOF steelmaking and their mean value for scrap melting in the EAF, the report concludes that only a 16% saving in energy is achieved by recycling but a 58% reduction in CO₂ emissions result. Using their mean values for the BF-BOF, the energy saving increases to 46.6% and using alternative industrial data, which reflects a higher energy requirement for the BF-BOF route and a far lower requirement for the EAF than the BIR Report, energy savings are as high as 69%.

By Editor Steel Times

THE REPORT, 'Report on the environmental benefits of recycling' prepared by the Centre for Sustainable Production and Resource Efficiency (CSPRE) of Imperial College London, provides an extensive review of energy requirements and associated CO₂ emissions for the production of steel, aluminium, copper, lead, nickel, tin and zinc.

The data brings together various sources to present energy requirements for primary production of these metals from their ores and secondary production from recycled (scrap) metal. It uses these results to calculate an average for the carbon footprint of each process route.

This article reviews the data for steel production and finds some to be at odds with the industrial accepted norms and draws on comments from representatives of these industries in an attempt to reconcile the data. A comparison is also made with data from the Report for primary and secondary production of aluminium.

Much of the anomaly between the report's conclusions and the industrial accepted values arise from the limited data sources used in the report and the lack of any weighting to account for the global share of various production methods cited when calculating mean values.

Text taken from the BIR report is presented in italics and comments are made in Roman text. The Tables use data taken from the BIR Report except Table 8 derived from data supplied by SGL, and Table 12 which is from the International Aluminium Institute (IAI). Also Table 11 is derived from the BIR data but is not published in the format presented here. For clarity, the tables are referred to by number in this text although the BIR report does not number the tables.

The BIR Report states: *In 2006, world production of steel was 1245Mt in which scrap consumption amounted to approximately 440Mt.*

The figure for crude steel total production is in accord with the data published by the World Steel Association (formerly International Iron & Steel Institute) but the consumption of scrap

is 4.1% lower, worldsteel quoting 459Mt. This difference equates to some 37Mt of CO₂ emissions saved that year.

The energy requirements reported for the whole life cycle of steel production from ore to metal via the blast furnace – oxygen steelmaking (BF-BOF) route and for the conversion of ore concentrate to steel by this route, are presented in the following two tables (Tables 1 & 2).

Source	MJ/kg Steel
Das and Kandpal	29.2
Hu et al	25.5
Sakamoto	25
Norgate	22
Price et al (Open Hearth)	20.1
Price et al	16.5
Phylipsen et al	15.17
Mean (SD)	21.9 (5.1)

Table 1 Energy requirements for steel production from ore via the BF-BOF

Source	MJ/kg Steel
Ertem and Gorgen	16.58
Price et al	15.6
Phylipsen et al	15.47
Sakamoto	13.4
Mean (SD)	15.3 (1.3)

Table 2 Energy requirements for steel production from ore concentrate via the BF-BOF route

The energy requirements reported in **Table 1** for the BF-BOF route from ore range from 29.2 to 15.7MJ/kg steel – a factor of nearly 20 (192%). This results in a high standard deviation (SD) for the mean value (21.9+/-5.1). We must also assume that all the values refer to liquid steel production but this is not stated in the Report.

The range is much more limited when considering the smaller sample of energy data starting from concentrate (**Table 2**) which vary from 16.58 to 13.4 ie 23% resulting in a mean of 15.3+/-1.3. From this the authors derive a minimum value of 14.0 MJ/kg and use this as the 'benchmark' figure.

The World Steel Association (worldsteel) in its 2008 Sustainability Report for the 2006 Fiscal Year presents an average energy intensity value of 20.6GJ/t of liquid crude steel produced (t/s). This is a weighted average for both the BF-BOF integrated steelmaking route from ore/concentrate and the EAF route using mainly scrap and is provided by 38 member companies and two industry associations (including a further 77 companies) with 70% BOF, 29% EAF and 1% OHF production route spread. Together, these companies produced 42% of the crude steel output worldwide in 2006.

Unfortunately, the worldsteel data is not broken down between the BF-BOF and EAF routes but, since, using the BIR Reports own figures, the average energy requirement for the EAF route alone is 11.7MJ/kg (see **Table 7** later) the BF-BOF contribution to the average must be greater than the worldsteel quoted average of 20.6GJ/t and may be estimated in the order of 22.3GJ/t. Thus the mean value report-

ed in **Table 1** of 21.9MJ/kg (=GJ/t) from ore is broadly acceptable but it is unclear if this figure includes energy to produce sinter. The 15.3MJ/kg from concentrate appears to exclude the energy to produce the concentrate.

Data from the US DOE and MIT provide values of 19.40 and 19.28GJ/tls (metric tonne) respectively for the BF-BOF route including the energy to make sinter and pellet (Ref 33).

The range of CO₂ emissions reported arising from the integrated BF-BOF route are presented by the BIR Report in **Table 3** which provides a mean value of 1.97tCO₂/t crude steel. This figure is higher than may be expected from the energy requirements presented in **Table 1** but is close to the 2tCO₂/t frequently quoted by the steel industry for the BF-BOF route.

Again, worldsteel do not report separate carbon footprint data for the BF-BOF and EAF routes but quote a weighted average of 1.7tCO₂/t/s using a 69% BOF, 30% EAF, 1%OH mix of production processes.

Integrated DRI route

Source	tCO ₂ /t Steel
Norgate	2.3
Orth et al	2.23
Sakamoto	2.15
Orth et al	2.14
Das and Kandpal	2.12
Gielen and Moriguchi	2
Hu et al	1.97
Orth et al	1.82
Orth et al	1.69
Wang et al	1.32
Mean (SD)	1.97

Table 3 Carbon footprint for steel production via the BF/BOF route

The BIR Report also looks at energy and CO₂ emissions for the production of Direct Reduced Iron (DRI) from ore and its melting in an electric arc furnace (EAF) as an alternative to the BF-BOF route. The report presents data for DRI production alone and for production plus melting in the EAF (**Tables 4 & 5**). Comparing **Tables 4 & 5**, the values for DRI production alone are evidently for the more common natural gas based production rather than from coal since a mean value of 11.7MJ/tls is attributed to the EAF alone (**Table 7**). The high value in **Table 5** of 36.6MJ/kg for DRI production in India from coal would relate to production in a rotary kiln.

The energy reported to be required to produce molten steel by this route is in the same order as that for the BIR average for BF-BOF route from ore of 21.9MJ/kg. Worldsteel do not provide figures of energy requirements for producing DRI but Midrex, whose DRI plants accounted for 58.2% of global production in 2008, have made extensive calculations on the carbon footprint of the DRI-EAF route for var-

Source	MJ/kg Steel
Gielen and Moriguchi	10
Phylipsen et al	10.93

Table 4 Energy requirements for DRI production

	MJ/kg Steel	Note
Das and Kandpal	36.9	DRI from Coal (India)
Das and Kandpal	24	DRI from Gas (India)
Price et al	19.2	80% DRI + 20% scrap

Table 5 Energy requirements for steel production for the DRI + EAF process

ious charge mixes covering hot DRI, cold DRI and scrap in various ratios (Fig 1) (Ref 32).

Data for the carbon footprint for the production and melting of DRI is presented by the BIR Report in Table 6 in which the mean value is 1.76tCO₂/t steel. The value of 3.31tCO₂/t for India refers to production of DRI in a coal fired kiln.

The average carbon footprint of 1.76tCO₂/t

	Carbon Footprint (tCO ₂ /t Steel)	Note
Das and Kandpal	3.31	Coal (India)
Orth et al	1.74	Coal + Circofer
Das and Kandpal	1.57	Gas
Orth et al	1.46	Gas + Circofer
Gielen and Moriguchi	0.7	Gas
Mean (SD)	1.76 (0.96)	

Table 6 Carbon footprint for steel production for the DRI + EAF steps

for the DRI + EAF route reported in Table 6 is a simple average of the data presented taking no account of the relative amounts of DRI produced by each process. In 2008, 74.3% of the global total 68.45Mt of DRI produced was by gas based processes and of this 72.7% was produced by the Midrex and HYL/Energiron shaft furnaces (Ref 33). Thus the high carbon footprint attributed to coal based production is unrepresentative of global production. Likewise, those processes quoting Circofer (a fluidised bed process) refer to a single commercial plant which has only operated intermittently since its commissioning, and a pilot plant. The DRI produced by such alternative gas based processes as this (and Fastmet) accounted for only 1.6% of global output in 2008.

Midrex reports a carbon footprint of 1.140tCO₂/t for a charge of 80% cold DRI (gas based production) plus 20% scrap to an EAF, providing an estimate of approximately 1.4tCO₂/t for a 100% DRI feed to the EAF.

Fig 1 illustrates Midrex's findings for a range of different charge conditions using the US power generation mix of: 50% coal; 18%NG, 20% Nuclear, 7% Hydro, 2% oil and 2% renewable other than hydro. Units refer to metric tonnes and DRI produced from reformed natural gas.

An independent analysis for the Multi-pollutant Emission Reduction Analysis Foundation (MERAF) for the Iron and Steel Sector by Charles E Napier Co Ltd, Canada, (September 11, 2002, p. xviii) reported by Midrex con-

cludes: 'DRI plants using natural gas as the reduction material have lower CO₂ emissions than coal-based plants... It was estimated that the BAT plant [MIDREX Plant] would emit 24% less CO₂ and at least 24% less TPM, NO_x, SO_x, and VOCs than a conventional integrated [BF-BOF] plant.'

Using the BIR Report average of 1.76tCO₂/t for the BF-BOF route a 24% reduction equates to around 1.5tCO₂/t in line with a calculated Midrex figure of 1.37tCO₂/t for 100% DRI charge (From Fig 1 80% DRI charge = 1.14 therefore 100% DRI charge equates to 1.368).

The BIR Report gives no credit for the hot charging of DRI which is increasingly being practiced and results in a power saving of approximately 20kWh/t at the EAF for each 100°C rise in charging temperature. Since a hot charging temperature in the order of 600°C is possible, a power saving of 120kWh/t is achievable. Countering this is the increased slag volume resulting when DRI is charged, but again additional positive influences of charging DRI are the ease by which it can be continuously charged through the roof so conserving energy by keeping the roof closed and also the chemical energy content due to the higher carbon content of DRI compared with a typical scrap mix.

One final point that should be made in favour of gas based DRI production is the fact that the CO₂ must be removed from the gas circuit in order that the reducing gas can be recirculated through the reactor. Thus the gas is already captured and so could be sequestered. In the Midrex process the CO₂ is recycled to the gas reformer and there is no CO₂ effluent stream. In the HYL process, some companies sell the gas as a by-product. For example, Hylsamex in Mexico supplies a carbonated drinks factory thereby removing the need to generate the gas by other means. Emirates Steel in UAE plans to sell the gas to an oil producer for injection into oil wells to increase recovery.

EAF scrap charge

The BIR Report presents the energy requirements and carbon footprints for the electric arc furnace route for production of steel from secondary sources in the following two tables: (Tables 7 & 8).

The values presented in Table 7 are all significantly higher than recognised by operators. SGL Carbon have compiled an extensive database of EAF parameters from which they conclude the energy requirements of a typical EAF with 100% scrap charge to be 703kWh/t, equating to just 2.53GJ/t. This takes into account electrical power input, chemical energy input (fuel, electrode consumption) and the energy arising from oxidation of the charge (Fe, Si, Al etc), but not the efficiencies of conversion at each stage (Table 8). When these are factored in the total energy requirement rises to

8.11GJ/tls, but still significantly lower than the 11.7 mean stated in the BIR Report.

Midrex reports a total value some 35% lower than SGL of 1447kWh/tls for 100% scrap operation taking into account a 33% generation efficiency which converts to 5.93GJ/tls (Ref 34).

The average carbon footprint of 0.70tCO₂/t steel is significantly higher than the 0.466t presented by Midrex for a 100% scrap charge (Fig 1). Midrex calculates the carbon footprint for power generation based on the DOE accepted mix for US power generation of 50% coal; 18%NG, 20% Nuclear, 7% Hydro, 2% oil and 2% renewable. In an earlier publication, (Ref 33) Midrex attributes an energy requirement of 1647kWh/t (5.93GJ/tls) for an EAF with 100% scrap charge, and assuming a 33% power generation efficiency it attributes a CO₂ emission of 0.441tCO₂/t.

In Table 9, the carbon footprint value of 1.18tCO₂/t for EAFs using 100% scrap is not consistent with the remaining data in the Table and refers to data from an Indian operation. Disregarding the value for India, the average carbon footprint drops from 0.7 to 0.58tCO₂/t which is more in line with the Midrex data of 0.466tCO₂/t presented in Fig 1.

The report presents the benchmark energy requirements for the production of steel from primary ore concentrate by the BF-BOF, by the DRI + EAF and from scrap and secondary sources via the EAF route in (Table 10).

In its summary the BIR Report uses a unit of 100kt to present its findings:

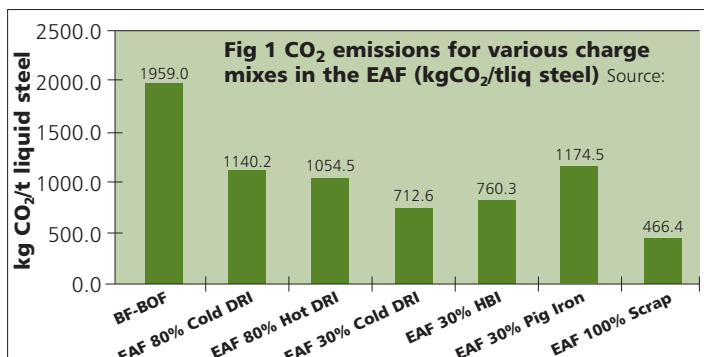
Using the benchmark data for primary and secondary steel production from delivered ore concentrate and scrap respectively, the energy requirements for the production of 100 000 tonnes of steel are:

- Energy requirement for primary production BF-BOF route: 1400TJ (14GJ/t)
- Energy requirement for primary production DRI + EAF route: 1920TJ (19.2GJ/t)
- Energy requirement for secondary production EAF route: 1170TJ (11.7GJ/t)

The authors derive the benchmark energy requirement of the BF-BOF route of 14GJ/t as the mean less the standard deviation for iron made from concentrate (Table 2). This is significantly lower than the mean they present for iron made from ore of 21.9GJ/t with a standard deviation of 5.1 (Table 1). This figure is more in

EAF Route Source	MJ/kg Steel
Das and Kandpal	14.4
Hu et al	11.8
Hu et al	11.2
Sakamoto et al	9.4
Mean (SD)	11.7 (2.1)

Table 7 Energy requirements for steel production from scrap in an EAF



	Electric Energy	Chemical Energy	Metallic charge(kWh/tls) Oxidation	Total
	385	167	151	703
Efficiency (%)	77 in EAF	32	70 (Av)	
	33 in generation			
Total	1515	522	216	2253
Conversion to Joules - 1J = 1Watt/sec so 1kWh = 3.6MJ therefore the total 2253kWh = 8.1GJ				

Table 8 Energy efficiency of a typical scrap based EAF (kWh/tls)
Source: Table derived from SGL Carbon data

Source	Carbon Footprint (tCO ₂ /t Steel)
Das and Kandpal	1.18
Wang et al	0.64
Hu et al	0.59
Sakamoto et al	0.56
Hu et al	0.54
Mean (SD)	0.70 (0.27)

Table 9 Carbon footprint for steel production from scrap in an EAF

Steel Recovery Method	Energy Requirement (MJ/kg Steel)	Carbon Footprint (tCO ₂ /t Steel)
BF/BOF Route (Mean less SD)	14	1.67
DRI + EAF Route (Benchmark)	19.2	0.7
EAF Route (Mean)	11.7	0.7

Table 10 Energy requirements for steel production by various routes

keeping with the industry's norm.

Using the energy data, the carbon footprints for primary and secondary production of steel on the same basis are:

Carbon footprint for primary production BF-BOF route: 167kt CO₂ (1.67tCO₂/t)

Carbon footprint for primary production DRI + EAF route: 70kt CO₂ (0.70 tCO₂/t)

Carbon footprint for secondary production EAF route: 70kt CO₂ (0.70 tCO₂/t).

Based on these energy figures of 14GJ/t for BF-BOF and 11.7GJ/t for the EAF route, the Report attributes the mean carbon footprint per tonne of steel to be 1.97t CO₂ for the BF-BOF route and 0.70tCO₂ for the EAF route irrespective of whether produced from scrap or DRI. This is in contrast to the energy requirements of 11.7 and 19.2GJ/t for scrap and DRI charges to the EAF respectively. As a result of this exceptionally low energy requirement attributed to the benchmark BF-BOF route the energy saving by using the EAF with a 100% scrap charge is only 2.3GJ/t or 16% of the BF-BOF route energy. The reduction in CO₂ emission is, however, a more significant 0.97tCO₂/t or 58%.

A more realistic comparison is to use the mean energy value for the BF-BOF route and the mean value for the EAF 100% scrap route presented in the BIR Report as 21.9MJ/kg (Table 1) and 11.7MJ/kg (Table 7) respectively. The saving is then 10.2MJ/kg or 46.6%.

For US operations, the DOE and MTI report energy requirements for the BF-BOF route of around 19.3GJ/t liquid steel including production of sinter and pellet in the total. The data is presented in terms of kWh/tls and a conversion factor of 277.8 is used based on an average power generation efficiency of 33% (see Ref 33). In that same paper the energy requirement for an EAF charged with 100% scrap is given as 1647kWh/tls or 5.93GJ/t. Using these values the energy saving by melting 100% scrap in the EAF is 19.3 - 5.93 = 13.41GJ/tls or 69%.

Even if we accept the BIR Report benchmark figure for EAF steelmaking of 11.7GJ/tls, and compare this to the US DOE/MTI mean for the BF-BOF route of 19.34GJ/tls the energy saved by melting scrap is more than double that predicted by the BIR Report increasing to 7.64GJ/t or 39.5%.

Carbon footprint Al vs Steel

The BIR report also compares primary and secondary production of aluminium. As with steel,

Aluminium	Max	Min	Mean	Note
Primary (Bayer &HH)*	22.4	5.48	9.11	US Av
Primary (HH)	7.7	3.83	3.83	US Av
Secondary (scrap)	0.6	0.29	0.29	Benchmark
*Bayer = refining of ore to Alumina; HH = Hall Heroult ie electrolysis stage				
Steel				
Primary BF+BOF	2.30	1.32	1.97	(SD 0.30)
Primary DRI+EAF	3.31	0.7	1.76	(SD 0.96)
Secondary (scrap)	1.18	0.54	0.70	(SD 0.27)

Table 11 Comparison of carbon footprint for production of aluminium and

some of the figures presented are not recognised as the industrial norms although the final carbon footprints reported are in general agreement with industrial findings (Table 11).

The International Aluminium Institute (IAI) in fact presents a higher average CO₂ emission figure of 9.8tCO₂/t aluminium from ore to ingot in which they take into account each stage of the process and give each a multiplication factor in line with the contributing mass required to produce a unit of aluminium (eg on average it requires 1.9t Al₂O₃ to produce one tonne of metal so the multiplication factor is 1.9). The results of this extensive review are tabulated in Table 12 (not presented in the BIR Report).

Comparing the carbon footprints of aluminium and steel, BIR concludes that primary aluminium production emits 7.14t more CO₂/t metal than steel but 0.41t CO₂/t less for the secondary route (Table 11).

The generally accepted industry figure for the BF-BOF route alone is close to 2tCO₂/t steel and the BIR carbon footprint is thus in reasonable agreement for the BF-BOF primary route for steel production and somewhat conservative for aluminium primary production accepting a mean figure of 9.11tCO₂/t some 7% lower than the IAI average of 9.8tCO₂/t.

Comparing the representative Association figures for aluminium and steel production of 9.8 and 2.0 respectively we must conclude that primary aluminium production has a carbon footprint nearly 80% greater than that of steel, but in contrast, using the BIR figures for secondary production, there is a 41% reduction in CO₂ emissions per tonne of metal produced when melting aluminium scrap compared with steel scrap.

In terms of volume production, since the density of aluminium is 2.70 and that of steel is 7.87, approximately two-thirds greater volume of aluminium results per tonne produced compared to steel. Thus by volume, the carbon footprint for primary production of aluminium reduces to 9.11 x 0.33 = 3.0tCO₂/m³ while that for steel remains 1.97tCO₂/m³ ie the difference falls to 34%. However, it should be noted that the lower yield strength and modulus of alu-

minium requires thicker sections than an equivalent section in steel to achieve the same load bearing capacity, hence replacement of steel by aluminium is not on a one for one basis.

In its report '2008 Sustainability Report of the world steel industry' the World Steel Association - whose members represent 85% of total world production - state: 'More steel is recycled worldwide annually than all other materials put together, with an estimated 459Mt being recycled in 2006, about 37% of the crude steel produced that year. Recycling this steel avoided 827Mt of CO₂ emissions, saved 868Mt of iron ore, and saved the energy equivalent of 242Mt of anthracite coal.' They also conclude that each tonne of crude steel produced on weighted average (69% BOF 30% EAF, 1%OH) emitted 1.7tCO₂. In 2006, 1.25bnt of crude steel were produced thus emitting 2.125bnt CO₂. Thus recycling of scrap resulted in a saving of 827/2125 = 38.9% of CO₂ emissions.

The significant effect on the carbon footprint of recycling scrap is evident and in addition there is a substantial reduction in CO₂ emitted due to the removal of 868Mt of ore and 242Mt of hard coal from the processing route.

In conclusion, the BIR Report highlights the large differences in mill practice worldwide that give rise to significant differences in energy consumption and carbon emissions.

Unfortunately, they then base their conclusions on simple averages of the data collected with no weighting factor for the contribution of each source to global data.

The carbon emissions relate directly to the carbon content of the energy source and the energy efficiency of the mill.

The calculated results depend greatly on the assumptions made but it should be recognised that all the carbon that comes into a steel mill leaves as CO₂, except for the tiny fraction of carbon that ends up in the steel. ■

The 'Report on the Environmental benefits of Recycling' is available from the Bureau of International Recycling (BIR), Avenue Franklin Roosevelt 24, 1050 Brussels, Belgium. Tel +32 2 627 5770 Fax +32 2 627 5773 email

	Bauxite Mining	Alumina Refining	Anode Production	Primary Smelting	Primary Casting	Total Mine to Ingot ⁽²⁾
Process(1)	0	0	402	1557	0	1763
Electricity(3)	1	64	66	5225	42	5529
Fossil Fuel	4	707	150	0	82	1530
PFCs	0	0	0	970	0	989
Total	5	771	617	7752	125	9812
Mult Factor	5.272	1.923	0.435	1.02	1.00	

Table 12 Contribution of CO₂ equivalent emissions for each stage of aluminium production (kgCO₂/t of product) Source IAI

Notes: (1) Contribution at process stage eg for Primary smelting CO₂ and CO₂ equivalents arising from net carbon consumption of anode + CO₂eq from fluoride emissions (PFCs are detailed separately)
 (2) Sum of each production stage after multiplying by its respective contributing factor
 (3) Hydro 57%, Coal 28%, Nat Gas 9%, Nuclear 5%, Oil 1%.

An alternative to carbon sequestration: Electroreduction of CO₂

Electroreduction of carbon dioxide (ERC) combines captured CO₂ with water to produce high value materials, such as formic acid – suitable for use in pickling steel – and production of formate. It can also be adapted to produce oxalic acid, methanol, and other products.

Companies adopting ERC stand to make significant profit from these products in addition to cap and trade benefits (or carbon credits) from reducing their emissions of CO₂.

THE NORTH American based Mantra Venture Group successfully completed a prototype reactor capable of processing 1kg of CO₂ per day in October 2008, and its first commercial scale pilot reactor is scheduled for completion by mid 2010.

The process was developed at the University of British Columbia's Clean Energy Research Center and is a chemical process to convert CO₂ to one of a number of useful products, starting with formate and formic acid. ERC offers an innovative solution to reduce the impact of carbon dioxide (CO₂) on the Earth's environment by converting CO₂ into materials with a broad range of commercial applications, including a fuel for a next generation of fuel cells (mixed reactant fuel cell, discussed later). It also provides an alternative to the frequently proposed sequestration of CO₂ into geological formations or on the sea bed which have unknown long term consequences. Some of Mantra's clients have made clear that they are located where the geology does not permit CCS; and the scientific community is not universally in favour of dumping CO₂ at sea.

ERC Development

Experimentation on the electroreduction of carbon dioxide has been carried out in several laboratories over many years, but in circumstances not appropriate for industrial application. The present focus on carbon dioxide and climate change has motivated work at the University of British Columbia to develop a continuous reactor with the potential to be the basis of a commercially viable process for ERC, as described in the PCT Patent Application WO2007/041872.

'Continuous co-current electrochemical reduction of carbon dioxide'. Mantra Energy Alternatives (a subsidiary of Mantra Venture Group) acquired this intellectual property in November 1997 with the prospect of developing a commercial ERC process that will help the worldwide efforts to lower carbon dioxide emissions and mitigate global warming.

In May 2008, through consultant Kemetco Research Inc, a private sector integrated science, technology and innovation company, Mantra established a research and development facility for the ERC in Vancouver, British Columbia, staffed by a dedicated research team. To date Mantra has financed and com-

menced a development programme that saw the construction of a scaled down industrial grade ERC test reactor in September 2008, followed in 2009 by testing to prepare the ERC for pilot scale (1 tonne of CO₂ per day) commercial trials. Detailed negotiations for this are underway. Mantra is also establishing relationships with major industrial partners to pair the ERC with complimentary technologies and applications. Within a four to five year period, it expects to progress from pilot scale trials to the implementation of full scale commercial ERC reactor capable of processing 100 to 500t of CO₂ per day.

The process

Powered by electricity, ERC combines captured carbon dioxide (from flue gas) with water to produce high value materials, such as formic acid, formate salts, ammonium formate, oxalic acid or methanol, that are conventionally obtained from the thermochemical processing of fossil fuels. However, ERC has the advantage over the established thermochemical methods for converting carbon dioxide to liquid fuels. While thermochemical reactions must be driven at relatively high temperatures that are normally obtained by burning fossil fuels, ERC operates at near ambient temperatures and is driven by electric energy that can be taken from an electric power grid supplied by hydro, wind, solar or nuclear energy. The product, formic acid, has a negative carbon balance and will qualify for carbon credits.

Following an important breakthrough, power requirements have fallen 25% to 5MWh/t of formate produced.

Formic acid in pickling

If the ERC process is both economic and successful, it is likely to be widely accepted as a way for industry to deal with exhaust gases. Mantra are using a proprietary process to capture CO₂ that is being patented; it is capable of dealing with industrial flue gases.

There arises the danger of overproduction of formic acid that is in excess of market demand. (The current world market is modest – measured in hundreds of thousands of tonnes annually). This would limit the value of the product and might act as a barrier to the wider spread of

an otherwise valuable technology. Thus it is useful to anticipate the issue and look beyond the current market to ask if there are future applications that can take up a much larger volume of formic acid. This question quickly becomes: can formic acid (the strongest of the organic acids) replace the use of strong acids such as hydrochloric (HCl) and sulphuric (H₂SO₄) in such applications as pickling hot rolled steel? Formic acid is much more environmentally friendly than either of these two acids.

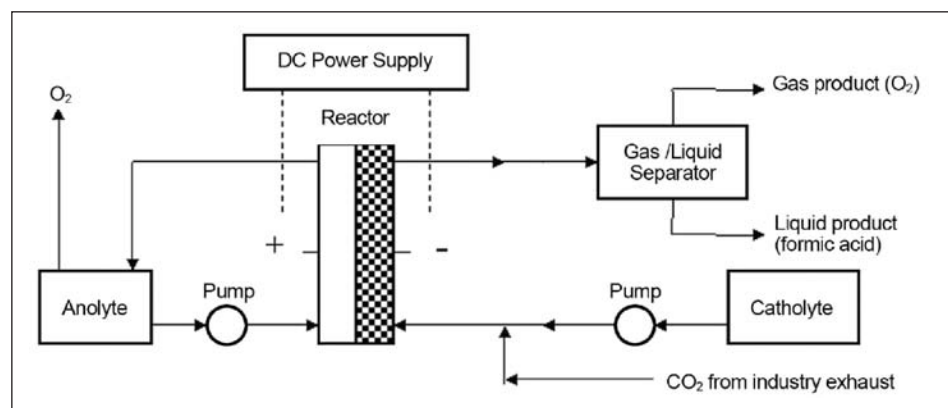
One of the largest uses today of hydrochloric acid is in pickling hot rolled steel strip. 25% of all HCl consumed in the USA is used in pickling steel equating to some 5Mt/y. Formic acid is potentially more attractive in this application than HCl because:

- It gives a better surface quality (HCl is an aggressive acid and can pit the steel);
- Less iron is lost from the steel surface;
- Less rinse water is needed after pickling;
- No neutralising rinse is required with formic acid whereas a caustic rinse is necessary to neutralise the HCl;
- Corrosion inhibitors are not required to reduce the amount of etching of the steel;
- HCl is so aggressive that the surrounding plant equipment becomes rapidly corroded; use of formic acid will result in a longer plant life;
- Formic acid is bio-degradable;
- Formic acid can be reconcentrated and reused from the aqueous spent solution;
- Precipitated iron formate can be recycled back into the blast furnace to recover iron that was etched from the pickling operation;
- Process water can be recycled more easily.

ERC also produces oxygen as a by-product. Oxygen can be used in the blast furnace where it improves combustion, or in a DRI unit to improve productivity. An ERC plant treating just 0.8% (258t/d) of the CO₂ emitted by a 13kt/d steelplant (emitting 30kt/day CO₂) would produce 94t/d of O₂ and 270t/d of formic acid sufficient to run the pickling line. As a by-product of pickling, 427t of ferrous formate would result per day which could be separated from solution and recycled to the blast furnace.

Other markets

Existing applications of primary ERC products



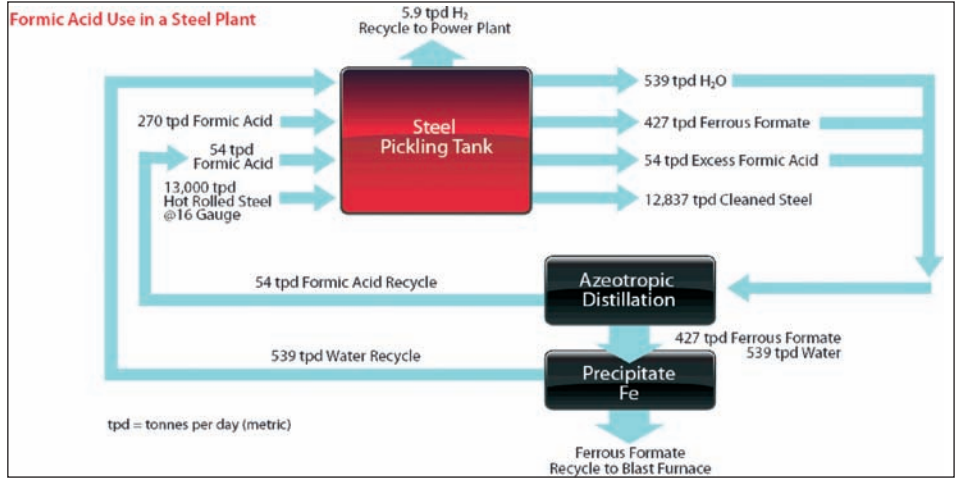
Schematic flow diagram of ERC

include feedstock preservatives, de-icing solutions, and baking soda, to name a few. Odium formate and formic acid currently have a market value of around \$1440/t. More than 600kt/y of formic acid is produced annually with BASF as the largest producer and world marketer. Formic acid has other uses including: cleaning purposes, de-icing of planes and runways, as a precursor chemical in making agricultural and other finished chemicals. Another product, sodium bicarbonate has a market value of \$500/t.

Another possible product, ammonium formate, is being investigated by oil refiners as a fuel additive to diesel where it reduces NOx emissions. It has shown great promise in tests and is likely to be adopted, which would open up a worldwide market. The ERC process can be adapted to produce ammonium formate.

Fuel cells are another potential application for ERC. In fuel cells liquid fuels are indirectly combined with oxygen to provide power, waste products are carbon dioxide and water. This process is known as electro-oxidation. The complimentary nature of ERC and electro-oxidation makes it possible to use ERC in a regenerative fuel cell cycle, where carbon dioxide is converted to a fuel that is consumed in a fuel cell. Mantra is now developing the MRFC (mixed reactant fuel cell) which will be fuelled by formate or formic acid. The net energy input required in this cycle could be supplied from a renewable or non-fossil fuel source. Wherever possible off-peak renewable power will be used.

For further information visit www.mantraenergy.com/projects/co2-conversion.html



Material balance for the use of formic acid in pickling

About Mantra

The goal of Mantra is to bridge the gap between innovation and investment by aggressively seeking out and incubating clean tech innovations and renewable energy solutions. Mantra's competitive advantage lies in its ability to flexibly pair together investment and scientific expertise to guide promising new technologies through development and into the market.

Based in the Pacific Northwest, a hot-bed of Green Tech innovation, management has already been successful in acquiring the rights to two revolutionary sustainable technologies: the Electroreduction of Carbon Dioxide (ERC), and the Mixed Reactant Fuel Cell (MRFC)

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NZ pilot plant processes gas to ethanol

The use of ethanol as a fuel in road transport has been advocated as a means of mitigating CO₂ emissions but has led to escalating food costs as maize and land is given over to its industrial production by fermentation. Microbial fermentation of the converter gas from steelmaking offers an alternative source of bulk supply.

THE MICROBIAL fermentation of converter waste gases to produce ethanol and other chemicals has been successfully demonstrated for over a year at a pilot plant in New Zealand.

Such a process has never been attempted before because of the concerns that contaminants in the flue gas would inhibit the conversion of the CO in the gas to ethanol. The proprietary microbe developed and owned by LanzaTech was selected based on its ability to produce ethanol from carbon monoxide without being adversely affected by the N₂ and CO₂ also present in the gas. Only dust and any remaining O₂ need be removed.

Dr Sean Simpson, cofounder of LanzaTech says the pilot plant at New Zealand Steel, Glenbrook, near Auckland has operated for over 2500 hours and continuously for over 500 hours. This demonstrates the potential for processing converter-off gas into commercial quantities of ethanol.

The NZ Steel flue gas pilot plant, commissioned in 2008, is demonstrating the potential for processing the industrial waste gas stream. With a 1000 litre fermenter capacity, the Glenbrook plant draws gas directly from the steelmaking converter off-gas stream and, with minimal cleanup to remove particulates and oxygen, processes the gas to ethanol.

Through the production of ethanol LanzaTech are able to not only sequester carbon in fuels and chemicals, which displace equivalent products produced from fossil resources, but also generate more than twice the revenue per volume of steel mill gas processed.

Practical concerns

The process copes well with the varying concentration of CO in converter gas which fluctuates as steelmaking proceeds. The pilot plant has been running for 12 months using such a mixed output from steelmaking without the variability of this gas stream posing any issue for the process in terms of productivity per unit energy in gas (eg per Giga Joule of gas processed).

The process can work with gas streams that contain as little as 15% CO, therefore even blast furnace gas presents a viable feedstock for the process. Converter gas typically averages 40-50% CO with 1-2% H₂, the remainder being N₂ and CO₂.

The N₂ and CO₂ components in the gas create no problems, only the removal of dust from the gas stream is necessary. The microbes are tolerant of all gas components of the converter stream.

In the total absence of hydrogen as is (effec-

tively) the case with converter off-gas, the microbes generate their own hydrogen via a biological water gas shift reaction. This reaction releases some CO₂. However, with increasing levels of hydrogen in the gas the CO₂ emission is eliminated, and all input carbon is captured in the product stream.

LanzaTech's continuous fermentation of raw steel mill gas has shown no impact on microbial viability, growth or productivity when compared to a synthetic gas equivalent. This virtually eliminates capital cost associated with gas conditioning which is a major advantage over existing gas-to-liquid conversion technologies.

Alternative gas sources

In addition to blast furnace gas, biomass syngas is an alternative supply source. This is generally a mixture of CO and H₂ at various ratios depending on the gasification technology used. However LanzaTech is able to reform the methane component of biogas produced in high volumes such as from the bacterial digestion of land-fill and other organic waste material. In this case a reformer is necessary to produce a stream of CO and H₂ from the methane component in the biogas.

Why Ethanol?

The Bush administration set a goal of 35bn US gallons of ethanol production per year by 2022. The Obama administration has reduced this to 21bn gallons. Most of this is from corn (maize) and has already led to escalating costs for food from this crop particularly in countries relying on export of maize from USA.

In 2008, the US production figure for ethanol was over 8bn US gallons as many farmers took advantage of a \$0.54/gallon subsidy and a tariff protection from Brazilian ethanol of \$0.51. As ethanol has 35% less energy than gasoline, 8bn gallons has the equivalent energy of about 0.4 million barrels of oil a day (MMB/D) but requires a land area of about 34000 square miles to grow the corn.

Over 100 plants now produce ethanol in the



The microbes developed for the fermentation of CO to ethanol in converter waste gas are tolerant to variable concentrations of CO and the presence of N₂ and H₂

US and another 75 were planned or under construction in 2008.

Brazil adopted a programme of bio ethanol production in the 1970s when the first oil embargoes occurred; all their vehicles can now use either gasoline or ethanol. They have the advantage that the conversion of sugar cane to alcohol is much cheaper than the use of corn as a feedstock, where the starch to sugar step must first occur.

Today, most gasoline contains about 3% ethanol now that lead compounds have been removed, and this is the current primary market for ethanol.

An 85% blend of ethanol and gasoline (E85) is also marketed on a limited scale but since the energy from ethanol (35% oxygen by weight) is only 66% that of gasoline the miles per gallon for E85 falls by around 25%.

E85 can only be used in vehicles designed for that fuel, although such vehicles can use regular gasoline. In USA, there are only a limited number of service stations dispensing E85 (<1%) and this, coupled with the higher cost per mile, deters motorists from using E85.

In addition, ethanol is corrosive and must be transported by truck. In the US, since the Midwest is the primary producer, ethanol in the South and West is expensive.

Finally, for ethanol produced from corn, the net CO₂ savings per gallon of ethanol (fertilising, harvesting, producing, transporting) may be marginal relative to the use of hydrocarbon oils. ■

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LanzaTech Ltd

The potential of the LanzaTech process was identified in 2005 and 'angel' investors were found to finance the commercialisation of its proprietary low-cost fuel synthesis process in an industrial facility.

A 'Series A' investment by a consortium led by Vinod Khosla (founding CEO of Sun Microsystems and who is now a venture capitalist with an eye for world leading clean technology) expanded the development to include biomass-derived syngas.

LanzaTech has collected the 'Green Technology Innovator of the Year' award at the annual Frost and Sullivan Asia Pacific Industrial Technologies Awards in Singapore. These awards are considered a measure not only of the current market, but also of emerging technology trends in chemicals, materials and foods, measurement and instrumentation, industrial process control, environment and building technologies and electronics and security as well as energy and power systems.

The 'Why Ethanol' section is taken from publications by the late Dr John Stubbles

Co-operative projects in the steelplant supply chain: a plate mill example

This article is about technical co-operation in the steelplant equipment supply chain. The example concerns a plate mill, but the same general principles apply to process development in all parts of the steelmaking process.

By M Brammer* & G Garfitt**

THE usual message of the plant builder is that capital investment in new steelplant technology soon generates a return for its owner in terms of increased efficiency and product quality. However, with the whole industry enduring the same economic conditions at the moment, few will be persuaded to spend a lot of money even if it is to recoup more on the long term. A more appropriate emphasis today is to consider the technology base we share, and what is being achieved through co-operative work to optimise it. This common base is only partly manifest in manufacturing assets and control systems. The rest resides in people and their collective knowledge. Moreover, the exploitation of the common technology base does not require the secret knowledge of highly-specialised organisations but rather the shared knowledge and skills of cross-business teams.

One of the most recent European beneficiaries of a plate mill upgrade is DanSteel A/S at Frederiksvaerk in Denmark. Their co-operation with Siemens VAI's process control experts is described in this article.

DanSteel project overview

Following DanSteel's invitation at the beginning of 2006, Siemens VAI's process specialists initiated a mill study covering all aspects of the rolling process including mechanical, electrical/automation and process areas. A report was presented and from the study's conclusions and in consultation with Siemens VAI, the mill operator decided to carry out mechanical reconditioning work on the mill stand and to replace the existing automatic gauge control (AGC) system with a modern digital controller. The existing analogue AGC operated with roll load cylinders via a grease-filled hydraulic intensifier. Although nearly all new AGC installations incorporate oil-based hydraulics, the plate mill application is one in which the relatively limited response of a grease-based system nonetheless provides adequate performance.

It was mutually agreed that a replacement of the grease-based system was unnecessary and wasteful, so the new AGC was designed to continue the use of these cylinders, but with modifications to allow direct position measurement of the roll load cylinder extension using digital position transducers.

The modification of the cylinders and the



Siemens VAI and DanSteel consider that the plate mill upgrade project has been a success and demonstrates the benefits of co-operative working

installation of the replacement AGC were phased in such a way as to use as much scheduled mill down time as possible. The result of this preparatory work was that the final switch over and commissioning of the replacement AGC system was carried out over a four shift period during early November 2007, with final acceptance four weeks later.

Study phase

The mill study had three main objectives. Two were related to the condition of the mechanical equipment and the third related to the overall process. The first was an alignment study evaluating the condition of the mill and roll assemblies and checking the tolerances of the equipment in line with the as designed drawings, with a view to identifying any necessary refurbishment. This was performed by a joint Siemens DanSteel team during two mill shutdowns, with work rolls and backup rolls removed. In the second shutdown, the housing liners were also removed to allow the alignment and condition of the housings to be checked. The alignment study identified 12 areas requiring rectification or remediation, of which eight were deemed to be of high priority.

The second objective was a mechanical study considering the existing condition of the mechanical and fluids equipment in the mill line. This sought to locate potential repairs and modifications that would improve the performance of the equipment, and included a structural integrity analysis of key components aimed at quantifying the duty envelope of the mill, the components that constrained it and the headroom for duty increase through selective modifications. Again, the site elements of the study were conducted by a joint team and the engineering elements were carried out

in Sheffield, UK by the Siemens VAI project engineers. The fluid systems were found to be well specified and in very good order and as a result only minor recommendations were made in this area. For the mill area, 10 recommendations were made, ranging from material types used for wear plates to the design of balance cylinders.

The Structural Integrity Analysis used three main methods; Strain Life Prediction, Damage Tolerance Analysis and Fatigue Life. Previous experience of mill design and prior studies have identified the components / areas of components that are most critical, but the analysis also considers components which have been prone to failure in the past or which may be unusual in their design.

In this case the analysis focused on the Drive Train and the Mill Stand. The main components of the Drive Train were considered; spindle shaft, motor end and roll end couplings, taper sleeve mountings and work rolls. For the mill stand, the housings, screw and nut, work roll and backup roll chocks and backup roll were analysed. The figure below is an example of the results of the Damage Tolerance Analysis that was carried out on the mill end coupling jaw.

The Structural Integrity Analysis identified eight areas where modifications to equipment would lead to improvements in either capacity or damage tolerance.

The third and process-related objective was a study covering both the mill area and the shear line, with a view to identifying yield and quality improvements, which included reviews of operating practices, reviews of production and rolling schedules, an evaluation of rolling strategies and audits of product tolerances and mill throughput. The Process Study involved a

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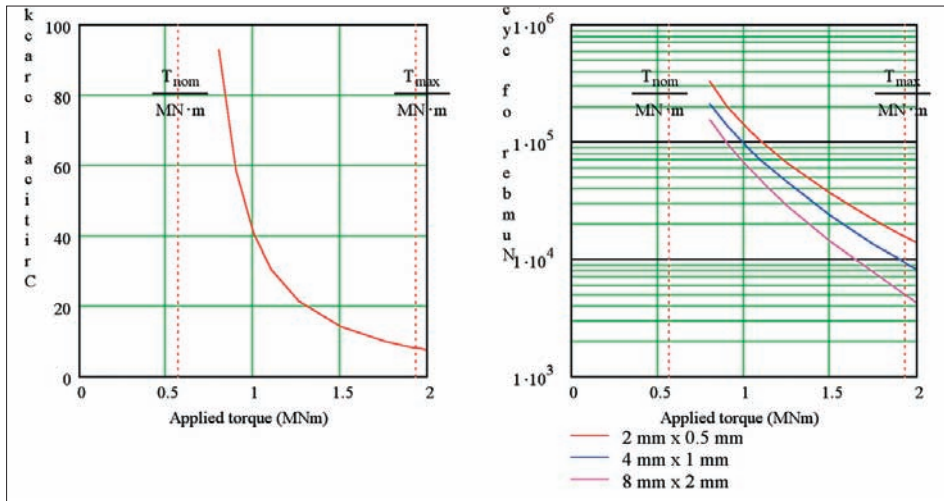


Fig 1 Graphs showing critical defect depth and life from a range of initial defect sizes to fracture as a function of the applied torque

period of on-site observation of production, combined with office based analysis and calculations. Operation of the line from reheat furnaces through to plate inspection was reviewed and observations made regarding the operating practices where appropriate. The process study focused in detail on the quality of the product leaving the mill and the performance of the mill itself. Several potential problem areas were identified, including plate turn up, AGC cylinder response time, AGC control performance, average and in-plate thickness deviation and the approach taken to production scheduling. Offline, the throughput of the line was analysed for the current product mix. This analysis identified the reheat furnaces as the main production bottleneck. The analysis was taken further to estimate the optimum increase in furnace capacity and the resultant increase in production that could be achieved.

The Process Study resulted in 15 recommendations, with several of these focused on improving the quality and consistency of material off the mill.

Implementation Phase

The study as a whole resulted in over 50 recommendations, ranging from rectification

work of mechanical equipment through to replacement of major items of equipment. After review by the mill operator, those recommendations deemed critical or most beneficial were acted upon quickly, with the remaining items forming part of the future roadmap for the plant. Most of the work has now been completed, some of it with support from Siemens VAI's Metallurgical Services team who specialises in mill maintenance and small capital projects. This work mainly concerned mill housing rectification activities identified in the Alignment Study. In addition, recommended actions concerning the improvement of AGC system performance led to DanSteel's decision to modernise the system.

The reasons for this decision were a range of problems with the original system. As can be seen from Fig 2, the step responses of the two AGC cylinders, one on the drive side and one on the operator side of the mill, were very different.

The original AGC system did not allow the AGC cylinders to be moved to level the mill during the automatic calibration sequence, therefore making levelling of the mill difficult.

In addition, the DanSteel AGC lacked several features of modern systems. The

calibration sequence did not calculate the stack friction for each calibration. This feature, where implemented, allows the operator/engineer to monitor the friction levels and thereby to assess window condition. The working position of the AGC cylinders was also fixed, leading to localised wear. It is preferable to modify this datum at each calibration, spreading the wear in the cylinder bore along the full stroke of the cylinder.

The age of the system also meant that the detailed knowledge to carry out these modifications was not available, and in some of the cases would involve major changes and rewiring of the system, specifically for the modifications to the calibration sequence. This coupled with the difficulty in obtaining spare parts as well as reliability issues prompted the mill operator to acquire a modern microprocessor based AGC system.

Original AGC system

Gap control at DanSteel was performed using a hard-wired, analogue system. The interface between the level 2 computer and the AGC system was via a PLC, which communicated to the Level 2 control via Ethernet, and to the AGC with analogue references. Finally the AGC system interfaced to the mill PLC/operator controls via a system of hardwired relays.

The roll gap was controlled through a set of Sermes grease-based actuators. The Sermes system comprises three components, servo-valve based 240 bar hydraulic system, an intensifier cylinder and a grease based roll load cylinder. The servo hydraulic system is used to control the position of the intensifier cylinder which interconnects the servo hydraulic and grease systems. Due to the difference in area between the grease and hydraulic sides of the intensifier cylinder, it amplifies the pressure generated by the servo hydraulics into the grease roll load cylinder by a factor of two. This amplified pressure on the grease cylinder allows a larger rolling force to be generated than is possible using a 240 bar servo hydraulic systems in the same diameter cylinders.

The interface between the AGC system and

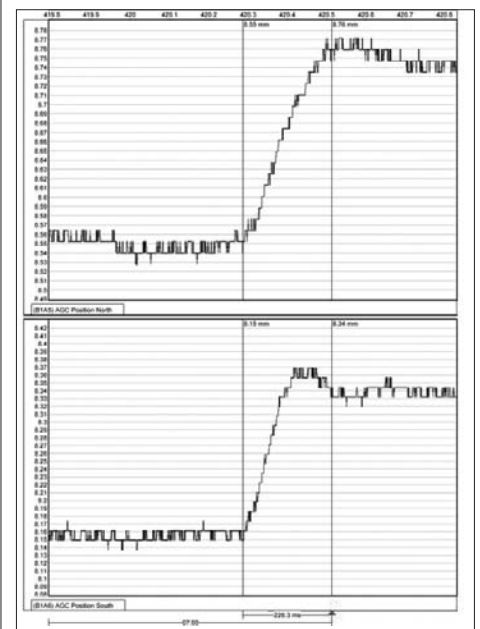


Fig 2 Difference in step response between the two AGC cylinders on drive side and operator side of the mill

the Sermes cylinders was of a similar age to the original AGC system. The servo hydraulic system utilised 3-stage servo valves with separate conditioning electronics for the 3rd stage position control loop. The grease system pressures were measured using 600 bar pressure transducers, again with off board electronics. The cylinder position was interpolated from the intensifier position, which was measured with an ALLT position transducer.

During the design stage for the AGC system it was realised that the control response would be limited not by the roll load cylinders but by the control valves and transducers on the Sermes cylinders. As a result it was decided that the interface to the Sermes system should be updated at the same time as the AGC system.

New AGC

There were ultimately modifications to the Sermes system in four areas.

- Replacement of the servo-hydraulic system servo valves with modern three-stage servo valves. This also had the advantage of replacing the off board conditioning electronics which were placed about 20 metres from the servo valves and required constant adjustment of the 3rd stage control loop. The modern three-stage valve utilises on-board electronics which require no adjustment.
- Replacement of the pressure transducers with modern pressure transducers. The original pressure transducers again used the same remote off board electronics and demanded a similar degree of continuous maintenance. The replacement transducers again use on board electronics, requiring no adjustment.
- Replacement of the intensifier ALLT position transducer with a more modern version, with an SSI interface to provide a digital position signal to the replacement AGC system.
- New Sony Digital position transducers mounted so as to give a direct and accurate measurement of the roll load cylinder position, to be used as the primary position measurement system for the new AGC system. These items were specifically designed to fit the existing cylinders.

Since the changes required alterations to the Sermes roll load cylinder unit, they were carried out offline on a spare unit ready for installation with the replacement AGC system. The electrical interfaces to the servo-valves and pressure transducers were kept the same for the new items to allow an updated set of cylinders to be installed into the mill and controlled by the existing AGC system as part of the installation.

The new control architecture was based on Simatic TDC hardware and the Simatic PCS 7 engineering system. Simatic TDC is a VME rack based platform which can accommodate up to 21 processor or I/O modules. Distributed peripherals are coupled to the TDC via the Profibus DP interface. TCP/IP interfaces are available allowing several Simatic stations, third-party systems and host computers to be networked together. The application software developed for the project was based on the Siemens Siroll plate mill solution.

Simatic PCS7 is an integrated engineering system providing a graphical based programming platform. Its use means that the development platform is eventually usable by the mill technicians, with commissioning and

maintenance being carried out from the graphical interface of the engineering system. A TCP/IP connection provides access to all of the CPU modules in the TDC rack. An online test mode is provided which allows parameters to be changed (eg gain factors) and new blocks inserted/removed online without re-compiling or rebooting.

An integrated HMI was designed by DanSteel and implemented by Siemens, replacing the hardwired displays presenting all the rolling information in an easily readable format. As far as possible, the existing operator control functions were retained, reducing the time required for the operators to familiarise themselves with the new system.

The interface to the existing mill master system was also retained, with the relay logic of the original AGC system being implemented in software in the replacement AGC to read a digital input or to drive a digital output. Bespoke Profibus distributed I/O nodes were engineered to carry out these functions, allowing the I/O to be placed locally in the mill master and PLC systems, limiting the new cabling to within the PLC/mill master.

Project management

The project timescale from initial order of the replacement AGC system to final acceptance was just seven months. The order for the replacement items for the Sermes interface occurred two months into the original contract, so the design and manufacturing of these items, including bespoke position transducers, was carried out in only four months.

The AGC system was installed and powered up during normal production. Plant installation and cabling was then carried out over four short shutdowns, over a four week period, each lasting one day with final installation occurring during a 40 hour shutdown during an extended maintenance period.

Shutdown one was used to install mill housing junction boxes for connecting the new Sermes interface and the associated site cabling. Shutdown two allowed DanSteel to switch in a spare Sermes unit that had updated servo valves and pressure transducers as well as new Sony position transducers. The intensifier position transducer was unchanged, and as the interface to the new items was unchanged, this unit was connected to the existing AGC system with little modification and was used for rolling until the final shutdown when the replacement AGC was switched online.

During the third shutdown control of the servo valves and pressure transducers were switched to the new AGC system to allow initial movement checks to be carried out using the new AGC system. Shutdown four was dedicated to testing the interfaces to the Level 2 system, via the screwdown PLC, and also to the mill master system. To facilitate easy switch over these signals had been wired to a batch of switchable terminals allowing easy change over between the old and new AGC systems.

The final changeover from the original to the replacement AGC system was carried out over a five shift (40 hour) period, with the mill entering production at the end of this time.

Benefits

The new AGC system brings benefits in terms of ease of maintenance and reliability, with the drift-proofing inherent in digital systems and with fault-finding and tuning tools built in. The levelling and wear dispersal features described

earlier are also incorporated. A dedicated hysteresis test is part of the system allowing the effect of stack friction to be monitored easily. Different mill stretch coefficients for each side of the mill can now be catered for although, as mentioned earlier, the difficulty in modifying the level 2 system has inhibited the use of this facility.

The main benefit expected from the installation of a modern AGC system, however, is better gauge performance off the mill, leading to product yield improvement.

The mill study highlighted the gauge performance of the mill prior to the installation of the replacement AGC. None of the measurements approached the industry-typical 2 sigma tolerance for any of the thickness ranges (Table 1).

The results from the performance trials for

Thickness Range (mm)	Typical Tolerance (2 Sigma)	Actual Gauge (2 Sigma) within
5 to 8	0.11	0.00
8 to 15	0.13	5.18
15 to 25	0.15	3.50

Table 1 Gauge tolerances prior to AGC upgrade

the replacement AGC show a significant improvement in gauge performance with all measurements significantly within the 2 sigma tolerance in all thickness ranges (Table 2).

While these figure show a significant

Thickness Range (mm)	Typical Tolerance (2 Sigma)	Actual Gauge (2 Sigma)
5 to 8	0.11	0.062
8 to 15	0.13	0.100
15 to 25	0.15	0.150
25 to 40	0.18	0.172

Table 2 Gauge tolerances following AGC upgrade

improvement in gauge performance, it is expected that further improvements in both in-bar and absolute gauge could be obtained, especially for the thicker products, by installation of a modern level 2 controller with an adaptive roll force model.

Concluding remarks

Both Siemens VAI and DanSteel consider that the plate mill upgrade project has been a success and a good demonstration of the possibilities and benefits of co-operative working. There is no doubt, for example, that a wholesale replacement of the AGC system would have taken longer and cost more, and though it would have yielded even better gauge performance then this would have been in excess of DanSteel's needs. The co-operative spirit of the project bodes well for future projects together. ■

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Tianjin (Beijing), China
conference@smr.at
www.smr.at/dls/tianjin_speakers.pdf

31-02 June BIR WORLD Recycling Convention & Exhibition
Istanbul, Turkey
bir@bir.org
www.bir.org

JUNE 2010

01-03 Surface Engineering Ukraine 2010
Kiev, Ukraine
www.weldexpo.com.ua

02-03 SBB Steel Markets Europe
Antwerp, Belgium
events@steelbb.com
www.steelbb.com

03 2nd Stainless Steel Seminar
Antwerp, Belgium
www.steelbb.com/stainless10

08-10 3rd North African Steel Conference
Cairo, Egypt
www.metabulletin.com/events

22-23 SMEA Conference and Exhibition
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23-26 11th China International Stainless Steel Exhibition
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www.julang.com.cn/english/buxiugang.index.asp

29-30 Building a Nuclear Future
Leeds, UK
www.namtec.co.uk

JULY 2010

18-20 1ST UK-China Steel Research Forum
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www.uk-china-steel.net

19-21 Latin American Iron & Steel Trends
Rio de Janeiro, Brazil
www.laironsteeltrends.com

AUGUST 2010

06-07 5th International Iron and Steelmaking Conference
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10-11 Rolling Steel Long Products
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SEPTEMBER 2010

06 Ironmaking in Blast Furnaces
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www.steeltech.india.com

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15-17 10th International Conference on Steel Rolling
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icsr10@csm.org.com
www.hy.csm.cn/icsr10/en

21-23 2010 CISSIE – 2nd China International Special Steel Industry
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syc@pilatus-co.info
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22-24 Asian Steel Packaging Conference

Kuala Lumpur, Malaysia
nicola.coslett@crugroup.com
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OCTOBER 2010

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www.metallon.com.ar

12-14 Parts2clean
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www.parts2clean.com

12-14 Corsave
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www.corsave.com

17-20 2nd International Conference Super High Strength Steels
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aim@aimnet.it
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24-26 ILAFA 2010
Buenos Aires, Argentina
ilafa@ilafa.org
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26-30 EuroBLECH 2010
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NOVEMBER 2010

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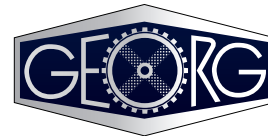
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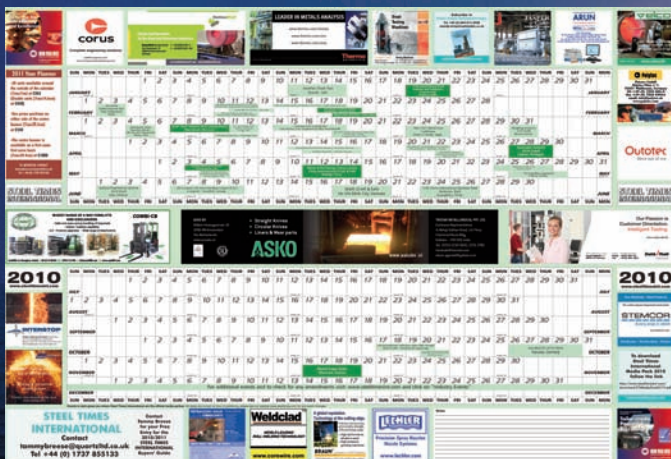
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Danieli & C. Officine Meccaniche Spa
Interstop Flow Control Technology
RHI AG
Sadaf Steel (India) Pvt Ltd
STS S.R.L.
Technical Weighing Services Inc

Marking Equipment

Ajoy Chemical Industries
Concast AG
Durable Mecco
Hypertherm Europe BV

IML Labels & Systems Ltd

Magnemag A/S
Pannier Corp
Sadaf Steel (India) Pvt Ltd
Sohar Steel L.L.C

Metal Flow Control

Danieli & C. Officine Meccaniche Spa
Interstop Flow Control Technology
Joneja Bright Steels Pvt Ltd
Precimeter Control AB
Refratechnik Steel GmbH
RHI AG
Sadaf Steel (India) Pvt Ltd
Sentech Precimeter Inc
Sert Metal
Shenyang Rustproof Packaging Material Co., Ltd
VÚHÍ a.s.

CONTINUOUS CASTING

Bar & Rod Machines

Arcelor Mittal
M+M Greaves (Machinery)
Polypipes Ltd
Sadaf Steel (India) Pvt Ltd
STS S.R.L.

Billet Machines

Arcelor Mittal
Association For Iron & Steel Technology (AIST)
Casey Equipment Corp
Concast AG
Corus Process Engineering
Danieli & C. Officine Meccaniche Spa
Inteco Special Melting Technologies GmbH
Interstop Flow Control Technology
JP Steel Plantech Co
LASE GmbH Industrielle
Lasertechnik
M+M Greaves (Machinery)
Polypipes Ltd
Reed Machinery
Revas Technologies SpA

26 years of STS

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Customer Tailored Solutions for COMPLETE STEEL PLANTS

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STS STS s.r.l.
Viale del Ledra 56,
33100 UDINE – ITALY

Phone: +39 0432 545502
Fax: +39 0432 545638
Web site: www.sts-cast.it • www.stssrl.com
E mail: sts@sts-cast.it • sts@stssrl.com

CLASSIFIED LISTINGS

Moulds

Concast AG
 Corus Process Engineering
 Danieli & C. Officine Meccaniche Spa
 Drennan (Shanghai) Company Ltd
 Electronic Development Labs, In
 Revas Technologies SpA
 Rio Tinto Minerals
 Saar-Metallwerke GmbH
 Sadaf Steel (India) Pvt Ltd
 STS S.R.L.
 Technical Weighing Services Inc

Moulding Lines

Shenyang Rustproof Packaging
 Material Co., Ltd

Refurbishment

Corus Process Engineering
 Danieli & C. Officine Meccaniche Spa
 DavyMarkham Limited
 Jasper
 Revas Technologies SpA
 Sadaf Steel (India) Pvt Ltd

Roll Welding

Corewire Limited

Roll Welding Machines

Corewire Limited

Slab Machines

Association For Iron & Steel
 Technology (AIST)
 Casey Equipment Corp
 Corus Process Engineering
 Danieli & C. Officine Meccaniche Spa
 Inteco Special Melting Technologies
 GmbH

Interstop Flow Control Technology
 JP Steel Plantech Co
 LASE GmbH Industrielle
 Lasertechnik
 M+M Greaves (Machinery)
 Revas Technologies SpA
 RHI AG
 Sadaf Steel (India) Pvt Ltd
 Sarclad Ltd
 Siemens VAI Metals GmbH & Co

Spray Nozzles (Caster)

Canamar Technologies Inc
 Corus Process Engineering
 Lechler GmbH
 Lechler Ltd
 Sadaf Steel (India) Pvt Ltd
 STS S.R.L.

Strip Casters

Asko Inc
 HE Phipps Co Inc
 M+M Greaves (Machinery)
 Sadaf Steel (India) Pvt Ltd
 Shenyang Rustproof Packaging
 Material Co., Ltd

Thin Slab & Strip Machines

Arinox SpA
 BachKnives, Division Of Hermanite
 Corp
 Danieli & C. Officine Meccaniche
 Spa
 HE Phipps Co Inc
 RHI AG
 Sadaf Steel (India) Pvt Ltd
 Sarclad Ltd

Tundish Heating Systems

Fives North American Combustion
 Inc

Fives North American Combustion
 UK Ltd
 Inteco Special Melting Technologies
 GmbH
 Sadaf Steel (India) Pvt Ltd
 SMS Mevac GmbH
 Tetronics Ltd

Tundishes

Ajoy Chemical Industries
 Cone Drive Textron
 Corus Process Engineering
 Danieli & C. Officine Meccaniche
 Spa
 Fives North American Combustion
 Inc
 Fives North American Combustion
 UK Ltd
 Interstop Flow Control Technology
 Joneja Bright Steels Pvt Ltd
 Revas Technologies SpA
 RHI AG
 Sadaf Steel (India) Pvt Ltd
 Sohar Steel L.L.C
 STS S.R.L.
 Technical Weighing Services Inc

Vertical Machines

Concast AG
 Cone Drive Textron
 Corus Process Engineering
 Danieli & C. Officine Meccaniche
 Spa
 Inteco Special Melting Technologies
 GmbH
 Sadaf Steel (India) Pvt Ltd
 STS S.R.L.

Water Treatment Plant

CMI UVK GmbH
 Corus Process Engineering

Danieli & C. Officine Meccaniche
 Spa
 Rio Tinto Minerals
 S.T.S. Services S.R.L. Unipersonale
 Sadaf Steel (India) Pvt Ltd
 STS S.R.L.

FORGING

Die Lubrication Equipment

Canamar Technologies Inc

Die Repairs

Corewire Limited

Die Welding Machines

Corewire Limited

Forging Furniture Repairs

Corewire Limited

Forging Hammers

Lasco Umformtechnik GmbH
 M+M Greaves (Machinery)
 Pearson Panke Limited
 Presstrade Handelsgesellschaft
 mbH
 Sadaf Steel (India) Pvt Ltd
 TrueForge Global Machinery Corp.

Forging Manipulators

Danieli & C. Officine Meccaniche
 Spa
 Henschel Industrietechnik
 Handlingsystems GmbH
 (ANDROMAT)
 Lasco Umformtechnik GmbH
 M+M Greaves (Machinery)
 Müller Weingarten AG
 Pearson Panke Limited
 Presstrade Handelsgesellschaft
 mbH



CAN-ENG FURNACES

Continuous Long Product Heat Treatment Systems



Compact Layout
Excellent Mechanical Properties
High Yield
Uniform Straightness

Can-Eng systems reduce work in process inventory and costs, as well as, improve lead times and quality. To learn more about Can-Eng Furnaces' engineering, design and manufacturing capabilities visit www.can-eng.com or e-mail Mike Klauck at mklauck@can-eng.com

QUENCH AND TEMPER — TUBE, BAR, PLATE
BRIGHT ANNEALING — CARBON ALLOY, STAINLESS



P.O. Box 235, Niagara Falls, New York 14302-0235 | www.can-eng.com | T : + 1 905 356 1327 | F : + 1 905 356 1817

Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
TrueForge Global Machinery Corp.

Forging Presses

Butech Bliss
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Lasco Umformtechnik GmbH
M+M Greaves (Machinery)
Müller Weingarten AG
Pearson Panke Limited
Presstrade Handelsgesellschaft mbH
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
TrueForge Global Machinery Corp.

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products Division
Elster GmbH
Fives North American Combustion Inc
Praxair Inc
WS Wärmeprozessstechnik GmbH

Isostatic Presses

Sadaf Steel (India) Pvt Ltd
TrueForge Global Machinery Corp.

Powder Metallurgy

Lasco Umformtechnik GmbH
Osterwalder AG
Pearson Panke Limited
Sadaf Steel (India) Pvt Ltd

HEAT TREATMENT FURNACES

Batch Annealing Furnaces

Andritz Maerz GmbH
Can-Eng Furnaces International Limited
Casey Equipment Corp
Consarc Engineering Limited
Danieli & C. Officine Meccaniche Spa
EBNER Industrieofenbau GmbH
Fives North American Combustion UK Ltd
Fives Stein
Innoval Technology Ltd
L & L Special Furnace Co Inc
Linde AG
LOI Thermprocess GmbH
Outokumpu OYJ
Rad-Con Inc
Sadaf Steel (India) Pvt Ltd
Tenova CORE
Tenova LOI ITALIMPIANTI
Tenova SPA (HQ)
Wellman Thermal Technologies Ltd

Bright Annealing Furnaces

Can-Eng Furnaces International Limited

CMI UVK GmbH
Consarc Engineering Limited
EBNER Industrieofenbau GmbH
JP Steel Plantech Co.
L & L Special Furnace Co Inc
LOI Thermprocess GmbH
Machinery International Corp

Outokumpu OYJ
Rad-Con Inc
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Tenova CORE
Tenova LOI ITALIMPIANTI
Tenova SPA (HQ)
Wellman Thermal Technologies Ltd

Continuous Annealing Furnaces

Can-Eng Furnaces International Limited

CMI UVK GmbH
Danieli & C. Officine Meccaniche Spa
EBNER Industrieofenbau GmbH
Fives Stein
L & L Special Furnace Co Inc
LOI Thermprocess GmbH
Major
Outokumpu OYJ
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
Tenova CORE
Tenova LOI ITALIMPIANTI
Tenova SPA (HQ)

Continuous Carburizing

Tenova LOI ITALIMPIANTI

Felt (Furnace Seals)

Sadaf Steel (India) Pvt Ltd

Furnaces For Automotive & Aluminium Sectors

Tenova LOI ITALIMPIANTI

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe/AirSep Corp - Commercial Products Division
EBNER Industrieofenbau GmbH
Elster GmbH
Fives North American Combustion Inc
Fives North American Combustion UK Ltd
Major
Praxair Inc
Wellman Thermal Technologies Ltd
WS Wärmeprozessstechnik GmbH

Normalising Furnaces

Andritz Maerz GmbH

Can-Eng Furnaces International Limited

Danieli & C. Officine Meccaniche Spa
EBNER Industrieofenbau GmbH
L & L Special Furnace Co Inc
LOI Thermprocess GmbH
Outokumpu OYJ
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
Wellman Thermal Technologies Ltd

Tempering Furnaces

Andritz Maerz GmbH

Can-Eng Furnaces International Limited

Consarc Engineering Limited
Danieli & C. Officine Meccaniche Spa
EBNER Industrieofenbau GmbH

Fives North American Combustion UK Ltd
L & L Special Furnace Co Inc
LOI Thermprocess GmbH
Outokumpu OYJ
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
Wellman Thermal Technologies Ltd

Vacuum Furnaces

Consarc Engineering Limited
Sadaf Steel (India) Pvt Ltd

IRONMAKING

Blast Furnaces

Arcelor Mittal
Association For Iron & Steel Technology (AIST)
Clyde Materials Handling
Cone Drive Textron
Danieli & C. Officine Meccaniche Spa
Graftech International
Hatch Ltd
Joneja Bright Steels Pvt Ltd
L & L Special Furnace Co Inc
Paul Wurth SA
Praxair Inc
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co
Siemens VAI Metals Technologies Ltd
Tenova HYL
Tenova SPA (HQ)

Blast Furnaces Components

Ajotec GmbH
Berry Metals Co
Corus Process Engineering
Danieli & C. Officine Meccaniche Spa
Graftech International
LASE GmbH Industrielle Lasertechnik
Paul Wurth SA
Saar-Metallwerke GmbH
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals Technologies Ltd
TMT - Tapping Measuring Technology GmbH
TMT - Tapping Measuring Technology Sarl
Woodings Industrial Corporation

Blast Furnaces Refurbishment

Corus Process Engineering
Danieli & C. Officine Meccaniche Spa
Graftech International
Hatch Ltd
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals Technologies Ltd
Woodings Industrial Corporation

DR Plants

Danieli & C. Officine Meccaniche Spa
Hatch Ltd
Hot Briquetted Iron Association (HBIA)
Midrex Technologies Inc
Outotec
Paul Wurth SA
Praxair Inc

Polypipes Ltd
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co
Tenova HYL
Tenova SPA (HQ)

Electric Reduction Furnaces

ABP Induction Ltd
Hatch Ltd
Meltech Ltd
Sadaf Steel (India) Pvt Ltd
Tenova Melt Shops

Hot Blast Stoves

Danieli & C. Officine Meccaniche Spa
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals Technologies Ltd
Woodings Industrial Corporation

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products Division
Fives North American Combustion Inc
Fives North American Combustion UK Ltd
Praxair Inc

Smelting Reduction

Berry Metals Co
Joneja Bright Steels Pvt Ltd

Outotec

Sadaf Steel (India) Pvt Ltd
Tenova Melt Shops

Submerged Arc Furnaces

Tenova Pyromet

Tap Hole Equipment

Beda Oxygentechnik GmbH
Danieli & C. Officine Meccaniche Spa
Hardrock Systems
Interstop Flow Control
Technology/Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals Technologies Ltd
Woodings Industrial Corporation

RAW MATERIALS

Coal

Arcelor Mittal
DCM DECOMetal GmbH
Jonja Bright Steels PVT Ltd
Metalloyd Ltd
Sadaf Steel (India) Pvt Ltd
STG Holdings

Coke

DCM DECOMetal GmbH
Fosbel Inc
Jonja Bright Steels PVT Ltd
Linston Limited
Metalloyd Ltd
Sadaf Steel (India) Pvt Ltd

Deoxidants (pebbles/pellets)

Ajoy Chemical Industries
Aleris Recycling (German Works) GmbH
Linston Limited
Refmin China Co., Limited

CLASSIFIED LISTINGS

Direct Reduced Iron (DRI)

HBI Association Ltd
Hot Briquetted Iron Association
(HBI)
Metalloyd Ltd
Midrex Technologies Inc

Outotec

Polypipes Ltd
Sadaf Steel (India) Pvt Ltd
TenoVA HYL
TenoVA SPA (HQ)

Electricity Supply

Joslyn HI-Voltage Corp
Shenyang Rustproof Packaging
Materials Co., Ltd

Ferroalloys

Borax
DCM DECOMetal GmbH
London & Scandinavian Analytical
Services - LSM-Analytical Services
Metallurgica GmbH & Co.KG
Rio Tinto Minerals
Sadaf Steel (India) Pvt Ltd
STS S.R.L.
TenoVA SPA (HQ)

Fluxes

Ajoy Chemical Industries
Borax
Metallurgica GmbH & Co.KG
Rio Tinto Minerals

Gas Supply

AirSep Corp - Commercial Products
Division
Linde AG
Praxair Inc

Graphite Pellets

Refmin China Co., Limited

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products
Division
Fives North American Combustion
Inc
Praxair Inc

Iron Ore

Arcelor Mittal
Metalloyd Ltd

Outotec

Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging
Materials Co., Ltd

Scrap

Arcelor Mittal
Metalloyd Ltd
Polypipes Ltd
Sadaf Steel (India) Pvt Ltd
STG Holdings
Technical Weighing Services Inc

Slag Formers

Borax
Jonja Bright Steels PVT Ltd
Linston Limited
Rio Tinto Minerals

Welding Fluxes

Corewire Limited

Welding Wires

Corewire Limited

RAW MATERIALS PREPARATION

Coke Oven by-Product Plant

Fosbel Inc
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd

Coke Oven Peripherals

Fosbel Inc
Sadaf Steel (India) Pvt Ltd
Ventilatorenfabrik Oelde GmbH
Woodings Industrial Corporation

Coke Ovens

Association For Iron & Steel
Technology (AIST)
Danieli & C.Officine Meccaniche Spa
Fosbel Inc
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd

Crushing & Screening

Danieli & C.Officine Meccaniche Spa
Linston Limited
London & Scandinavian Analytical
Services - LSM-Analytical Services

Outotec

Sadaf Steel (India) Pvt Ltd

Feeding & Blending Equipment

Aumund Foerdertechnik GmbH
Canamar Technologies Inc
Danieli & C.Officine Meccaniche Spa

Ferroalloy Granulation

Metalloyd Ltd
Sadaf Steel (India) Pvt Ltd

Gas Production Plant

AirSep Corp - Commercial Products
Division
Linde AG
Praxair Inc
Ventilatorenfabrik Oelde GmbH

Hot Briquetting

Danieli & C.Officine Meccaniche Spa
HBI Association Ltd
Hot Briquetted Iron Association
(HBI)
Köppern GmbH & Co KG

Hydrometallurgical Plant

Hatch Ltd

Outotec

Leaching Plant

Outotec

Pelletising Plant

Danieli & C.Officine Meccaniche Spa
Outotec
Uzinexport SA
Ventilatorenfabrik Oelde GmbH

Powder Metallurgy Plant

Ajoy Chemical Industries
Joneja Bright Steels Pvt Ltd
Linston Limited
Sadaf Steel (India) Pvt Ltd

Scrap Processing Equipment

ASKO BV
Danieli & C.Officine Meccaniche Spa
Framag Industrieanlagenbau GmbH
M+M Greaves (Machinery)
Major

Nucsafe
Sadaf Steel (India) Pvt Ltd

Sinter Plant

IRM Group

JP Steel Plantech Co.

Outotec

Siemens VAI Metals GmbH & Co
Uzinexport SA
Ventilatorenfabrik Oelde GmbH

REHEATING FURNACES

Burners

Air Products Europe
Danieli & C. Officine Meccaniche
Spa
EBNER Industrieofenbau GmbH
Fives North American Combustion
Inc
Fives North American Combustion
UK Ltd
Fives Stein
Kanthal AB
Linde AG
Praxair Inc
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
TenoVA LOI ITALIMPIANTI
TenoVA SPA (HQ)
Wellman Thermal Technologies Ltd

Induction Furnaces

Fives Stein
Inductotherm Corp
Polypipes Ltd
Presstrade Handelsgesellschaft mbH
Sadaf Steel (India) Pvt Ltd

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products
Division
Elster GmbH
Fives North American Combustion
Inc
Fives North American Combustion
UK Ltd
Praxair Inc
WS Wärmeprozessstechnik GmbH

Pusher Furnaces

Andritz Maerz GmbH
BNB
Danieli & C. Officine Meccaniche
Spa
Fives Stein
Iprolam S.A.
LOI Thermprocess GmbH
Polypipes Ltd
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
TenoVA LOI ITALIMPIANTI
TenoVA SPA (HQ)
Wellman Thermal Technologies Ltd

Reheating Furnace Components

Andritz Maerz GmbH
Danieli & C. Officine Meccaniche
Spa
Fives Stein
Kanthal AB
Linde AG
Plakoma GmbH
Praxair Inc

RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA

Roller Hearth Furnaces

Andritz Maerz GmbH
Danieli & C. Officine Meccaniche
Spa
EBNER Industrieofenbau GmbH
L & L Special Furnace Co Inc
LOI Thermprocess GmbH
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging
Material Co., Ltd
SMS Meer SpA
TenoVA LOI ITALIMPIANTI
TenoVA SPA (HQ)
Wellman Thermal Technologies Ltd

Rotary Hearth Furnaces

Andritz Maerz GmbH
Danieli & C. Officine Meccaniche
Spa
Linde AG
LOI Thermprocess GmbH
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
TenoVA LOI ITALIMPIANTI
TenoVA SPA (HQ)
Wellman Thermal Technologies Ltd

Soaking Pits

Andritz Maerz GmbH
Danieli & C. Officine Meccaniche
Spa
Innoval Technology Ltd
Linde AG
Sadaf Steel (India) Pvt Ltd
Wellman Thermal Technologies Ltd

Tunnel Furnaces

Andritz Maerz GmbH
Fives Stein
LOI Thermprocess GmbH
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
TenoVA LOI ITALIMPIANTI
TenoVA SPA (HQ)
Wellman Thermal Technologies Ltd

Walking Beam Furnaces

Andritz Maerz GmbH
BNB
Danieli & C. Officine Meccaniche
Spa
Fives Stein
Iprolam S.A.
LOI Thermprocess GmbH
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
STS S.R.L.
TenoVA LOI ITALIMPIANTI
TenoVA SPA (HQ)
Wellman Thermal Technologies Ltd

ROLLING MILLS

Bar & Light Section

Ansaldo Sistemi Industriali S.p.A.
Asko Inc
BNB
Casey Equipment Corp
Converteam UK Ltd
Danieli & C. Officine Meccaniche
Spa
Electrostal Heavy Engineering Works
(EZTM JSC)
Friedrich Kocks GmbH & Co KG
Ilanlar Haddecilik

Inductotherm Corp
Iprolam S.A.
JP Steel Plantech Co
JSC Dneprospeetsstal
Lang Machinery Co Inc
M+M Greaves (Machinery)
Machinery International Corp
Metalgoi Siderurgica S.P.A
Polypipes Ltd
Reed Machinery LtdLtd
Revas Technologies SpA
RGS Mill Products Corp
S.T.S. Services S.R.L. Unipersonale
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co
SMS Meer SpA
Sparkonix (india) Pvt Ltd

SPX Precison Components - FENN Division

Trueforge Global Machinery Corp
Walzen Irle GmbH
Yieh Corp

Billet

BNB
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Electrostral Heavy Engineering Works (EZTM JSC)
Inductotherm Corp
JP Steel Plantech Co
JSC Dneprospeetsstal
MNI UK Ltd (Formely Numtec Ltd)
Polypipes Ltd
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
Technical Weighing Services Inc
Trueforge Global Machinery Corp
Walzen Irle GmbH

Blooming

Bachknives, Division Of Hermanite Corp
Casey Equipment Corp
Danieli & C. Officine Meccaniche Spa
Inductotherm Corp
Machinery International Corp
MNI UK Ltd (Formely Numtec Ltd)
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
Trueforge Global Machinery Corp

Cold Reversing Mills

ABB Oy (Procesing Industry)
Ansaldo Sistemi Industriali S.p.A.
Asko Inc
Butech Bliss
Casey Equipment Corp
Chia Far Industrial Factory Co
Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
Danieli Fröhling
DavyMarkham Limited
Delta Brands Inc (US)
Fives DMS
Galaxie Corporation
HE Phipps Co Inc
HPL-Neugnadenfelder
Maschinenfabrik GmbH

IRM Group

Josef Frohling GmbH & Co KG
JP Steel Plantech Co
M+M Greaves (Machinery)
Machinery International Corp
Pinard Enterprises

Reed Machinery Ltd
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd
Siemens VAI Metals Technologies Ltd
SPX Precison Components - FENN Division
Technical Weighing Services Inc
Trueforge Global Machinery Corp

Cold Rolling Rod & Wire

Arcelor Mittal
Asko Inc
Casey Equipment Corp
CMI UVK GmbH
Converteam UK Ltd
Machinery International Corp
MNI UK Ltd (Formely Numtec Ltd)
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd

SPX Precison Components - FENN Division

STG Holdings
Yieh Corp

Cold Tandem

ABB Oy (Procesing Industry)
Ansaldo Sistemi Industriali S.p.A.
Association For Iron & Steel Technology (AIST)
Butech Bliss
Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
Danieli Fröhling
DavyMarkham Limited
HE Phipps Co Inc
HPL-Neugnadenfelder
Maschinenfabrik GmbH
nnoval Technology Ltd

IRM Group

Josef Frohling GmbH & Co KG
JP Steel Plantech Co
Machinery International Corp
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co

SPX Precison Components - FENN Division

Direct Rolling Technology

ABB Oy (Procesing Industry)
Arinox SpA
Butech Bliss
Cone Drive Textron

Danieli & C. Officine Meccaniche Spa

HPL-Neugnadenfelder
Maschinenfabrik GmbH
Inductotherm Corp
Sadaf Steel (India) Pvt Ltd
TMEIC GE

Hot Rolling Mill Components

ABB Oy (Procesing Industry)
Ansaldo Sistemi Industriali S.p.A.
BNB
Butech Bliss
Casey Equipment Corp
CMI UVK GmbH
Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
David Brown Engineering
DavyMarkham Limited

Electrostral Heavy Engineering Works (EZTM JSC)
Friedrich Kocks GmbH & Co KG
Haag + Zeissler Maschinenelemente GmbH
Hatch Technologies Ltd
Inductotherm Corp
Iprolam S.A.

IRM Group

Kanthal AB
Lechler GmbH
MNI UK Ltd (Formely Numtec Ltd)
Pinard Enterprises
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Sarclad Ltd
Shenyang Rustproof Packaging Material Co., Ltd
Siemens VAI Metals Technologies Ltd
SMS Meer SpA
Sohar Steel L.L.C
Sparkonix (india) Pvt Ltd

SPX Precison Components - FENN Division

STS S.R.L.

Technical Weighing Services Inc
Uzinexport SA
Van Heyghen Staal

Voith Turbo GmbH & Co KG

Walzen Irle GmbH

Hot Strip

ABB Oy (Procesing Industry)
Ansaldo Sistemi Industriali S.p.A.
Asko Inc
Association For Iron & Steel Technology (AIST)
Bachknives, Division Of Hermanite Corp
Butech Bliss
Casey Equipment Corp
CMI UVK GmbH
Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
Danieli Fröhling
DavyMarkham Limited
Galaxie Corporation
Hatch Technologies Ltd
HE Phipps Co Inc
Innoval Technology Ltd
Iprolam S.A.

IRM Group

ISRA Parsytec Asia Pacific Co., Ltd
ISRA Parsytec GmbH
ISRA Surface Vision GmbH
ISRA Surface Vision Inc
ISRA Vision (Shanghai) Corp., Ltd
ISRA Vision AG
ISRA Vision Parsytec inc
JP Steel Plantech Co
Machinery International Corp
MNI UK Ltd (Formely Numtec Ltd)
Reed Machinery Ltd
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd
Siemens VAI Metals GmbH & Co
Siemens VAI Metals Technologies Ltd

SPX Precison Components - FENN Division

Technical Weighing Services Inc

Trueforge Global Machinery Corp
Van Heyghen Staal
Walzen Irle GmbH
Yieh Corp

Plate

Ansaldo Sistemi Industriali S.p.A.
Arcelor Mittal
Asko Inc
Association For Iron & Steel Technology (AIST)
Bachknives, Division Of Hermanite Corp
Butech Bliss
Casey Equipment Corp
CMI UVK GmbH
Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Dillinger Huette AG
Galaxie Corporation
HE Phipps Co Inc
JP Steel Plantech Co
MNI UK Ltd (Formely Numtec Ltd)
Reed Machinery Ltd
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd
Siemens VAI Metals GmbH & Co
Siemens VAI Metals Technologies Ltd

SPX Precison Components - FENN Division

Technical Weighing Services Inc
Trueforge Global Machinery Corp
Walzen Irle GmbH
Yieh Corp

Rail & Heavy Section

Ansaldo Sistemi Industriali S.p.A.
Asko Inc
CMI UVK GmbH
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Electrostral Heavy Engineering Works (EZTM JSC)
Inductotherm Corp
Reed Machinery Ltd
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Sparkonix (india) Pvt Ltd
Trueforge Global Machinery Corp
Walzen Irle GmbH

Rod

Asko Inc
Association For Iron & Steel Technology (AIST)
Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Friedrich Kocks GmbH & Co KG
Inductotherm Corp
P Steel Plantech Co
JSC Dneprospeetsstal
Machinery International Corp
Polypipes Ltd
Reed Machinery Ltd
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
SMS Meer SpA
Sparkonix (india) Pvt Ltd
STG Holdings
Trueforge Global Machinery Corp
Walzen Irle GmbH

CLASSIFIED LISTINGS

Yieh Corp

Roll Welding

Corewire Limited

Roll Welding Machines

Corewire Limited

Sendzimir Type Mills

ABB Oy (Processing Industry)
Ansaldo Sistemi Industriali S.p.A.
Chia Far Industrial Factory Co
Danieli & C. Officine Meccaniche Spa
Fives DMS
Galaxie Corporation

IRM Group

ISRA Parsytec Asia Pacific Co., Ltd
ISRA Parsytec GmbH
ISRA Surface Vision GmbH
ISRA Surface Vision Inc
ISRA Vision (Shanghai) Corp., Ltd
ISRA Vision AG
ISRA Vision Parsytec inc
Machinery International Corp
Reed Machinery Ltd
Sadaf Steel (India) Pvt Ltd
Sarclad Ltd
Walzen Irle GmbH

Skin Pass & Temper

ABB Oy (Processing Industry)
Ansaldo Sistemi Industriali S.p.A.
Air Products Europe
Butech Bliss
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Chia Far Industrial Factory Co
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Delta Brands Inc (US)
Fives DMS
Galaxie Corporation
HE Phipps Co Inc

IRM Group

ISRA Parsytec Asia Pacific Co., Ltd
ISRA Parsytec GmbH
ISRA Surface Vision GmbH
ISRA Surface Vision Inc
ISRA Vision (Shanghai) Corp., Ltd
ISRA Vision AG
ISRA Vision Parsytec inc
Josef Frohling GmbH & Co KG
Machinery International Corp
Reed Machinery Ltd
Sadaf Steel (India) Pvt Ltd
Sarclad Ltd

SPX Precison Components - FENN Division

Technical Weighing Services Inc
Walzen Irle GmbH

Slabbing

Converteam UK Ltd
Danieli & C. Officine Meccaniche Spa
DavyMarkham Limited
Inductotherm Corp
MNI UK Ltd (Formely Numtec Ltd)
Reed Machinery Ltd
Sadaf Steel (India) Pvt Ltd
Technical Weighing Services Inc
Trueforge Global Machinery Corp
Walzen Irle GmbH

ROLLING PERIPHERALS/FINISHING

Abrasive Cutter

Advanced Machine & Engineering Co
BRAUN Maschinenfabrik GmbH
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd

Abrasives

Sadaf Steel (India) Pvt Ltd

Bearings

Konrad Corporation
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd

Binding & Strapping

Danieli & C. Officine Meccaniche Spa
M.J. Maillis UK Ltd
Plakoma GmbH
Sadaf Steel (India) Pvt Ltd
SES Engineering

Blade Maintenance

Advanced Machine & Engineering Co
Asko Inc
Dienes Werke Fur Maschinenteile GmbH & Co KG
Kasto Ltd
Sadaf Steel (India) Pvt Ltd

Butt Welding

Danieli & C. Officine Meccaniche Spa

Sadaf Steel (India) Pvt Ltd

Centreless Bar Turning

Danieli & C. Officine Meccaniche Spa
M+M Greaves (Machinery)
Sadaf Steel (India) Pvt Ltd

Coil Boxes

Sadaf Steel (India) Pvt Ltd

Cold Drawing Plant

Danieli & C. Officine Meccaniche Spa
M+M Greaves (Machinery)
Machinery International Corp
Reed Machinery Ltd
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material Co., Ltd
STG Holdings

Cooling Beds

Cone Drive Textron
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Danieli & C. Officine Meccaniche Spa
Electrostral Heavy Engineering Works (EZTM JSC)
Plakoma GmbH
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
SES Engineering

Couplings

Electrostral Heavy Engineering Works (EZTM JSC)
Konrad Corporation
Sadaf Steel (India) Pvt Ltd
Voith Turbo inc

Decoilers

ABB Oy (Processing Industry)
Bradbury International UK Ltd
Bronx Engineering Ltd
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Danieli & C. Officine Meccaniche Spa
Danieli Fröhling
Heinrich Georg GmbH
Maschinenfabrik
HPL-Neugnadenfelder
Maschinenfabrik GmbH
Pearson Panke Limited
Pinard Enterprises
Red Bud Industries
Sadaf Steel (India) Pvt Ltd
SES Engineering
Stam SPA

Standex Engraving
Ungerer GmbH + Co. KG

De-oiling Mill Scale

Sadaf Steel (India) Pvt Ltd

Descaling

BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Canamar Technologies Inc
Danieli & C. Officine Meccaniche Spa
Lechler Ltd
MNI UK Ltd (Formely Numtec Ltd)
RGS Mill Products Corp
Sadaf Steel (India) Pvt Ltd
Steinert Elektromagnetbau GmbH

Drives

AMI GE
Cone Drive Textron
Danieli & C. Officine Meccaniche Spa
Konrad Corporation
Sadaf Steel (India) Pvt Ltd
Voith Turbo GmbH & CO KG
Voith Turbo inc

Dryers

BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Sadaf Steel (India) Pvt Ltd

Edge Shears

Asko Inc
Bachknives, Division of Hermanite Corp
Bronx Engineering Ltd
Danieli & C. Officine Meccaniche Spa
Danieli Fröhling
Heinrich Georg GmbH
Maschinenfabrik
Josef Frohling GmbH & Co KG
Pearson Panke Limited
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd
Stam SPA
Ungerer GmbH + Co. KG

Embossing Lines

HE Phipps Co Inc
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd
Standex Engraving

Felts (mills)

Sadaf Steel (India) Pvt Ltd

Flying Shears

Asko Inc

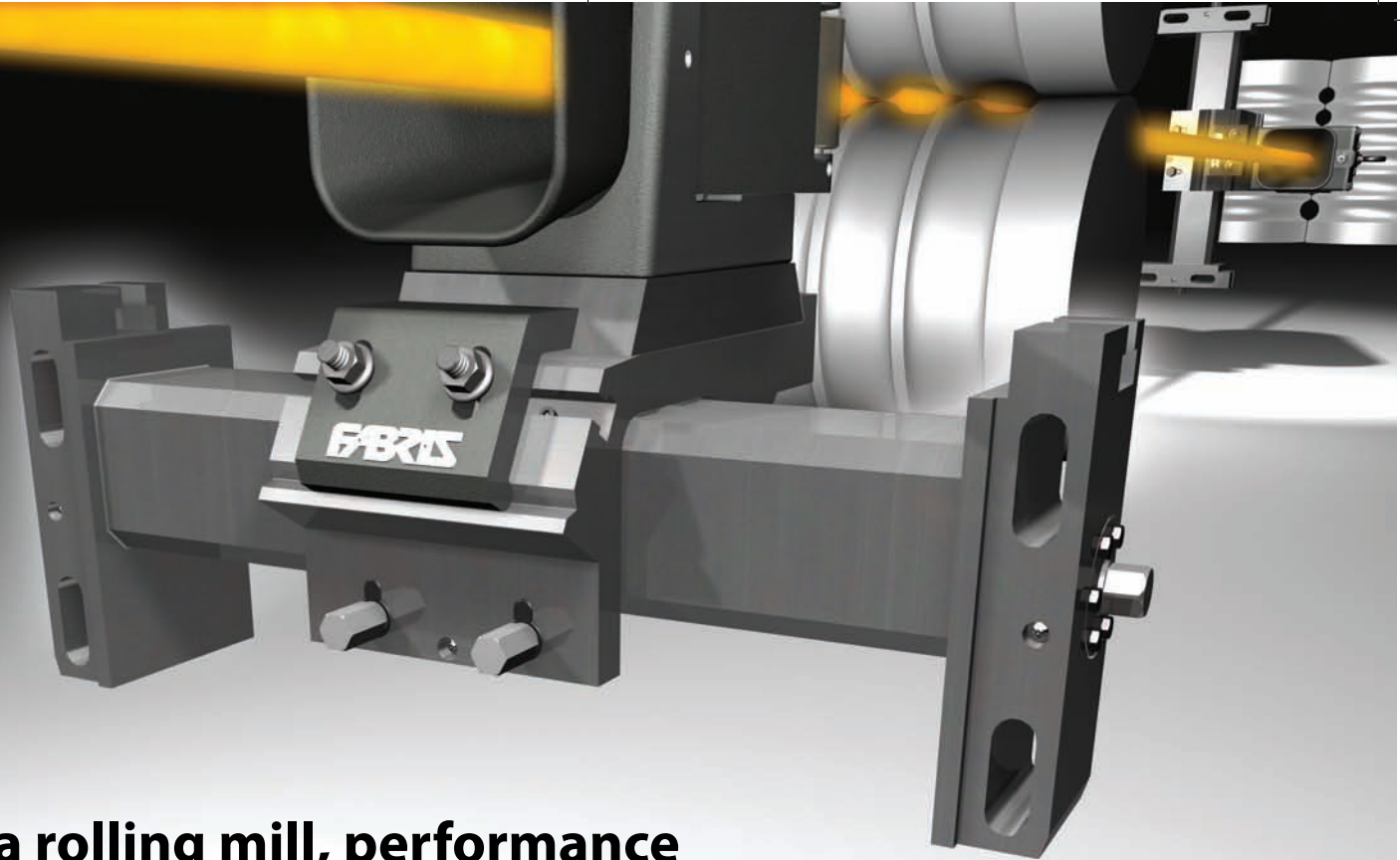
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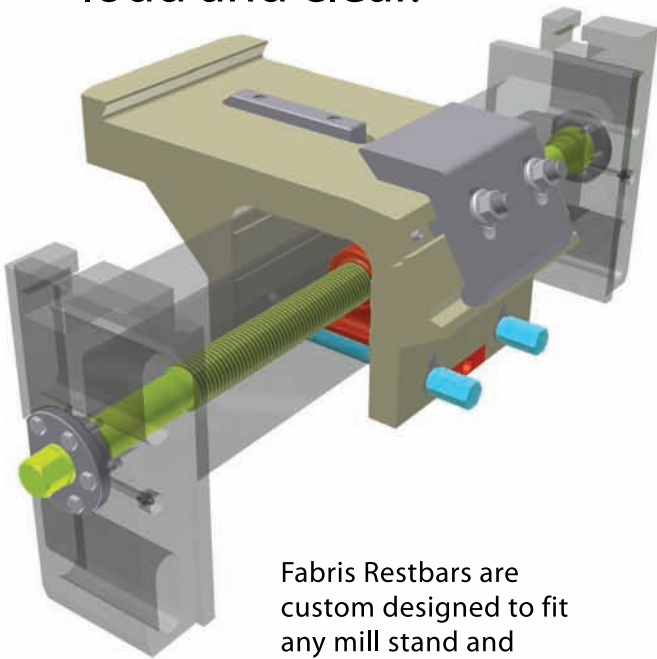
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 Delta Brands Inc (US)
 Heinrich Georg GmbH Maschinenfabrik
 Pearson Panke Limited
 Pinard Enterprises
 Plakoma GmbH
 Revas Technologies SpA
 Sadaf Steel (India) Pvt Ltd
 SMS Meer SPA
 Stam SPA
 Ungerer GmbH + Co. KG

Grinding & Surface Conditioning Equipment

Advanced Machine & Engineering Co
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 Danielli & C. Officine Meccaniche Spa
 Dienes Werke Fur Maschinenteile GmbH & Co KG
 FATA Hunter, Division of FATA S.p.A
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 Sadaf Steel (India) Pvt Ltd
 Sarclad Ltd
 SES Engineering
 Superbolt UK Ltd
 Vereco Srl

Guides

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 Pinard Enterprises
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 SES Engineering

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ABB Oy (Processing Industry)
 Bradbury International UK Ltd
 Bronx Engineering Ltd
 Butech Bliss
 BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
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 Delta Brands Inc (US)
 Galaxie Corporation
 HE Phipps Co Inc
 Heinrich Georg GmbH Maschinenfabrik
 Herr-Voss Stamco
 M+M Greaves (Machinery)
 Machinery International Corp

Pearson Panke Limited
 Pinard Enterprises
 Pinard Enterprises
 Plakoma GmbH
 Sadaf Steel (India) Pvt Ltd
 Stam SPA
 Ungerer GmbH + Co. KG

Lubrication

Air Products Europe
 Canamar Technologies Inc
 Condat Lubricants
 Innoval Technology Ltd
 Lechler Ltd
 Major
 Quaker Chemical Corporation
 Sadaf Steel (India) Pvt Ltd

Marking

Durable Mecco
 Hypertherm Europe B.V.
IML Labels & Systems Ltd
 Kasto Ltd
 Magnemag A/S
 MNI UK Ltd (Formerly Numtec Ltd)
 Pannier Corp
 Sadaf Steel (India) Pvt Ltd
 Sparkonix (india) Pvt Ltd

Mill Rolls

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 Electrostat Heavy Engineering Works (EZTM JSC)
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 Pinard Enterprises
 Sadaf Steel (India) Pvt Ltd
 Sarclad Ltd
 Sparkonix (india) Pvt Ltd

SPX Precision Components - FENN Division

Uzinexport SA

Roll Forming Lines

Cone Drive Textron
 Galaxie Corporation
 Pinard Enterprises
 Reed Machinery Ltd
 Sadaf Steel (India) Pvt Ltd
 Stam SPA
 Pinard Enterprises

Roll Welding

Corewire Limited

Roll Welding Machines

Corewire Limited

Rotary Unions

Beda Oxygentechnik GmbH
 Haag + Zeissler Machineelemente GmbH
 Sadaf Steel (India) Pvt Ltd
 Stam SPA

Saws

Advanced Machine & Engineering Co

NOZZLES AND SYSTEMS

FOR THE METALLURGICAL INDUSTRY



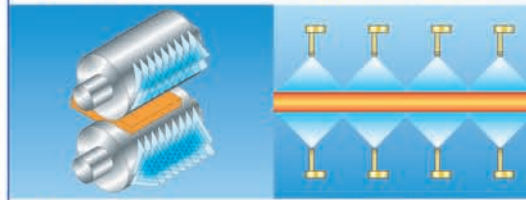
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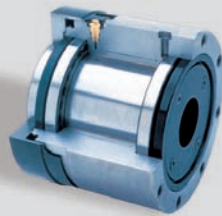
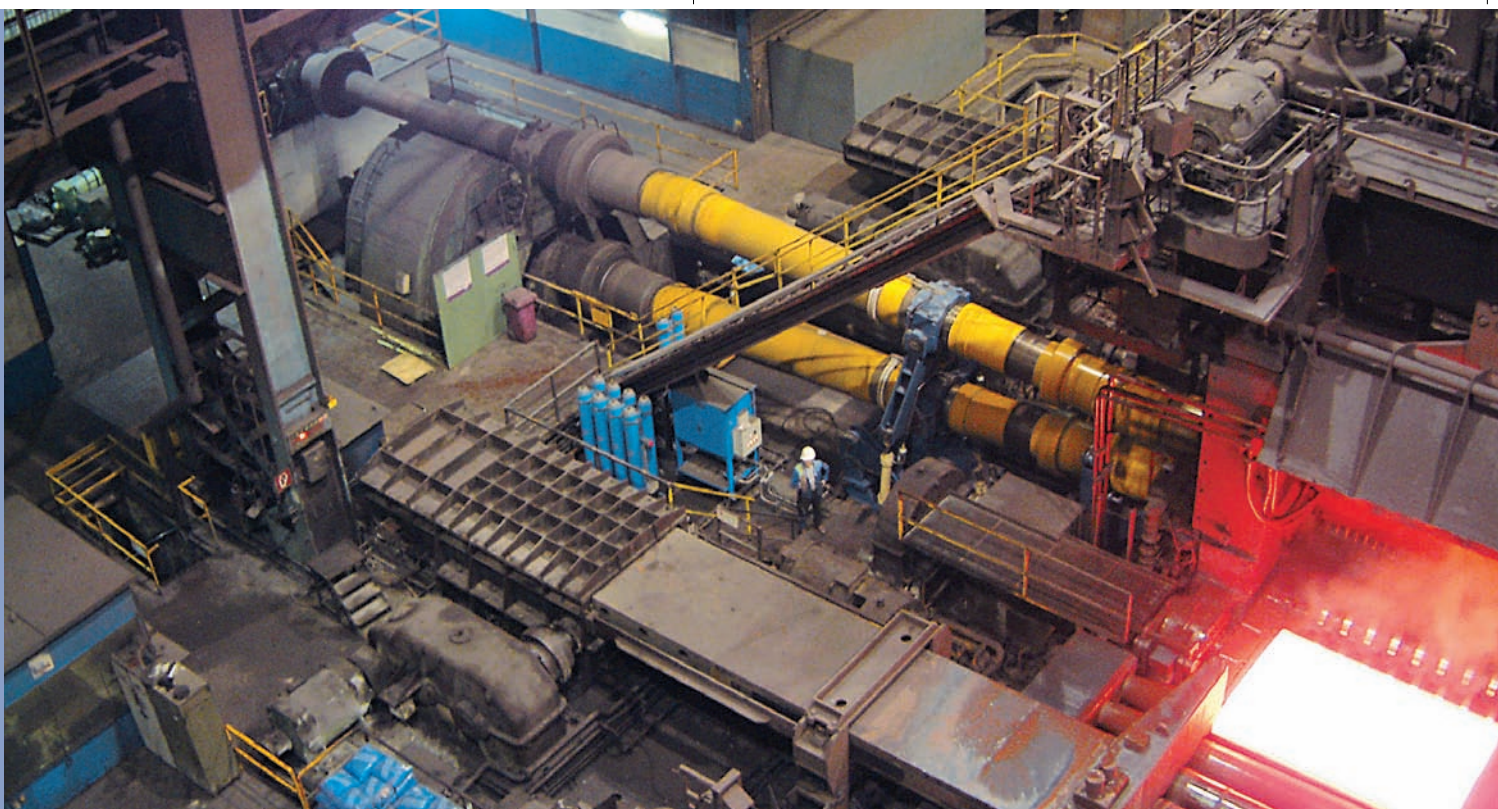
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- **Safeset torque limiting couplings** interrupt the power transmission of the drive line in the event of a catastrophic torque overload, thus protecting the complete drive line such as motor, gearbox and universal joint shafts most effectively.

- **ACIDA torque monitoring systems** have proven their value in reliable monitoring of rotating drive lines. Operating companies rely on various ACIDA solutions, like torque monitoring, vibration monitoring, process optimization and condition based maintenance.

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Danieli & C. Officine Meccaniche
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Framag Industrieanlagenbau GmbH
Kasto Ltd
Prosaw Ltd
Sadaf Steel (India) Pvt Ltd
Superbolt UK Ltd

Scarfig Equipment

Beda Oxygentechnik GmbH
Framag industrieanlagenbau GmbH
Plakoma GmbH
Sadaf Steel (India) Pvt Ltd
Superbolt UK Ltd

Shaped Shears

Asko Inc
Bachknives, Division of Hermanite
Corp
Danieli & C. Officine Meccaniche
Spa
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd

Slitting Equipment

ABB Oy (Processing Industry)
Bachknives, Division of Hermanite
Corp
Bradbury International UK Ltd
Bronx Engineering Ltd
Danieli & C. Officine Meccaniche
Spa
Danieli Fröhling
Delta Brands Inc (US)
Dienes Werke Fur Maschinenteile
GmbH & Co KG
Fabris Inc
HE Phipps Co Inc
Heinrich Georg GmbH
Maschinenfabrik
Herr-Voss StamcoJosef Frohling
GmbH & Co KG
Machinery International Corp
Pinard Enterprises
Plakoma GmbH
Red Bud Industries
Reed Machinery Ltd
Sadaf Steel (India) Pvt Ltd
Stam SPA

Spray Nozzles (rolling)

Canamar Technologies Inc
GRIP Engineering AG
Innoval Technology Ltd
Lechler GmbH
Lechler Ltd
Sadaf Steel (India) Pvt Ltd
Silvent Uk Ltd

Static Shears

Asko Inc
Bachknives, Division of Hermanite
Corp
Bradbury International UK Ltd
Bronx Engineering Ltd
BWG Bergwerk-und Walzwerk-
Maschinenbau GmbH
Danieli & C. Officine Meccaniche
Spa
Plakoma GmbH
Sadaf Steel (India) Pvt Ltd

Straighteners

Bradbury International UK Ltd
Bronx/Taylor-Wilson Ltd
Bronx Engineering Ltd
Casey Equipment Corp
Danieli & C. Officine Meccaniche

Spa
Delta Brands Inc (US)
Galaxie Corporation
Heinrich Georg GmbH
Maschinenfabrik
Herr-Voss Stamco
M+M Greaves (Machinery)
Machinery International Corp
Pinard Enterprises
Red Bud Industries
Reed Machinery Ltd
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
SMS Meer SPA
Stam SPA

Stretch Bend Levelling Lines

Pearson Panke Limited
Ungerer GmbH + Co. KG

STEELMAKING /REFINING

AOD Converters

Borax
Danieli & C. Officine Meccaniche
Spa
Praxair Inc
RHI AG
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co KG
Woodings Industrial Corporation
UHT Uvan Hagfors Teknologi

Bottom Blown Converters

Danieli & C. Officine Meccaniche
Spa
Joneja Bright Steels PVT Ltd
RHI AG
Sadaf Steel (India) Pvt Ltd
UHT Uvan Hagfors Teknologi

Combined Blowing Converters

Joneja Bright Steels PVT Ltd
Praxair Inc
Sadaf Steel (India) Pvt Ltd
UHT Uvan Hagfors Teknologi

EAF Burners

Air Products Europe
Badsiche Stahl Engineering GmbH
Beda Oxygentechnik GmbH
Berry Metals Co
Concast AG
Danieli & C. Officine Meccaniche
Spa
Praxair Inc
Sadaf Steel (India) Pvt Ltd
Sohar Steel L.L.C
Tenova CORE
Tenova Melt Shops

Electric Arc Furnaces

Arcelor Mittal
Association For Iron & Steel
Technology (AIST)
Badsiche Stahl Engineering GmbH
BNB
Casey Equipment Corp
Concast AG
Danieli & C. Officine Meccaniche
Spa
Graftech International
Hatch Ltd
Inteco Special Melting Technologies
GmbH

Joslyn HI-Voltage Corp
JP Steel Plantech Co
L & L Special Furnace Co Inc
Polypipes Ltd
Praxair Inc
Revas Technologies SpA
RHI AG
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co KG
Sohar Steel L.L.C
Tenova CORE
Tenova Goodfellow
Tenova Melt Shops
Tenova SPA (HQ)
Woodings Industrial Corporation

ESR Plant & VAR Plant

Inteco Special Melting Technologies
GmbH
Sadaf Steel (India) Pvt Ltd

Graphite Electrodes

Graftech International
Sadaf Steel (India) Pvt Ltd
SGL Carbon GmbH
Sohar Steel L.L.C
Tenova SPA (HQ)
UK Carbon & Graphite Co Ltd

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products
Division
Elster GmbH
Fives North American Combustion
Inc
Fives North American Combustion
UK Ltd
Praxair Inc

Injection Ancillaries

Beda Oxygentechnik GmbH
Danieli & C. Officine Meccaniche
Spa
Linston Limited
Sadaf Steel (India) Pvt Ltd
SMS Mevac GmbH
VÚHÍ a.s.

Injection Plant

Clyde Materials Handling
Danieli & C. Officine Meccaniche
Spa
Linston Limited
Sadaf Steel (India) Pvt Ltd
SMS Mevac GmbH
Velco GmbH

Ladle Furnaces

ABB Crane Systems
Badsiche Stahl Engineering GmbH
BNB
Concast AG
Danieli & C. Officine Meccaniche
Spa
Graftech International
Hatch Ltd
Inteco Special Melting Technologies
GmbH
Linde AG
Praxair Inc
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co KG
SMS Mevac GmbH
Sohar Steel L.L.C
STS S.R.L.
Tenova CORE
Tenova Melt Shops

Ladle Heaters

ABB Crane Systems
Air Products Europe
Fives North American Combustion
Inc
Fives North American Combustion
UK Ltd
Praxair Inc
Sadaf Steel (India) Pvt Ltd
Sohar Steel L.L.C
STS S.R.L.

Lances & Nozzles

Beda Oxygentechnik GmbH
Berry Metals Co
Corus Process Engineering
Danieli & C. Officine Meccaniche
Spa
Fives North American Combustion
UK Ltd
Lechler GmbH
Lechler Ltd
Praxair Inc
Saar-Metallwerke GmbH
Sadaf Steel (India) Pvt Ltd
Sohar Steel L.L.C
Tenova SPA (HQ)

Mixers/Holding Furnaces

Fives North American Combustion
UK Ltd
Jasper
Major
Sadaf Steel (India) Pvt Ltd

Plasma Furnaces

Hypertherm Europe BV
Sadaf Steel (India) Pvt Ltd
Tetronics Ltd

Reverbatory Furnaces

Sadaf Steel (India) Pvt Ltd

Rotary Furnaces

Hatch Ltd
Jasper
Major
Monometer Holdings Ltd
Sadaf Steel (India) Pvt Ltd

Stirring Systems

Danieli & C. Officine Meccaniche
Spa
Inteco Special Melting Technologies
GmbH
SMS Mevac GmbH
Praxair Inc
RHI AG
Sadaf Steel (India) Pvt Ltd
VÚHÍ a.s.

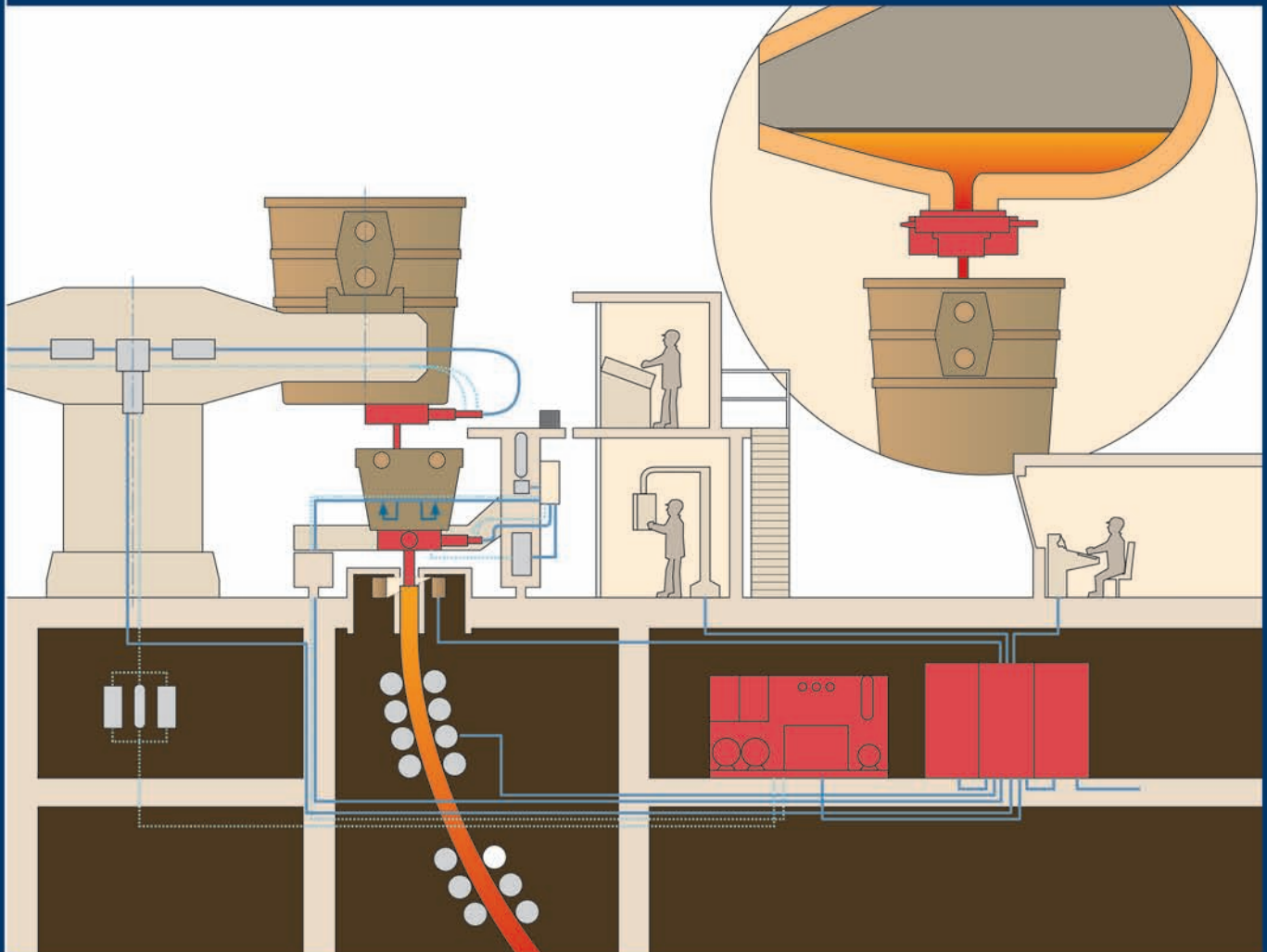
Top Blown (LD) Converters

Association For Iron & Steel
Technology (AIST)
Danieli & C. Officine Meccaniche
Spa
Joneja Bright Steels PVT Ltd
JP Steel Plantech Co
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals GmbH & Co KG

Vacuum Degassing Plant

Concast AG
Danieli & C. Officine Meccaniche
Spa
Inteco Special Melting Technologies
GmbH
Joneja Bright Steels PVT Ltd
JP Steel Plantech Co
Sadaf Steel (India) Pvt Ltd

Flow Control Technology from Converter to Mould



Slide Gate Technology

- Tap hole gates for melting vessels
- Ladle gates
- Tundish gates
- Submerged nozzle changers
- Metering nozzle changers

Drive- and Inert Gas Technology

- Hydraulic systems
- Cylinder drives
- Pneumatic drives
- Electric drives
- Inert gas purging systems

Process Control Technology

- Evaluation of casting process
- Automatic mould level control
- Automatic tundish level control
- Visualization of casting process
- Integrated early slag detection

Additional Services

- Project engineering
- Supervision/commissioning
- Training
- After sales service

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interstop@stopinc.ch, www.stopinc.ch

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Borax

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Meltech Ltd
Sadaf Steel (India) Pvt Ltd

Vacuum Remelting Plant

Inteco Special Melting Technologies GmbH
Sadaf Steel (India) Pvt Ltd

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Danielli & C. Officine Meccaniche Spa
Saar-Metallwerke GmbH
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Sohar Steel L.L.C
STS S.R.L.

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Aluminising Lines

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IRM Group
Sadaf Steel (India) Pvt Ltd

CAPL

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CMI UVK GmbH
Fives DMS
Fives Stein

IRM Group

JP Steel Plantech Co

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ABB Oy (Process Industry)
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HPL-Neugnadenfelder Maschinenfabrik GmbH

IRM Group

Sadaf Steel (India) Pvt Ltd

Cleaning Lines

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Delta Brands Inc (US)
Falcon Steel Ltd
HPL-Neugnadenfelder Maschinenfabrik GmbH
Innoval Technology Ltd
Red Bud Industries
Steinert Elektromagnetbau GmbH

Electrolytic Galvanising Lines

ABB Oy (Process Industry)

CMI UVK GmbH
Fives Stein
HE Phipps Co Inc
Inductotherm Corp
IRM Group
ISRA Parsytec Asia Pacific Co., Ltd
ISRA Parsytec GmbH
ISRA Surface Vision GmbH
ISRA Surface Vision Inc
ISRA Vision (Shanghai) Corp., Ltd
ISRA Vision AG
ISRA Vision Parsytec Inc
JP Steel Plantech Co
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging Material., Ltd
Technical Weighing Services Inc
Tenova SPA (HQ)

Electrolytic Tinning Lines

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Inductotherm Corp

IRM Group

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Sadaf Steel (India) Pvt Ltd
Technical Weighing Services Inc
Tenova SPA (HQ)

Film Laminating Line

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Shenyang Rustproof Packaging Material., Ltd

Hot Dip Galvanising Lines

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Arcelor Mittal
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CMI UVK GmbH
Delta Brands Inc (US)
EBNER Industrieofenbau GmbH
Falcon Steel Ltd
Fives DMS
Fives North American Combustion UK Ltd
Fives Stein
Galaxie Corporation
HE Phipps Co Inc
Inductotherm Corp

IRM Group

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ISRA Parsytec GmbH
ISRA Surface Vision GmbH
ISRA Surface Vision Inc
ISRA Vision (Shanghai) Corp., Ltd
ISRA Vision AG
ISRA Vision Parsytec Inc
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Technical Weighing Services Inc
TREXA C.A.
Wedge Group Galvanizing Ltd
Yieh Corp

Hot Dip Tinning Lines

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Inductotherm Corp

IRM Group

Yieh Corp

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products

Division
Elster GmbH
Fives North American Combustion UK Ltd
Praxair Inc
WS Wärmeprozessstechnik GmbH

Organic Coating Lines

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Falcon Steel Ltd
Fives Stein
Major
Siemens VAI Metals GmbH & Co KG

Painting & Lacquering Lines

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Delta Brands Inc (US)
FATA Hunter, Division of FATA S.p.A
Galaxie Corporation
HE Phipps Co Inc
Inductotherm Corp
Innoval Technology Ltd
Major

Picking Lines

ABB Oy (Process Industry)
Acciaieria Arvedi Spa
Asko Inc
Bronx Engineering Ltd
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
CMI UVK GmbH
Delta Brands Inc (US)
E Braude (London) Ltd
Falcon Steel Ltd
FATA Hunter, Division of FATA S.p.A
Fives DMS
Galaxie Corporation
Iprolam S.A.
ISRA Parsytec Asia Pacific Co., Ltd
SRA Parsytec GmbH
ISRA Surface Vision GmbH
ISRA Surface Vision Inc
ISRA Vision (Shanghai) Corp., Ltd
ISRA Vision AG
ISRA Vision Parsytec Inc
JP Steel Plantech Co
Red Bud Industries
Siemens VAI Metals GmbH & Co KG
Technical Weighing Services Inc
Tenova SPA (HQ)
Yieh Corp

Sheet Presses

Sadaf Steel (India) Pvt Ltd
Yieh Corp

Welding Machines

Cone Drive Textron
Guild International
Prosaw Ltd
Yieh Corp

TUBEMAKING

Dies & Tools

Pinard Enterprises
Sadaf Steel (India) Pvt Ltd
VUHÍ a.s.

Draw Benches

Bronx International Inc
Danielli & C. Officine Meccaniche Spa

M+M Greaves (Machinery)
Machinery International Corp
Reed Machinery
Sadaf Steel (India) Pvt Ltd

SPX Precision Components - FENN Division

ERW Mills

Bronx International Inc
Electrostral Heavy Engineering Works (EZTM JSC)
Galaxie Corporation
HE Phipps Co Inc
Machinery International Corp
Reed Machinery
Sadaf Steel (India) Pvt Ltd
Trueforge Global Machinery Corp.

HF Mills

Arcelor Mittal
Electrostral Heavy Engineering Works (EZTM JSC)
Galaxie Corporation
M+M Greaves (Machinery)
Reed Machinery
Sadaf Steel (India) Pvt Ltd
Trueforge Global Machinery Corp.

Industrial Gas Suppliers/Combustion Technologies

Air Products Europe
AirSep Corp - Commercial Products Division
Elster GmbH
Fives North American Combustion UK Ltd
Praxair Inc
WS Wärmeprozessstechnik GmbH

Mandrel Bar Lubrication Equipment

Canamar Technologies Inc

Mandrel Mills

Ansaldo Sistemi Industriali S.p.A.
Danielli & C. Officine Meccaniche Spa
Electrostral Heavy Engineering Works (EZTM JSC)
Friedrich Kocks GmbH & Co KG
Sadaf Steel (India) Pvt Ltd
Trueforge Global Machinery Corp.
Walzen Irlé GmbH

Mannesmann Mills

Danielli & C. Officine Meccaniche Spa
Electrostral Heavy Engineering Works (EZTM JSC)
Machinery International Corp
Sadaf Steel (India) Pvt Ltd
Trueforge Global Machinery Corp.
Walzen Irlé GmbH

Piercers

Ansaldo Sistemi Industriali S.p.A.
Danielli & C. Officine Meccaniche Spa
Electrostral Heavy Engineering Works (EZTM JSC)

Friedrich Kocks GmbH & Co KG
Machinery International Corp
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd
Trueforge Global Machinery Corp.
Walzen Irlé GmbH

Pilger mills

Ansaldo Sistemi Industriali S.p.A.
Electrostral Heavy Engineering Works



STEELTIMES INTERNATIONAL

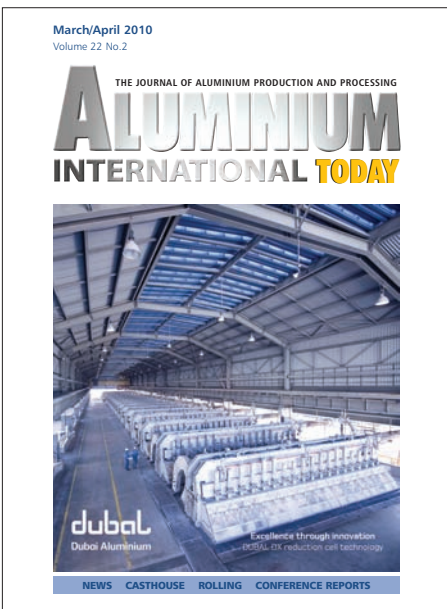
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(EZTM JSC)
 Machinery International Corp
 Sadaf Steel (India) Pvt Ltd
 Trueforge Global Machinery Corp.
 Walzen Irle GmbH

Planetary Mills
 Friedrich Kocks GmbH & Co KG
 Sadaf Steel (India) Pvt Ltd
 Walzen Irle GmbH

Spiral Welding Mills
 Cone Drive Textron
 Delta Brands Inc (US)
 Galaxie Corporation
 Reed Machinery Ltd
 Sadaf Steel (India) Pvt Ltd
 Trueforge Global Machinery Corp.

Stretch Reducing Mills
 Ansaldo Sistemi Industriali S.p.A.
 Danieli & C. Officine Meccaniche Spa
 Electrostal Heavy Engineering Works (EZTM JSC)
 Friedrich Kocks GmbH & Co KG
 Sadaf Steel (India) Pvt Ltd
 Trueforge Global Machinery Corp.
 Walzen Irle GmbH

Submerged Arc Mills
 Sadaf Steel (India) Pvt Ltd
 Trueforge Global Machinery Corp.
 Uzinexport SA

Tube Finishing Equipment
 Anguil Environmental Systems, Inc
 BRAUN Maschinenfabrik GmbH
 Bronx International Inc
 Bronx/Taylor-Wilson Ltd
 Canamar Technologies Inc
 CMI UVK GmbH
 Cone Drive Textron
 Danieli & C. Officine Meccaniche Spa
 Electrostal Heavy Engineering Works (EZTM JSC)
 Galaxie Corporation
 Machinery International Corp
 Pinard Enterprises
 Reed Machinery Ltd
 Sadaf Steel (India) Pvt Ltd
 Uzinexport SA

U O Presses
 Galaxie Corporation
 Sadaf Steel (India) Pvt Ltd

USED EQUIPMENT

Refurbishment
 Addison Saws Ltd
 Butech Bliss
 Danieli & C. Officine Meccaniche Spa
 DavyMarkham Limited
 Downs Crane & Hoist Co Inc
 Harris
 Herr-Voss Stamco
 Joneja Bright Steels Pvt Ltd
 Kasto Ltd
 Kasto Maschinenbau GmbH & Co KG
 Konrad Corporation
 Major
 Meltech Ltd

Metalock Engineering UK Ltd
 Oilgear Towler
 Pearson Panke Limited
 Sadaf Steel (India) Pvt Ltd
 SES Engineering
 Standex Engraving
 TDI Group LLC
 Woodings Industrial Corporation
 Zwick GmbH & Co KG

Second Hand & Used Equipment
 Addison Saws Ltd
 Casey Equipment Corp
 Delta Brands Inc (US)
 Harris
 HE Phipps Co Inc
 Joneja Bright Steels Pvt Ltd
 Kasto Ltd
 Kasto Maschinenbau GmbH & Co KG
 Lang machinery Co Inc
 M+M Greaves (Machinery)
 Machinery International Corp
 Meltech Ltd
 Pearson Panke Limited
 Presstrade Handelsgesellschaft mbH
 Prosaw Ltd
 Reed Machinery Ltd
 Sadaf Steel (India) Pvt Ltd
STS S.R.L.
 TDI Group LLC
 Trueforge Global Machinery Corp
 Zwick GmbH & Co KG



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GENERAL SERVICES

-PRODUCTS PROCESSING

Coke-Oven by-Products

Fosbel Inc
M.N. Dastur & Company (P) Ltd
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd

Dust Recovery

Canamar Technologies Inc
Midrex Technologies Inc
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd
Tetronics Ltd

Slag Granulation

Ajotec GmbH
M.N. Dastur & Company (P) Ltd
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd

CONSUMABLES

Fastners

Superbolt Inc

Nuts & Bolts

Superbolt Inc

ENERGY

Blast Furnace Energy Recovery

Anguil Environmental Systems, Inc
Danieli C.Officine Meccaniche Spa
M.N. Dastur & Company (P) Ltd
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd

Blast Furnace Off-Gas Recovery

Anguil Environmental Systems, Inc
Danieli C.Officine Meccaniche Spa
George Kelk Corporation
Linde AG
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals TechnologiesLtd

Coke Oven Off-Gas Recovery

Anguil Environmental Systems, Inc
Danieli C.Officine Meccaniche Spa
M.N. Dastur & Company (P) Ltd
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd

Consultancy

Clyde Materials Handling
London & Scandinavian Analytical Services - LSM-Analytical Services
M.N. Dastur & Company (P) Ltd
Sadaf Steel (India) Pvt Ltd
Wellman Thermal Technologies Ltd

Curtain Doors

Sadaf Steel (India) Pvt Ltd

Electricity Generation

Ge Jenbacher Gas Engines
Headquarter
Sadaf Steel (India) Pvt Ltd
Tenova Goodfellow
Tetronics Ltd

Energy Monitoring Systems

Fives North American Combustion UK Ltd
Joslyn Hi-Voltage Corp
Lee-Dickens Ltd
PSI Business Technology For Industries GmbH
Sadaf Steel (India) Pvt Ltd
Tenova CORE
Tenova Goodfellow
Tenova Melt Shops
Wellman Thermal Technologies Ltd

Gas Production

AirSep Corp - Commercial Products Division
Sadaf Steel (India) Pvt Ltd

Heat Recovery Steam Generators

Anguil Environmental Systems, Inc
M.N. Dastur & Company (P) Ltd
Sadaf Steel (India) Pvt Ltd

Power Generation

Anguil Environmental Systems, Inc
Ge Jenbacher Gas Engines
Headquarter
Sadaf Steel (India) Pvt Ltd

Reheat Furnace Heat Recovery

Anguil Environmental Systems, Inc
Danieli C.Officine Meccaniche Spa
Fives North American Combustion UK Ltd
Innoval Technology
Linde AG
Sadaf Steel (India) Pvt Ltd

Sinter Strand Heat Recovery

Anguil Environmental Systems, Inc
Sadaf Steel (India) Pvt Ltd

Steelmaking Off-Gas Recovery

Anguil Environmental Systems, Inc
Danieli C.Officine Meccaniche Spa
Linde AG
Sadaf Steel (India) Pvt Ltd
Tenova Goodfellow
Tenova Melt Shops

ENGINEERING SERVICES

Civil Engineering
Arcelor Mittal
CH2M Hill
Danieli C. Officine Meccaniche Spa
Espic Consulting Pvt. Ltd

Iprolam S.A.
M.N. Dastur & Company (P) Ltd

Consulting

ABP Induction Ltd
Andritz MAERZ GmbH
Badische Stahl Engineering GmbH
Baytek Systems
BNB
CH2M Hill
CMI UVK GmbH
Control Techniques UK - Telford
Converteam UK Ltd
Danieli C. Officine Meccaniche Spa
Danieli Fröhling
Espic Consulting Pvt. Ltd
Eurotherm
Gesco mbHHatch Ltd
Innoval Technology Ltd
Inteco Special Melting Technologies GmbH
Kanthal AB
M.N. Dastur & Company (P) Ltd
Meltech Ltd
Oilgear Towler

Outotec

S.T.S. Services S.R.L. Unipersonale
Sentech Precimeter Inc
TDI Group LLC
Tenova Goodfellow
Uzinexport SA
WVN Steel Solutions GmbH

Electrical Engineering

Baytek Systems

Bushman Avontec

CH2M Hill
CMI UVK GmbH
Control Techniques UK - Telford
Converteam UK Ltd
Danieli C. Officine Meccaniche Spa
Electronic Development Labs, Inc
Elster GmbH
Espic Consulting Pvt. Ltd
Fives DMS
Gesco mbH
Hatch Ltd
Inteco Special Melting Technologies GmbH

Iprolam S.A.
Jasper
Oilgear Towler

Outotec

Precimeter Control AB
S.T.S. Services S.R.L. Unipersonale
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals Technologies Ltd
Uzinexport SA
WVN Steel Solutions GmbH
Woodings Industrial Corporation

Engineering & Project Management

Ajotec GmbH
Andritz MAERZ GmbH
Association for Iron & Steel Technology (AIST)
Badische Stahl Engineering GmbH
Baytek Systems

Beda Oxygentechnik GmbH
BNB
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
CH2M Hill
Clyde Materials Handling
CMI UVK GmbH
Control Techniques UK - Telford
Converteam UK Ltd
Danieli C. Officine Meccaniche Spa
DavyMarkham Limited
Electronic Development Labs, Inc
Espic Consulting Pvt. Ltd
Eurotherm
Fives DMS
Fives North American Combustion UK Ltd
Fives Stein
Gesco mbH
Hatch Ltd
Inteco Special Melting Technologies GmbH
Interstop Flow Control Technology
Iprolam S.A.
Jasper
Kasto Maschinenbau GmbH & Co KG
Major

Metallock Engineering UK Ltd

Oilgear Towler

Outotec

Paul Wurth SA
Precimeter Control AB
Sadaf Steel (India) Pvt Ltd
SES Engineering
Shenyang Rustproof Packaging Material Co., Ltd
Siemens VAI Metals Technologies Ltd
SKF (U.K.) Limited
SMS Meer SpA
Tenova Goodfellow
Tenova HYL
TMEIC GE
UHT Uvan Hagfors Teknologi
Uzinexport SA
Van Leeuwen Pipe & Tube Group
WVN Steel Solutions GmbH
Wellman Thermal Technologies Ltd
Woodings Industrial Corporation

Maintenance

Joslyn HI-Voltage Corp
ABP Induction Ltd
Association for Iron & Steel Technology (AIST)
Baytek Systems
CMI UVK GmbH
Danieli C. Officine Meccaniche Spa
DavyMarkham Limited
Elster GmbH

Five North American Combustion

Fives DMS
Fosbel Inc
Interstop Flow Control Technology
Jasper
Meltech Ltd

Metallock Engineering UK Ltd

CLASSIFIED LISTINGS

Oilgear Towler
Sadaf Steel (India) Pvt Ltd
SKF (U.K.) Limited
Technical Weighing Services Inc
Van Leeuwen Pipe & Tube Group
Wellman Thermal Technologies Ltd

Mechanical Engineering

BNB
Bronx Engineering Ld
CH2M Hill
CMI UVK GmbH
Danieli Fröhling
DavyMarkham Limited
Drennan (Shanghai) Company Ltd
Electronic Development Labs, Inc
Elster GmbH
Espic Consulting Pvt. Ltd
Fives DMS
Fives Stein
Hatch Ltd
ISIK Engineering Co Ltd
Jasper
Kasto Maschinenbau GmbH & Co
KG
Inteco Special Melting Technologies
GmbH
Iprolam S.A.
London & Scandinavian Analytical
Services - LSM-Analytical
Services
M. C. Mowjee & Co Pvt. Ltd

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Oilgear Towler
Outotec
Sadaf Steel (India) Pvt Ltd
Schenck Process GmbH
Siemens VAI Metals Technologies
Ltd
SKF (U.K.) Limited
Superbolt UK Ltd
TDI Group LLC
Uzinexport SA

Voith Turbo GmbH & Co KG

WVN Steel Solutions GmbH
Woodings Industrial Corporation

Project Engineering

Ajotec GmbH
Baytek Systems
BNB
Bronx Engineering Ld
CH2M Hill
CMI UVK GmbH
Converteam UK Ltd
Danieli C. Officine Meccaniche Spa
Espic Consulting Pvt. Ltd
Eurotherm
Fives DMS
Fives Stein
Gesco mbH
prolam S.A.
Jasper

Metallock Engineering UK Ltd

Oilgear Towler
Outotec
Pannier Corp
S.T.S. Services S.R.L. Unipersonale
Sadaf Steel (India) Pvt Ltd
Siemens VAI Metals Technologies
Ltd
SKF (U.K.) Limited
Technical Weighing Services Inc
Uzinexport SA

Voith Turbo GmbH & Co KG

WVN Steel Solutions GmbH

QA Certification

Sadaf Steel (India) Pvt Ltd

Technical Information/Database

Quintiq
Sadaf Steel (India) Pvt Ltd
Superbolt UK Ltd
WVN Steel Solutions GmbH

Technology Transfer

Danieli C. Officine Meccaniche Spa
Inteco Special Melting Technologies
GmbH
London & Scandinavian Analytical
Services - LSM-Analytical
Services
Sadaf Steel (India) Pvt Ltd
Tenova Goodfellow
Tenova HYL
Tetronics Ltd

Training

Air Products Europe
Badische Stahl Engineering GmbH
Baytek Systems
CMI UVK GmbH
Control Techniques UK - Telford
Converteam UK Ltd
Danieli C. Officine Meccaniche Spa
Eurotherm
Innoval Technology Ltd
Inteco Special Melting Technologies
GmbH
Interstop Flow Control Technology

Outotec

SKF (U.K.) Limited
Tenova HYL
WVN Steel Solutions GmbH

Water Services

Air Products Europe
CH2M Hill
Drennan (Shanghai) Company Ltd
Hatch Ltd
M.N. Dastur & Company (P) Ltd

ENVIRONMENTAL CONTROL

Acid Recovery Equipment

Anguil Environmental Systems, Inc

Baghouses

Canamar Technologies Inc
Danieli & C. Officine Meccaniche
Spa
GMD Environmental Technologies,
Inc. A Ceco Environmental
Company
Nucsaf
Ventilatorenfabrik Oelde GmbH

Cyclones

Canamar Technologies Inc
Carter Environmental Engineers Ltd
Danieli & C. Officine Meccaniche
Spa
GMD Environmental Technologies,
Inc. A Ceco Environmental
Company
Paul Wurth SA
Ventilatorenfabrik Oelde GmbH

Dry Electrostatic Precipitators

Carter Environmental Engineers Ltd
Sadaf Steel (India) Pvt Ltd
Sohar Steel L.L.C
Ventilatorenfabrik Oelde GmbH

Electrolyte Treatment Plant

Sadaf Steel (India) Pvt Ltd

Filtration Equipment

Anguil Environmental Systems, Inc
Canamar Technologies Inc
Carter Environmental Engineers Ltd
Clyde Materials Handling
Danieli & C. Officine Meccaniche
Spa
Filtration Services Ltd
Fives DMS
Paul Wurth SA
Sadaf Steel (India) Pvt Ltd
Steinert Elektromagnetbau GmbH
Ventilatorenfabrik Oelde GmbH

Fume Extraction

Anguil Environmental Systems, Inc
Badische Stahl Engineering GmbH
Carter Environmental Engineers Ltd
Danieli & C. Officine Meccaniche
Spa
Fives Stein
GMD Environmental Technologies,
Inc. A Ceco Environmental
Company
Ventilatorenfabrik Oelde GmbH

Gas Cleaning Plant

Carter Environmental Engineers Ltd
Danieli & C. Officine Meccaniche
Spa
M.N. Dastur & Company (P) Ltd
Major
Paul Wurth SA
Ventilatorenfabrik Oelde GmbH

Health & Safety

A.J. Charnaud & Co (PTY) Ltd
Association for Iron & Steel
Technology (AIST)
Lankhorst Mouldings bv
Tenova Goodfellow
Thermal Ceramics

HVAC Systems

Lintern Corp
M.N. Dastur & Company (P) Ltd

Noise Control

Danieli & C. Officine Meccaniche
Spa
Ventilatorenfabrik Oelde GmbH

Venturi Scrubbers

Anguil Environmental Systems, Inc
Carter Environmental Engineers Ltd
Danieli & C. Officine Meccaniche
Spa
Paul Wurth SA
Ventilatorenfabrik Oelde GmbH

Water Pollution Control Equipment

Carter Environmental Engineers Ltd
M.N. Dastur & Company (P) Ltd
Spectro Analytical Instruments
GmbH

Wet Electrostatic

Precipitators

Carter Environmental Engineers Ltd
Sohar Steel L.L.C

FINANCIAL SERVICES

Business Planning

PCI Systems Limited
Sadaf Steel (India) Pvt Ltd

Conventional Trading

Allington - Steel Co
Kochs Metals Trading Ltd
Sadaf Steel (India) Pvt Ltd
Stemcor

Disposals & Valuations

Sadaf Steel (India) Pvt Ltd

E-Com Procurement

MESsteel.com
Sadaf Steel (India) Pvt Ltd

E-Com Steel Trading

Allington - Steel Co
MESsteel.com
Sadaf Steel (India) Pvt Ltd
Stemcor

Financial Planning

Sadaf Steel (India) Pvt Ltd
Stemcor

Insurance Underwriters

Coface UK
Sadaf Steel (India) Pvt Ltd

Investment Banking

Sadaf Steel (India) Pvt Ltd

Market & Sales Forecasting

M.N. Dastur & Company (P) Ltd
PCI Systems Limited
Sadaf Steel (India) Pvt Ltd

Market Consultants

Fortis
Sadaf Steel (India) Pvt Ltd
WVN Steel Solutions GmbH

Market Planning

Sadaf Steel (India) Pvt Ltd

Merchant Banks

Fortis
Sadaf Steel (India) Pvt Ltd

Organisational Banks

Sadaf Steel (India) Pvt Ltd

Production & Inventory Planning

M.N. Dastur & Company (P) Ltd
PCI Systems Limited
Sadaf Steel (India) Pvt Ltd

HANDLING

Automatic Guided Vehicles

KAMAG Transporttechnik GmbH &
Co KG
Kasto Maschinenbau GmbH & Co
KG
Sadaf Steel (India) Pvt Ltd
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Couzens Storage Solutions
Danieli & C. Officine Meccaniche Spa
Downs Crane & Hoist Co Inc
Gesco mbH
Hubtex Maschinenbau GmbH & Co KG
ISIK Engineering Co. Ltd
KAMAG Transporttechnik GmbH & Co KG
Kasto Ltd
Kasto Maschinenbau GmbH & Co KG
Kress Corporation
Moduloc Controls Systems Ltd
Plakoma GmbH
Sadaf Steel (India) Pvt Ltd
SES Engineering
Techlifter Kft
Technical Weighing Services Inc

Bulk Solids Handling

Aumund Foerdertechnik GmbH
Canamar Technologies Inc
Clyde Materials Handling
Demag Cranes and Components
Hubtex Maschinenbau GmbH & Co KG
Kalenborn Kalprotect GmbH & Co Ltd
KAMAG Transporttechnik GmbH & Co KG
Kasto Ltd
Kirow Leipzig AG
Kress Corporation
LASE GmbH Industrielle Lasertechnik
M.N. Dastur & Company (P) Ltd
M.J. Maillis UK Ltd
Sadaf Steel (India) Pvt Ltd
Schenck Process GmbH

Bundling & Strapping

Bushman AvonTec
Danieli & C. Officine Meccaniche Spa
HPL-Neugnadenfelder Maschinenfabrik GmbH
M.J. Maillis UK Ltd
Mondi Coating GmbH
Plakoma GmbH
Sadaf Steel (India) Pvt Ltd
SES Engineering

Coil Handling

ABB Crane Systems
Acciaieria Arvedi Spa
Bradbury International UK Ltd
Bronx Engineering Ltd
Bushman AvonTec
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Danieli & C. Officine Meccaniche Spa
Demag Cranes and Components
Downs Crane & Hoist Co Inc
Gesco mbH
GIA Industri Ab
Guild International

HPL-Neugnadenfelder Maschinenfabrik GmbH
Hubtex Maschinenbau GmbH & Co KG
KAMAG Transporttechnik GmbH & Co KG
Konecranes (UK) Ltd
Kress Corporation
Lankhorst Mouldings bv
LASE GmbH Industrielle Lasertechnik
Moduloc Controls Systems Ltd
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd
Schenck Process GmbH
Scheuerle Fahrzeugfabrik GmbH
SES Engineering
Techlifter Kft
Technical Weighing Services Inc

Conveyor Rolls

Duraloy Technologies Inc
Sadaf Steel (India) Pvt Ltd
SES Engineering
STG Holdings

Conveyors

Addison Saws Ltd
Advanced Machine & Engineering Co
Aumund Foerdertechnik GmbH
BRAUN Maschinenfabrik GmbH
Clyde Materials Handling
Danieli & C. Officine Meccaniche Spa
David Brown Engineering
HPL-Neugnadenfelder Maschinenfabrik GmbH
Iprolam S.A.
Kasto Ltd
M.N. Dastur & Company (P) Ltd
Magnetic Analysis Corporation
Plakoma GmbH
Prosaw Ltd
Sadaf Steel (India) Pvt Ltd
Schenck Process GmbH
SES Engineering
STG Holdings

EOT Cranes

ABB Crane Systems
Association For Iron & Steel Technology (AIST)
Danieli & C. Officine Meccaniche Spa
Demag Cranes and Components
Downs Crane & Hoist Co Inc
ISIK Engineering Co. Ltd
Konecranes (UK) Ltd
Revas Technologies SpA
Sadaf Steel (India) Pvt Ltd

Fork Lift Trucks

Comblifit Ltd Drennan (Shanghai) Company Ltd
Hubtex Maschinenbau GmbH & Co KG
KAMAG Transporttechnik GmbH & Co KG
Kress Corporation
Sadaf Steel (India) Pvt Ltd
STG Holdings

Hot Metal Transfer

ABB Crane Systems
Aumund Foerdertechnik GmbH
Bushman AvonTec

GIA Industri Ab
ISIK Engineering Co. Ltd
KAMAG Transporttechnik GmbH & Co KG
Kirow Leipzig AG
Kress Corporation
LASE GmbH Industrielle Lasertechnik
M.N. Dastur & Company (P) Ltd
Moduloc Controls Systems Ltd
Plakoma GmbH
Sadaf Steel (India) Pvt Ltd
Schenck Process GmbH
Scheuerle Fahrzeugfabrik GmbH
SES Engineering
Technical Weighing Services Inc

Label Design Software

IML Labels & Systems Ltd

Labels

IML Labels & Systems Ltd

Marking & Tracking

Durable Mecco
Gesco mbH
IML Labels & Systems Ltd
Infosight Corporation
Kasto Maschinenbau GmbH & Co KG
LASE GmbH Industrielle Lasertechnik
Magnetic Analysis Corporation
MNI UK Ltd (Formerly Numtec Ltd)
Moduloc Controls Systems Ltd
Pannier Corp
S.T.S. Services S.R.L. Unipersonale
Sadaf Steel (India) Pvt Ltd

Metal Tags

IML Labels & Systems Ltd

Plastic Badging

IML Labels & Systems Ltd

Rail Vehicles

Canamar Technologies Inc
Hubtex Maschinenbau GmbH & Co KG
ISIK Engineering Co. Ltd
Sadaf Steel (India) Pvt Ltd
SES Engineering

Robots

Canamar Technologies Inc
Ergolift
Kasto Ltd
Kasto Maschinenbau GmbH & Co KG
M.J. Maillis UK Ltd
Sadaf Steel (India) Pvt Ltd
Zwick GmbH & Co KG

Roller Tables

Addison Saws Ltd
BRAUN Maschinenfabrik GmbH
Butech Bliss
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Danieli & C. Officine Meccaniche Spa
HPL-Neugnadenfelder Maschinenfabrik GmbH
Iprolam S.A.
Kasto Ltd
LASE GmbH Industrielle Lasertechnik

Plakoma GmbH
Prosaw Ltd
Sadaf Steel (India) Pvt Ltd
Schenck Process GmbH
SES Engineering
Wellman Thermal Technologies Ltd
Woodings Industrial Corporation

Scheduling Software

Gesco mbH
Kasto Maschinenbau GmbH & Co KG
PCI Systems Limited
Quad Infotech Inc
Sadaf Steel (India) Pvt Ltd

Self-adhesive Labels

IML Labels & Systems Ltd

Sheet Pack Handling

Bushman AvonTec
Downs Crane & Hoist Co Inc
Hubtex Maschinenbau GmbH & Co KG
Kasto Ltd
Mondi Coating GmbH
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd

Slab Handling

ABB Crane Systems
Advanced Machine & Engineering Co
Bushman AvonTec
BWG Bergwerk-und Walzwerk-Maschinenbau GmbH
Danieli & C. Officine Meccaniche Spa
Downs Crane & Hoist Co Inc
Gesco mbH
ISIK Engineering Co. Ltd
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Kasto Ltd
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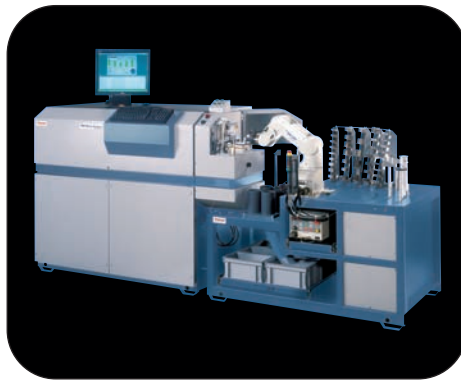
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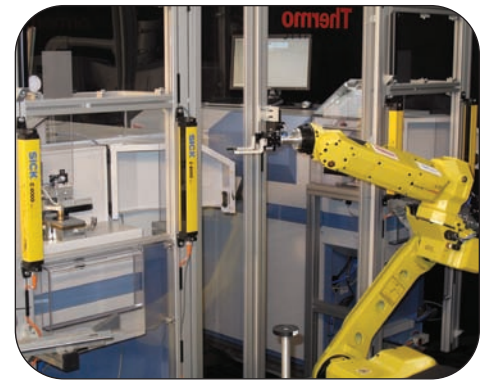
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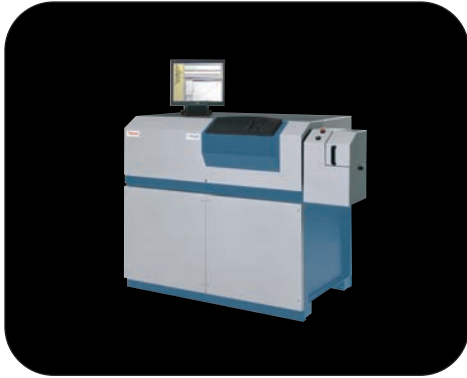
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Engin Paslanmaz
Outokumpu Oyj
Sadaf Steel (India) Pvt Ltd
Shenyang Rustproof Packaging
Material Co., Ltd
STG Holdings
Van Leeuwen Pipe and Tube Group
Yieh Corp

STOCKHOLDING EQUIPMENT

Computers

Hypertherm Europe BV
Kasto Ltd
PCI Systems Limited
Sadaf Steel (India) Pvt Ltd

Cut-To-Length Lines

Addison Saws Ltd
Bachknives, Division of Hermanite
Corp
Bradbury International UK Ltd
Bronx Engineering Ltd
Butech Bliss
Chia Far Industrial Factory Co
Couzens Storage Solutions
Danieli Fröhling
Heinrich Georg GmbH
Maschinenfabrik
Iprolam S.A.
Kasto Ltd
Kasto Maschinenbau GmbH & Co
KG
M+M Greaves (Machinery)
Pearson Panke Limited

Pinard Enterprises
Red Bud Industries
Reed Machinery Ltd
STG Holdings
Ungerer GmbH + Co. KG

Decoilers

Bradbury International UK Ltd
Danieli Fröhling
Iprolam S.A.
M+M Greaves (Machinery)
Pearson Panke Limited
Pinard Enterprises
Red Bud Industries
STG Holdings
Ungerer GmbH + Co. KG

Felt (slitting lines)

Bachknives, Division of Hermanite
Corp
Pinard Enterprises

Hydraulic Drive Systems

Drennan (Shanghai) Company Ltd
Hagglunds Drives Ltd
Iprolam S.A.

Laser Cutting

Arcelor Mittal
Hypertherm Europe BV
Sadaf Steel (India) Pvt Ltd

Laser Welding

Itta Inox SpA

Marking

Durable Mecco
Hypertherm Europe BV
MNI UK Ltd (Formely Numtec Ltd)
Pannier Corp
S+P Samson GmbH
Sparkonix (India) Pvt Ltd

Motors

Hagglunds Drives Ltd

Painting Equipment

Leighs Paints
Pinard Enterprises

Plasma Cutters

D. S. Willets (Stainless) Ltd
Hypertherm Europe BV
Sadaf Steel (India) Pvt Ltd

Polishing Equipment

Sadaf Steel (India) Pvt Ltd

Profiling Machines

Kasto Ltd
Sadaf Steel (India) Pvt Ltd
Sparkonix (India) Pvt Ltd

Power Units

Drennan (Shanghai) Company Ltd
Hagglunds Drives Ltd

Racking & Storage Systems

Couzens Storage Solutions
Kasto Ltd
Kasto Maschinenbau GmbH & Co
KG
Lankhorst Mouldings by
Pinard Enterprises
Sadaf Steel (India) Pvt Ltd

Saws

Addison Saws Ltd
Bachknives, Division of Hermanite
Corp
BRAUN Maschinenfabrik GmbH
D. S. Willes (Stainless) Ltd
Framag Industrieanlagenbau GmbH
Kasto Ltd
Prosaw Ltd
Superbolt Ltd

Shears

ASKO BV
Bachknives, Division of Hermanite
Corp
Bradbury International UK Ltd
D. S. Willets (Stainless) Ltd
Guild International
Heinrich Georg GmbH
Maschinenfabrik
Iprolam S.A.
Pearson Panke Limited
Pinard Enterprises
Red Bud Industries
Ungerer GmbH + Co. KG

Slitting Lines

ASKO BV
Bachknives, Division of Hermanite
Corp
Bradbury International UK Ltd
Bronx Engineering Ltd
Butech Bliss
Chia Far Industrial Factory Co
Danieli Fröhling
Dienes Werke Fur Maschinenteile
GmbH & Co KG
Heinrich Georg GmbH
Maschinenfabrik
Iprolam S.A.
M+M Greaves (Machinery)
Pinard Enterprises
Red Bud Industries
Reed Machinery Ltd

Software

Bachknives, Division of Hermanite
Corp
Hypertherm Europe BV
Kasto Maschinenbau GmbH & Co
KG
PCI Systems Limited

PSI Business technology For Industries GmbH

Zwick GmbH & Co Kg

Values

Hagglunds Drives Ltd

TECHNICAL INSTITUTIONS

Contract R&D

Innoval Technolugu Ltd

International Inst/Assns

HBI Association Ltd/Hot Briquetted
Iron Association (HBIA)

National Inst/Assns

Hot Briquetted Iron Association
(HBIA)
The British Association of Non-
destructive Testing

COUNTRY LISTINGS

SECTION 3

AUSTRALIA

Ausmelt Ltd
Hismelt Corporation
Major
Onesteel
Pinard Enterprises

AUSTRIA

Aichelin GmbH
Alteco Aluminiumtechnologie
Vertriebs- Und Consulting GmbH
Andritz AG
Austroplan Austrian Engineering
GmbH
Braun Maschinenfabrik GmbH
Dcm Decometal GmbH
Ebner Industrieofenbau GmbH
Framag Industrieanlagenbau GmbH
Ge Jenbacher Gas Engines
Headquarters
GFM GmbH
Inteco Special Melting Technologies
GmbH
Lenzing Aktiengesellschaft
Mondi Coating GmbH
Numtec Anlagenbau GmbH
RHI AG
Safin GmbH
Siemens Vai Metals GmbH & Co

BELGIUM

Akers Belgium
Carmeuse Group
Carmeuse SA
Centre De Recherches
Métallurgiques Crm
Cmi Industry-Groupe Cockerill
Maintenance & Ingenierie
Engineered Pressure Systems Int
NV
Esco Transmissions SA
Europickling NV
Fib-Services SA
Heraeus Electro-Nite International
NV
Heubel SA
Idees
International Stainless Steel Forum

Irm Group
Lhoist Division Western Europe
Limburgse Urethane Castings NV
Minerals Technologies Europe NV
Rotary Nozzle International
Van Heyghen Staal
World Steel Association (Formerly
IISI)

BRAZIL

Combustol Ind E Com Ltda
Confab Industrial SA
Corona Cadinhos E Refratarios Ltda
Luxor Ltda, Forging Presses
Togni S/A Materiais Refratarios

CANADA

Ajax Magnethermic Canada
Alcos Machinery Inc
Bushman Avontec
Canamar Technologies Inc
Can-Eng Furnaces International
Limited
Clayburn Industries Ltd
Empco (Canada) Ltd
Fabris Inc
Fednav Limited
George Kelk Corporation
Hardrock Systems
Hatch Ltd
Hatch Technologies Ltd
Heggie, Cochrane, Bray &
Associates Inc
Manitex Lifting Ulc
Mcmaster University
Metform International
Quad Infotech Inc
Sgs Lakefield Research Ltd
Tenova Goodfellow Inc

CHINA

Advance Technical Products Ltd
(Shanghai Office)
Air Products And Chemicals (China)
Investment Co., Ltd
Ajax Tocco Magnethermic
Baoshan Iron & Steel Co Ltd
Beta Lasermike Asia

Bloom Combustion Products, Ltd.
Boc (China) Holdings Co Ltd
China Metallurgical Import & Import
Shanghai Company
China United Engineering
Corporation
CMPI & CMIS
Control Techniques China
Drennan (Shanghai) Company Ltd
Global Link China Consulting Inc
Henkel Loctite (China) Co Ltd
Henkel Surface Technologies China
Inductotherm Metallurgical
Equipment Group
Inspectorate China
Interfax China
Isra Vision (Shanghai) Corp., Ltd
Itochu Shanghai Ltd
Jiangsu Jiangnan Group
Jiangyin Xing Cheng Special Steel
Works Co Ltd
Jiaxing Cob Bearing Inc
Julink Engineering Co Ltd
Kingland Petroleum-Gas Pipeline Co
Ltd
Minebea Electronics & Hi-Tech
Components (Shanghai
Peiport Scientific Ltd (Shanghai
Office)
Puyang Refractories Group Co Ltd
Refim China Co., Limited
Shanghai Parker Surface
Modification Co Ltd
Shanghai Santeng Electron Co Ltd
Shenyang Rustproof Packaging
Material Co., Ltd
Steel Times International
Sunary Auto Teck Ltd
Tyco Flow Control Hk Ltd

CZECH REPUBLIC

Ckd Export AS
Trinecke Zelezarny
Vúhř AS
Zdas AS

DENMARK

Disa Industries A/S

Hegnemag A/S
Magnemag A/S
Skamol A/S

EGYPT

Kandil Steel

FINLAND

ABB OY
ABB OY (Process Industry)
Outokumpu OYJ
Outotec OYJ
Senfit OY
Rautaruukki Steel

FRANCE

Timken
Air Liquide
Andrin SA
Arck Sensor
Calderys
Condat Lubricants
Converteam SAS
Delta SA
Esi Group
Fives DMS
Fives Stein
Gohin Messain
Helmke Sarl
Invensys Systems France S.A.
Jean D'Huart
Laplace Conseil
Le Gaz Integral
Leroy Somer
Nicolas Industrie SA
Nkm Noell Special Cranes GmbH
Redex
Rotelec
Savoie Refractaires
Sert Metal

GERMANY

ABB Automation GmbH
Ajotec GmbH
Albert Fezer Maschinenfabrik GmbH
Aleris Recycling (German Works)
GmbH



COUNTRY LISTINGS

Alstom Power Conversion
Amepa GmbH
Analytical Standards AB
Andritz Maerz GmbH
Arcelormittal Eisenhüttenstadt GmbH
Aumund Foerdertechnik GmbH
Badische Stahl Engineering GmbH
Ba-Messtechnik GmbH
BASF Coatings AG
Beda Oxygentechnik GmbH
Bmh Claudius Peters AG
Breitenbach GmbH
Brück® GmbH Ensheim
Bruker Axs GmbH
Bse Badische Stahl-Engineering GmbH
Bwg Bergwerk-Und Walzwerk-Maschinenbau GmbH
CMI UVK GmbH
Control Techniques Germany Converteam GmbH
Cremer Thermoprozessanlagen GmbH
CS Additive GmbH
Dango & Dienenthal Maschinenbau GmbH
Danieli Fröhling
Dastur Engineering International GmbH
Demag Cranes And Components
Didier Säurebau GmbH
Dienes Werke Fur Maschinenteile GmbH & Co KG
Dillinger Huette AG
Dr Brockhaus Messtechnik GmbH & Co KG
Durag Group
Egon Evertz GmbH & Co KG
ELG Eisenlegierungen
Handelsgesellschaft Mbh
Elster GmbH
EMG Automation GmbH
Endress+Hauser Messtechnik GmbH+Co KG
Erftcarbon GmbH & Co KG
Erhardt+Leimer GmbH
Erichsen GmbH & Co KG
EZDK Steel Europe GmbH
Ferrotron Technologies GmbH
Festo AG & Co KG
Flsmidth Koch GmbH
Flsmidth Wuppertal GmbH
Fontaine Engineering Und Maschinen GmbH
Fosbel Europe GmbH
Foseco Steel
Friedrich Kocks GmbH & Co KG
Gega Lotz GmbH
General Insulation Europe Ltd
Gesco Mbh
Glama Maschinenbau GmbH
Graphite Materials GmbH
GSB Group GmbH
Haag + Zeissler Maschinenelemente GmbH
Hauhinc Maschinenfabrik G
Hausherr, Jochums GmbH
Heinrich Georg GmbH
Maschinenfabrik
Heinrich Wagner Sinto
Maschinenfabrik GmbH
Helmke GmbH
Helmut Rübsamen GmbH & Co KG
Henkel AG & Co KG

Henschel Industrietechnik
Handlingsystems GmbH (Andromat)
Hpl-Neugnadenfelder
Maschinenfabrik GmbH
Hubtex Maschinenbau GmbH & Co KG
Hugo Miebach GmbH
I2 Technologies Ltd
IKS Klingelberg GmbH
Ims Messsysteme GmbH
Interseroh ERC
Intocast AG
ISRA Parsytec AG
ISRA Surface Vision GmbH
ISRA Vision AG
Jasper Gesellschaft Für Energiewirtschaftund Kybernetik Mbh
Josef Frohling GmbH & Co KK
Joshua Corts Sohn
Kalenborn Kalprotect GmbH & Co Ltd
Kamag Transporttechnik GmbH & Co KG
Kasto Maschinenbau GmbH & Co KG
Kettenwulf Betriebs GmbH
Kirow Leipzig AG
Klöckner Stahl Und Metallhandel GmbH
Kme Germany AG & Co KG
Koch Transporttechnik
Köppern GmbH & Co KG
Küettner GmbH & Co. Kg
Kuhlman System Kühltechnik GmbH
Künemund GmbH
Künkel-Wagner Prozesstechnologie GmbH
Lap GmbH Laser Applikationen
Lasco Umformtechnik GmbH
Lase GmbH Industrielle Lasertechnik
LDV Systeme GmbH
Lechler GmbH
Linde AG
LOI Thermprocess GmbH
LWB Refractories
M+W Maschinen Und Werkzeugbau GmbH
Man Ferrostaal AG
Man Turbo AG
Metallurgica GmbH & Co.KG
Mitex Gummifabrik Hans Knott GmbH
Morgardshammar AB
Mts Sensor Technology GmbH & Co KG
Müller Weingarten AG
Oschatz GmbH
OSI Software
Outotec
Phd Frankfurt GmbH
Pieper GmbH
Plakoma GmbH
Polysius AG
Polytec GmbH
Presstrade Handelsgesellschaft Mbh
Prüftechnik Alignment Systems GmbH
PSI Business Technology For Industries GmbH
Raytek GmbH
Refratechnik Steel GmbH
Rheinbraun Brennstoff GmbH

S+P Samson GmbH
Saar-Metallwerke GmbH
Salzgitter Ag
SAP Deutschland AG & Co KG
Schäfer & Urbach GmbH & Co. KG
Schalker Eisenhütte
Maschinenfabrik GmbH
Schenck Process GmbH
Scheuerle Fahrzeugfabrik GmbH
Schwartz GmbH
SGL Carbon GmbH
Shell Deutschland Schmierstoff GmbH
Sick AG
Siemens AG Industrial Solutions & Services
Siemens Vai Metals Technologies GmbH
Sket Maschinen Und Anlagenbau GmbH
SMS Mevac GmbH
SMS Siemag AG
Spectro Analytical Instruments GmbH
Spicer Gelenkwellenbau
Stein Industrie-Anlagen
Steinert Elektromagnetbau GmbH
Sudamin Rohstoff GmbH
Tenova Loi Italmipainti
Tenova Takraf
Thermo Scientific
Thyssenkrupp Nirosta GmbH
Titan Umreifungstechnik
TML Technik GmbH
TMT - Tapping Measuring Technology GmbH
Tschan GmbH
UHDE GmbH
Ungerer GmbH + Co. KG
V & M Deutschland GmbH
Velco GmbH
Ventilatorenfabrik Oelde GmbH
Voith Turbo GmbH & Co KG
Walzen Irle GmbH
Weerulin Feuerfeste Produkte GmbH & Co KG
Woko Magnet Und Anlagenbau GmbH
Ws Wärmeprozessstechnik GmbH
Zimmermann & Jansen GmbH
Zwick GmbH & Co KG

HONG KONG

Rawmart.Com.Inc

HUNGARY

Techlifter Kft

INDIA

Aakanksha Steel And Alloys
Air Systems Limited
Ajoy Chemical Industries
Boch & Fernsh Inc
Control Techniques India
Epic Consulting Pvt Ltd
Gontermann-Peipers (India) Ltd
Ispat Industries Limited
Joneja Bright Steels Pvt Ltd
M C Mowjee & Co Pvt Ltd
M.N. Dastur & Company (P) Ltd
Mahindra Steel Service Centre Ltd
Mecon Ltd
Mid India Engineering Limited

Ocl India Ltd
Raipur Alloys & Steel Ltd
Sadif Steel (India) Pvt Ltd
SMS Demag Pvt Ltd
Sparkonix (India) Pvt Ltd
Steel Authority Of India Ltd
Tata Refractories Limited
Wavacurrent Automotives Ltd

IRAN

Donyaye Flez Co

IRELAND

Aisle-Master Ltd
Combilift Ltd

ISRAEL

Ast Accurate Sensors Technologies

ITALY

Acciaieria Arvedi Spa
Ansaldo Sistemi Industriali S.P.A
Arinox Spa
Aso Siderurgica Srl
Atomat Spa
B Pacorini Spa
Comac Environment
Continuus Properzi
Control Techniques Italy
Costacurto
Dalmine Spa
Danieli & C Officine Meccaniche Spa
Danieli Centro Combustion Spa
Elettromeccanica Viotto Srl
Fata Hunter Division Of Fata Spa
Finarvedi Spa
Hypertherm Europe Bv
Iita Inox Spa
Maina Organi Di Trasmissione Spa
Marcegaglia Spa
Metalgoi Siderurgica Spa
OM Impianti Srl
Ravagnan Spa
Revas Technologies Spa
S.T.S. Services S.R.L. Unipersonale
Sidermontaggi Spa
Slingofer Meccanica S.P.A
Sms Meer Spa
Stam Spa
STB Tecnosiderurgica Bresciana Srl
STS S.R.L.
T T Tomorrow Technology Spa
Tamini Trasformatori
Tecnomagnete Spa
Tenova Loi Italmipainti
Tenova Melt Shops
Tenova Pomini
Tenova Spa (HQ)
Tenova Strip Processing
Tenova Takraf
Termokimik Corp - Impianti E Procedimenti Industria
Thermocast S.P.A
Vereco Srl
Vezzani Spa

JAPAN

JP Steel Plantech Co

KENYA

Polypipes Ltd

KOREA

ISRA Parsytec Asia Pacific Co., Ltd
Posco Engineering & Construction Co Ltd

LUXEMBOURG

Arcelor Mittal
Paul Wurth SA
Tinfos Nizi SA
Tinfos Nizi SATMT - Tapping Measuring Technology Sarl

MEXICO

AMI Ge
Tenova HYL

NORWAY

Fesil Holding AS
Irtch AS
North Cape Minerals
Tinfos Jernverk A/S

POLAND

Cut N' Form Sp Zo Z
Polski Koks Sa

ROMANIA

Elsid
Iprolam S.A.
Metalexportimport Sa
S C Casirom Sa
Uzinexport Sa

RUSSIA

Aa Imars Group
Control Techniques Russia
Electrostal Heavy Engineering Works (Eztm Jsc)
Ferrostaal Ag Moskau
Omk United Metallurgical Company
Quantor Ltd
Specta AG
Sytko AG
TMK Pipe Metallurgical Company

SAUDI ARABIA

Saudi Iron & Steel Company (Hadeed)
Sidc Metal Coating Company

SCOTLAND

Foseco Steel UK Ltd

SINGAPORE

BHP Billiton Marketing Asia Pte Ltd

SLOVENIA

Ravne Knives

SOUTH AFRICA

A.J. Charnaud & Co (Pty) Ltd
Control Techniques Southern Africa Pty Ltd
Tenova Pyromet

SPAIN

Bascotecnia

Control Techniques Spain
Grupo Ferroatlantica
Magnesitas Navarras SA
Procome SA
Russula Engineering & Automation
Siderex (Spanish Association Of Steelworks Exporters)

SULTANATE OF OMAN

Sohar Steel LLC

SWEDEN

AB Sandvik Hard Materials
ABB AB Force Measurement
ABB Crane Systems
Agellis Group AB
Becker Industrial Coatings AB
Brokk AB
Ergolift
Esab AB
Gem Reklambyra AB
Gia Industri AB
Hagglunds Drives AB
IFA Production Development AB
Kanthal AB
Lamiflex AB
Limab
Lkab
Metal Process Control AB
Morgardshammar AB
Outokumpu Fabrication Technologies AB
Precimeter Control AB
Renholmen Mekaniska Verkstad AB
Sandvik Materials Technology
Scanarc Plasma Technologies AB
Sund Birsta AB
Tawi AB
UHT Uvan Hagfors Teknologi

SWITZERLAND

Endress+Hauser
Ferrexpo AG
FMS AG
Fuchs Technology AG Switzerland
Grip Engineering AG
Interstop Flow Control Technology
Mannweiler Consulting
Mtag Marti-Technologie AG
Nucor Trading SA
Osterwalder AG
SGS AG
SMS Concast AG
Spirig Ernest Dipl Ing
Steel Trading.Com SA
Stopinc AG
Timcal Ltd
Truninger Ag
Vwn Steel Solutions GmbH
Walter & Bai AG
Xstrata Plc
Zumbach Electronic AG

SYRIA

Steel Max Co

TAIWAN

Chia Far Industrial Factory Co
Yeun Chyang Industrial Co Ltd
Yieh Corp

THE NETHERLANDS

Asko Bv
Capricorn Bv
Control Techniques Netherlands
Danieli Corus
Fortis
Hascor Bv
Hypertherm Europe Bv
Kbm Affilips Bv
Lankhorst Mouldings Bv
Noxon Stainless Bv
Panalytical Bv
Quaker Chemical Bv
Quintiq
Skf Group Communications
Van Leeuwen Pipe And Tube Group

TURKEY

BNB
Uluslararası Medya Yayincılık Ve Ticaret Ltd
Control Techniques Turkey
Engin Paslanmaz
Ilhanlar Haddecilik
Isik Engineering Co Ltd
Sistem Teknik Industrial Furnaces
Turbosan Turbomachinery Industry

UAE

Dresser Roots Middle East
Mesteel.Com

UK

AB Controls & Technology Ltd
ABB Automation Ltd
ABB Ltd
Able Instruments & Controls Ltd
ABP Induction Ltd
Addison Saws Ltd
Advanced NDT Limited
Air Products Europe
Alex Stewart Assayers Limited
Allington - Steel Co
Amodil Supplies Ltd
Atkins
Babcock International Group Plc
Bartondale Engineering
BASF Coatings
Baytek Systems
Becker Industrial Coatings Ltd
Benetec Ltd
Blackburn Starling & Company Limited
Bodycote Treatments Ltd
Bosch Rexroth Limited
Bradbury International UK Ltd
British Federal Resistance Welding Ltd
Bromford Iron & Steel Co Ltd
Bronx Engineering Ltd
Bronx/Taylor-Wilson Ltd
BSS Industrial
Camlok Lifting Clamps Ltd
Caparo Merchant Bar Plc
Capital Refractories Limited
Carbolite
Carbon Trust (The)
Carrs Products Limited
Carter Environmental Engineers Ltd
Cashmores Metals Ltd
Castmaster Rolls Company Ltd
Cat Pumps (UK) Ltd
CJM Asset Management
Clyde Materials Handling
CMC UK Ltd
CMPR
Coface UK
Computer Imprintable Label Systems Ltd
Consarc Engineering Limited
Control Techniques UK - Telford
Converteam UK Ltd
Cooper Roller Bearings Co Ltd
Corewire Limited
Corus Construction & Industrial
Corus Process Engineering
Couzens Storage Solutions
CSC-Scomagg Ltd
C-Tech Innovation
D A Stuart Ltd
D S Willetts (Stainless) Ltd
Danthem Filtration Ltd
Datapaq Limited
David Brown
Davymarkham Limited
De Belder Associates
Delavan Spray Technologies
Demag Cranes & Components Ltd
Denison Mayes Group Ltd
DH Computers
Dialog
DMA Europa Ltd
DSF Refractories & Minerals Ltd
Duscovent Engineering Ltd
Dustolex Ltd
Dyson Precision Ceramics
Dyson TT
E Braude (London) Ltd
Edward Symmons
Edwards Vacuum
Efco Ltd
Elster Metering Ltd
Emerson Control Techniques
Emerson Process Management Ltd
Eriez Magnetics Europe Ltd
Erwin Sick Ltd
Euro Rscg - Riley
Eurostrategy Consultants
Evadx Ltd
Falcon Steel Ltd
Fibretech Technology Ltd
Filtration Services Ltd
Fischer Instrumentation (GB) Ltd
Fives North American Combustion UK Ltd
Foundrax Engineering Products Ltd
Gega Lotz Ltd
Grays Engineering
Group Rhodes Ltd
Hadley Group
Harbison-Walker Refractories Ltd
Hawco Ltd
Heraeus Electro-Nite (UK) Ltd
HG Systems
Higgins And Hewins Ltd
Hillcrest Structural Ltd
Hoben International Ltd
Honeywell Sensing & Control
Horiba Scientific
Huntingdon Fusion Techniques Ltd
Hydro Coatings
Hydrotechnik UK
Hytec Electronics Ltd
Iml Labels And Systems Ltd
Inductotherm Heating & Welding Technologies Ltd
Injection Alloys
Innoval Technology Ltd

COUNTRY LISTINGS

- Inspectorate International Ltd
 Insteng Process Automation Ltd
 Invensys Eurotherm Ltd
 Invensys Systems UK Ltd
 John M Henderson & Co Ltd
 Jumo Instrument Company Ltd
 Kaltenbach Ltd
 Kanthal Ltd.
 Kasto Ltd
 Kelman Ltd
 Key Industrial Equipment Ltd
 Kiveton Park Steel Ltd
 Koch Metals Trading Ltd
 Konecranes UK Ltd
 Konecranes UK Ltd
 Koso Kent Introl Ltd
 Kromschroder (UK) Ltd
 Land Instruments International
 Lankhorst Recycling (UK) Ltd
 Lanner Group Ltd
 Lechler Ltd
 Lee-Dickens Ltd
 Leighs Paints
 Linston Limited
 Lloyds British Testing Ltd
 Lodge Cottrell Ltd
 London & Scandinavian Analytical Services - LSM-Analytical Services
 LWB Refractories
 M J Maillis UK Ltd
 M+M Greaves (Machinery)
 Mackey Bowley International Ltd
 Maclellan International
 Mayerton Refractories Ltd
 Megatron Ltd
 Meltech Ltd
 Metalloyd Ltd
 Metalock Engineering UK Ltd
 Metalogic
 Micromotive
 Mittal Steel Company Ltd
 Mitutoyo (UK) Ltd
 MNI UK Ltd (Formerly Numtec Ltd)
 Mobrey Measurement
 Moduloc Controls Systems Ltd
 Monocon International Refractories Ltd
 Monometer Holdings Ltd
 Morgan-Europe Ltd
 Morris Material Handling Ltd
 Motherwell Bridge Industrial Ltd
 Motoman Robotics UK
 Multiserve Plc
 Multon Process Technology Ltd
 Nabertherm Ltd
 Natixis Commodity Markets Ltd
 NDT Equipment Services Ltd
 NDT Equipment Services Ltd
 Newelco
 Niagara Lasalle UK Ltd
 Nixon Industrial International Ltd
 Northern Instruments (Leeds)
 Oilgear Towler
 Olympus Industrial
 Our Metals Ltd
 Panalytical Ltd
 PCI Systems Limited
 Pearson Panke Limited
 Pepperl+Fuchs Gb Ltd
 Polysius Ltd
 Procon Engineering Ltd
 Prosaw Ltd
 Pulsar Process Measurement Ltd
 Quadcom Ltd
 Rainham Steel Co Ltd
 Raytek UK Ltd
 Rdp-Howden Ltd
 Reed Machinery Ltd
 Renold Hi-Tec Couplings (Formerly Holset)
 Ringspann (UK) Ltd
 Rochester Partnership Ltd
 Rolling Transport Systems Ltd
 Ryder Plc
 Sarclad Ltd
 Scantron
 Schaeffler (UK) Ltd
 Schenck Process UK Ltd
 Seram UK Ltd
 Sheffield Forgemasters International Ltd
 Sheffield Industrial Saws Ltd
 Sheffield Refractories Ltd
 Shell
 Sick (UK) Ltd
 Siemens Vai Metals Technologies Ltd
 Silvent UK Ltd
 Sirco Controls Ltd
 SKF (UK) Limited
 Skil Environmental Ltd
 Sms Mevac UK Ltd
 Sonatest Ltd
 Spectro Analytical UK Ltd
 Spraying Systems Ltd
 Stadco Cooling
 Steel Times International
 Stemcor
 STG Holdings
 Strap Ex
 Superbolt UK Ltd
 Superior Filtration Ltd
 Systech Instruments
 Ten-25 Software Ltd
 Tentec Ltd
 Tetronics Ltd
 Textron (Europe)
 The British Institute Of Non-Destructive Testing
 The L S Starrett Co Ltd
 Thermal Ceramics
 Thermo Fisher Scientific
 Tyco Electronics UK Ltd
 UK Carbon & Graphite Co Ltd UK Cares
 Unico (UK) Ltd
 Unifrax Limited
 USF Spencer Halstead
 Veritec Sonomatic Ltd
 Vesuvius UK Ltd
 Voith Turbo Ltd
 Weber Shandwick
 Weber Shandwick Technology
 Wedge Group Galvanizing Ltd
 Welding Alloys Group
 Wellman Thermal Technologies Ltd
 West Instruments Ltd
 Zwick Testing Machines Ltd
 Accelerated Technologies Corporation
 ADS Machinery Corp
 Advanced Machine & Engineering Co
 Air Products And Chemicals Inc
 AirSep Corp - Commerical Products Division
 Ajax Tocco Magnethermic Corporation
 Akzo Nobel
 Alfa Laval
 American Sensors Corp
 Ametek Land Inc
 Anguil Environmental Systems, Inc
 Asko Inc
 Association For Iron & Steel Technology (Aist)
 ATP Co Inc
 Atsi Inc
 Automation Products Inc
 Avon Bearings Usa
 Avtron Industrial Automation Inc
 Bachknives, Division Of Hermanite Corp
 Bardons & Oliver Inc
 Berry Metal Co
 Bha Group Inc
 Bloom Engineering Inc
 Borax
 Bradley Lifting Corp
 Bricmont Inc
 Bronx International, Inc.
 Bushman Avontec
 Butech Bliss
 Capco Machinery Systems Inc
 Carmeuse Lime & Stone
 Casey Equipment Corp
 Ch2M Hill
 Charles A Hones Inc
 Cognex
 Conco Systems Inc
 Cone Drive Textron
 Control Techniques Americas
 Danieli Corporation
 Delta Brands Inc (US)
 Dick Corp
 Downs Crane & Hoist Co Inc
 Durable Mecco
 Duraloy Technologies Inc
 Dustex Corporation
 Dynamic Systems Inc
 Edgen Murray
 Electronic Development Labs, Inc
 Elwood Corp
 Eriez Magnetics
 ESM Group Inc
 Eurotherm Ltd
 Everlube Products
 Fives North American Combustion Inc
 Fosbel Inc
 Galaxie Corporation
 GFG
 Global Gauge Corp
 GMD Environmental Technologies, Inc.
 A Ceco Environmental Company
 Graco Inc Corporate
 Graftech International
 Graftech International
 Guild International
 H2Gen Innovations, Inc
 Harris
 HBI Association Ltd
 He Phipps Co Inc
 Herr-Voss Stamco
 Hickman, Williams & Co
 HOH Systems Inc
 Horsburgh & Scott Co, The
 Hot Briquetted Iron Association (Hbia)
 I2S LLC
 Inductoheat/Usa
 Inductotherm Corp
 Infosight Corporation
 Ircon, Inc
 ISRA Surface Vision Inc
 ISRA Vision Parsytec Inc
 Jervis B Webb Worldwide Co
 Joslyn Hi-Voltage Corp
 Konrad Corporation
 Kress Corporation
 L & L Special Furnace Co Inc
 Lang Machinery Co Inc
 Lintern Corporation
 Machinery International Corporation
 Magnetic Analysis Corporation
 Midrex Technologies Inc
 Morgan Construction Co
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What makes Outotec an ideal technology partner for so many iron and steel producers all over the world? In today's competitive business environment, technological excellence and experience in both engineering and project execution are essential to remaining a player in the roller coaster market.

The majority of the world's iron ore sintering and pelletizing plants use Outotec's traveling grate process, which is the prime technology for large capacities and guarantees high product quality and low operational costs. Utilizing Outotec's traveling grate technology, Samarco's indurating furnace in Brazil is the world's largest, producing beyond the design capacity 7.25 million tpa of high-quality iron ore pellets.

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We understand how important it is to have someone on the ground locally ready to serve your needs and that is why we have offices in 21 countries and a global network of agents.

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