Making a material difference
Steel products and expertise to help you grow

Lifting & Excavating
TATA STEEL

Tata Steel is one of Europe’s largest steel producers. We serve many different and demanding markets worldwide, including lifting and excavating, aerospace, automotive, construction, energy & power, rail and packaging.

Our primary steelmaking operations in the UK and the Netherlands are supported by a global sales, processing and distribution network. Innovation and continuous improvement are at the heart of our performance culture. We aim to create value by offering a sustainable and value-added steel product range supported by unrivalled customer service. By working in partnership with you, we find the best solutions to meet your needs and help your business to perform.

Our European operations are a subsidiary of Tata Steel Group, one of the world’s top ten steel producers. With a combined presence in nearly 50 countries, the Tata Steel Group including the Europe operations, Tata Steel Thailand and NatSteel Asia, has approximately 80,000 employees across five continents and a aggregate crude steel production capacity of over 28 million tonnes.

We are committed to supplying innovative steel solutions that add real value to our customers’ operations. We strive to form productive working partnerships with customers, no matter how large, small or specialised their requirements are.

Our product range is extensive, our distribution network is global and we understand how our processes and products have a positive impact on our customers’ success in their markets.

Lifting and excavating is a diverse industry with customers operating in a range of sub-sectors. These include:
- Construction and earthmoving equipment
- Material handling equipment
- Cranes
- Mining machinery
- Trailers
- Agricultural equipment
- Forestry equipment

Continuous investment in advanced downstream processing facilities at our service centres gives us the capability to supply steel cut and finished to exact size, shape and specification. This reduces the time it takes to get material into customers’ production cycles and cuts operating expenses and material waste.

We partner many leading lifting and excavating equipment manufacturers around the world.

Tata Steel is a leading steel provider to manufacturers of machinery used in the movement or extraction of materials and goods. This includes heavy construction and earthmoving equipment, mining machinery, cranes and forklift trucks, as well as agricultural and forestry equipment and trailers.

THE LIFTING & EXCAVATING SECTOR

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Machines for earthmoving and construction need to be reliable, robust and efficient. So do the materials they are made from.

Understanding your business

Beneath the mud, every one of these machines is as carefully designed and built as any high-performance car. Machine users demand efficiency, productivity and robustness. Machine makers demand steels that are easy to cut and weld and are strong and resilient. They also demand services that support their specification, design, engineering and manufacturing activities and their requests for data – delivered by approachable and responsive people.

Tata Steel delivers in all these areas – and more.

For many years, Tata Steel has been working closely with some of the world's top names in construction and earthmoving equipment. We’ve listened, we’ve learned and we’ve responded to our customers' needs.

We make it our business to understand the issues and challenges facing machine makers in this demanding market. Our market experience means we have an acute insight into how our expertise in steel can help customers to meet those challenges. For instance, we know that as fuel prices rise, efficiency and fuel economy in operation are vitally important to machine users. Our expert team works collaboratively with machine manufacturers to ensure that the best design combines with the best choice of steel for the job.

We remain committed to learning and growing alongside our customers – helping them to improve their business performance and succeed in the marketplace.

How we can help

Tata Steel produces a wider range of the steel products used in construction and earthmoving equipment than any other steel producer. This gives us unrivalled flexibility to tailor our steel products to meet the individual requirements of each equipment maker. Our multi-product offering, combined with a single coordination point for orders, also provides customers with opportunities to simplify their supply chain – saving time and effort.

Our product portfolio includes:

- Abrasion resistant steels for wear part applications
- High strength steels for telescopic boom arms
- High quality structural steels for chassis and other components
- Special profiles for track shoe sections
- Bevel flat sections for dozer blades and buckets
- Engineering grade bar products for engine applications
- Slider bars for Backhoe Loaders
- Structural hollow sections for cabin structures
- Tubes for hydraulic applications

Tata Steel's global network ensures that we can support customers' operations on a local basis in both established and emerging markets. Our technical team is on hand to advise customers on steel selection and processing to suit specific applications. Experts at our research, development and test centres are keen to share their expertise with customers on a range of manufacturing-related issues and product performance.

Ongoing investment enables us to offer advanced material processing and fabrication facilities. Strategic use of these facilities enables customers to maximise operational efficiency. We supply material cut and finished to exact size, length, shape and specification. We can even supply welded assemblies and plasma or laser-cut precision blanks to reduce the time it takes to get material into our customers’ production cycles. Other customer benefits include a reduction of material stocks, waste and scrap-handling costs.

Making a difference

Our collaborative approach has already reaped benefits for many of our customers in the construction and earthmoving sector. Together, we have successfully tackled design, production and product performance challenges resulting in improved products and cost and waste reduction through improved manufacturing efficiency and optimised part count. Typical issues addressed have included:

- Improvements in strength-to-weight ratio for more efficient machinery
- Fatigue investigation to ensure strong, reliable products
- Component substitution to reduce processing costs
- Welding processes for ease of fabrication and product performance
MATERIAL HANDLING EQUIPMENT

Agility, efficiency and low levels of maintenance are all on the list of requirements for material handling machines. Our steel expertise and broad product portfolio are helping machine manufacturers to tick all the boxes.

Understanding your business
In the quest to produce ever more efficient and capable material handling equipment, machine makers are demanding steel components that are stronger, lighter and more wear-resistant. At Tata Steel, we are sharing our steel expertise with customers - helping them to improve their products and succeed in the marketplace.

We work hard to understand your business and the market in which you operate. Our long relationship with leading equipment manufacturers in this sector has given us a keen insight into the world of material handling. We’ve developed a sound understanding of how these machines must perform and of the issues facing machine manufacturers. We’re committed to learning more and to keeping abreast of current and future challenges. Maintaining links with relevant industry bodies is an important part of our continued desire to understand the markets where our customers operate.

We understand that machine users want hard-working, nimble and efficient machines with a reliably low cost of ownership. We exploit our knowledge of steel and its application to help manufacturers achieve these aims whilst maintaining manufacturing efficiency.

How we can help
Tata Steel produces a wide variety of steel products for material handling machines. With special profiles, plate, hot rolled strip, engineering grade bar and tubes all on offer, we would argue that it is the most extensive range of products on the market. This gives us enormous scope to meet each customer’s specific requirements. Our multi-product portfolio, combined with a single point of coordination provides customers with opportunities to simplify their supply chain - saving time and effort.

Our product range includes:
- Bespoke and standard mast sections
- Carriage bars and flat profiles for fork arms
- Profilled steel for chassis and body parts
- Engineering grade bar products for driveline components
- Tubular steels for rollover and falling object protective structures (ROPS and FOPS)

Tata Steel’s global network of manufacturing sites and sales offices ensures that we can support customers’ operations on a local basis in both established and emerging markets. Our technical team is on hand to advise customers on steel selection and processing to suit specific applications. Experts at our research, development and technology centres are keen to share their expertise with customers on a range of manufacturing-related issues and product performance.

Our proven capability in steel processing and fabrication ensures component production of the highest quality. Strategic use of our service centres enables customers to maximise operational efficiency and focus on their core business. Together, our teams have a wealth of experience in handling and processing steel. The services they provide include decoiling and laser cutting, welding and a range of processes including beveling, milling, punching and drilling.

Working and growing together
We like to work in partnership with our customers - on a practical, day-to-day level and also in pursuit of long-term strategic goals. We share our experience and steel expertise to help customers improve their product performance and to maximise the efficiency of their own design and manufacturing operations. This can include joint investigations to reduce part count and related processing time.

Making a difference
By working together, we can add value from the outset of product design and development. For instance, our specialist knowledge of steel – its chemistry, properties, processing and application - helps our customers to specify the best steel grade for enhanced machine agility and improved lifting capacity. Our steel know-how is also helping manufacturers to produce hard-wearing machines with a low cost of ownership.
Cranes must work hard to earn their keep. Crane producers are seeking to satisfy demand for increased performance levels - whilst keeping firm control of manufacturing costs.

Understanding your business
Cranes are tailored for specific use in activities ranging from construction to mining, manufacturing to shipping. But there is one thing that they all have in common – users with high expectations. Today’s crane users want reliability, durability and stability. As a knowledgeable, proven and flexible steel supplier, we can help ensure that crane producers meet market demands.

At Tata Steel, we have extensive materials expertise and we make it our business to understand your business. We know that our customers are constantly striving to achieve efficiencies in design, procurement and manufacturing and product knowledge allows us to support our customers in these areas. We understand that crane manufacturers need to be confident that they have the best steel for the job. We're proud to say that we’re still listening and we’re still learning.

By understanding the issues and legislation affecting your marketplace, we are much better placed to anticipate and respond to your needs.

Our work in the crane sector means we fully appreciate the huge demands on manufacturers. More and more users expect their cranes to work even harder – lifting heavier loads to increased heights. We recognise that crane makers are being called upon to increase performance levels whilst maintaining crane safety.

Through our work with customers and our close contact with trade organisations, we are keeping abreast of the key operational and legislative drivers in machine development in the crane market.

How we can help
We recognise the important role played by our steel in the production of safe and robust cranes. Our customers know they can rely on us for the demanding products required for crane manufacture.

Our knowledge and extensive product range provides clear benefits for crane manufacturers. It allows us to work with customers to identify and provide the right steel solution for the job. Our multi-product portfolio and associated steel processing services also provide opportunities for customers to simplify their procurement chain, extend capacity and maximise their own manufacturing flexibility.

Our range of steels and products have been developed to meet demanding applications, this includes:
- High strength steel strip and plate for booms and chassis
- Hot and cold formed hollow sections for tower cranes
- Special profiles for track shoe sections
- Engineering grade bar products for engine applications
- Profiled parts for mobile and telescopic cranes
- U-shaped profiles for boom channels
- Rails for gantry cranes
- Equal and unequal angles for tower cranes

Making a difference
Typical ways in which we can add value by sharing our expertise include helping our customers arrive at the optimum balance between processing performance and material performance, by providing technical advice, specialist testing from our R&D centres and also inventory management.

A good example of this is a joint project undertaken with a customer to find a cost-effective production route for a next generation boom design. The product re-design had fewer weld operations and also moved welds away from areas of higher stress in the finished structure.

Working and growing together
Experience has shown us the benefits of working in partnership with our customers. The more we understand about our customers’ needs and issues, the more we can identify ways of helping customers to grow and reach their goals.

By working collaboratively, we can exploit our knowledge of steel and its application to deliver product performance benefits and to cut cost and waste from the production cycle.
MINING MACHINERY

Mine operating companies demand reliable, robust and fuel-efficient machinery that can extract a variety of material, often in extreme environments. Tata Steel is working with equipment producers to satisfy those demands.

Understanding your business
Our steel is used in a vast array of machinery and vehicles for underground and surface mining operations. Each piece of equipment must be carefully designed and built to meet exacting demands. To succeed in this dynamic marketplace, equipment manufacturers need to be able to rely on steel that delivers.

At Tata Steel, we’ve been working with the manufacturers of mining equipment for many years. We’ve listened to what they have to say, we’ve taken note of their needs and we’ve studied their equipment in use. Not surprisingly, our experience has taught us a lot about the mining machinery sector and about how our steel know-how can give our customers – and their customers - an edge.

We know that our customers are constantly striving to achieve efficiencies in design, procurement and manufacturing and our extensive expertise in high strength steels allows us to support our customers in these areas. We understand that equipment manufacturers need to be confident that they have the best steel for the job. Reliable and consistent steel quality is imperative for the assurance of safety, the avoidance of costly machine downtime and the delivery of critical properties such as exceptional wear resistance in service. We’re proud to say that we’re still listening and we’re still learning. Our team is investing time and energy to ensure that we continue to keep abreast of technological, operational and legislative developments in the mining sector.

How we can help
First and foremost, we know steel. We’ve been developing it, manufacturing it and processing it for many decades. We continue with significant investment into research and into the study of steel application in a wide range of sectors including mining machinery. But, more importantly, we are keen to share that knowledge and expertise with our customers, in order to improve their manufacturing efficiency.

Our multi-product portfolio provides opportunities for simplifying your procurement chain and includes:
- Components for manufacturing armoured face conveyors include wear-resistant plates for upper deck plates and special profiles for sigma sections
- RQT® quenched and tempered plates for chassis and safety-related structures such as roof supports
- Abrazo® abrasion-resistant steels for wear parts
- Special profiles for track shoe sections
- Engineering grade bar products for pistons and pins
- Many more steel products such as tubes, sections and strip

Working and growing together
We work in partnership with our customers – on a day-to-day basis and on a long-term strategic level - to help them improve their business performance.

Specialists at Tata Steel’s extensive research, development and test facilities are also keen to share their expertise. Customers can take advantage of application testing facilities and work alongside us to resolve a range of engineering issues including fatigue performance.

Making a difference
Typically, our technical teams work closely with customers to achieve an optimum balance of part performance and both ease and efficiency of manufacture. For instance, we advise customers on the selection of appropriate wear-resistant steel, using our application knowledge and our in-depth understanding of the behaviour of steel during fabrication.

This collaborative approach ensures that we are well-placed to exploit our expertise and add value to our customers’ machines and operations.
Trailers are designed to carry versatile load types. Flexibility and light weighting solutions to increase payload are common design aims. Tata Steel expertise can help our customers realise these aims.

Understanding your business
Today’s trailers are carefully designed and built to meet demanding performance requirements - users are demanding more and more from their trailers. At Tata Steel, we are keen to share our steel expertise with trailer manufacturers - helping them to help deliver robust, weight-efficient products.

When efficiency is determined by optimising the payload, the choice of trailer components is critical. We understand this and are working hard to ensure that we exploit our expertise in steel to supply high-strength steels ideal for lightweighting solutions for trailer construction. We also recognise that in addition to lightweighting solutions, in the construction industry for example, users need trailers made from materials that wear less and last longer.

At Tata Steel, we are working hard to expand and utilise our sector knowledge. We are making it our business to keep abreast of operational, technological and legislative drivers in the trailer market. By combining our understanding of the market and our proven steel know-how, we believe we can help trailer manufacturers to perform at their best.

How we can help
Our broad product portfolio for the trailer market provides an opportunity for trailer manufacturers to simplify their supply chain - saving time and money.

We offer:
- Abrasion-resistant steels for wear parts
- High strength steels for low weight trailer chassis
- Steel strip for tanker and fabrication parts for tipper bodies
- Tubes for guard and under-run rails
- Quenched and tempered plate for structures and sub-assemblies
- Engineering grade bar products for hydraulic pistons, pivot-pins and mechanisms

Our ongoing investment in advanced steel processing and fabrication facilities provides a reliable manufacturing option for trailer components. These facilities offer an efficient route for low-volume production.

Working and growing together
Our technical team is available to work alongside customers to provide advice and guidance on a range of design and production issues. This includes conceptual design advice in the early design phase, to avoid cost at the very beginning and materials expertise to advise in the specification of steels. This ensures the optimum balance of in-use performance and ease of manufacture. Reduced part count and waste reduction are also typical benefits of our collaborative approach. Specialists at Tata Steel’s extensive research, development and testing facilities are keen to share their expertise and application testing facilities to help our customers perform in the marketplace.

We are committed to the continuous improvement and the refinement of our products and services. We are well-placed to help our customers to succeed.
Reliability, durability and efficiency. These are the watchwords for hard-working machinery in the world of agriculture and forestry. Equipment manufacturers need steel products and services that they can depend on.

Understanding your business
There is a wide array of purpose-built machinery on the market for agricultural and forestry use - from combine harvesters to balers, skidders to felling equipment. These machines are often subject to demanding duty cycles. Machine users demand efficiency, productivity and robustness. Machine makers demand steels that are easy to cut and weld and are strong and resilient. They also demand services that support their specification, design, engineering and manufacturing activities and their requests for data – delivered by approachable and responsive people. With our proven track record in steel, we believe we can help equipment manufacturers to succeed in this market.

At Tata Steel we work hard to understand the issues and challenges facing our customers. We recognise the critical role played by our wear-resistant steel in the agriculture and forestry equipment sectors. We know that reduced wear is important to machine users in minimising machine downtime and maximising productivity. We also appreciate that the choice and application of steel can have a big impact on fuel efficiency and manoeuvrability. This understanding underpins our ability to work in the most productive way possible with equipment manufacturers.

How we can help
Tata Steel’s products include the RQT® range for very high strength requirements and Abrazo® steel plate products developed for long service life in abrasive conditions. This reduces the effect of unscheduled maintenance and minimises the life-cycle impact of machinery. Our multi-product offering also encompasses high carbon steel, hollow sections, special profiles and engineering grade bar – providing customers with an opportunity to simplify their procurement process.

Customers can also take advantage of our network of steel processing and fabrication centres to maximise their own production flexibility. Our experienced operators are skilled in steel handling and fabrication and have a track record in the production of components to exacting standards.

Working and growing together
We believe we can best add value by working closely with our customers – using our knowledge of steel to help them to optimise component design, in-service product performance and their own production processes. In addition to the advice and support available from our technical team, we offer application testing and specialist services through our network of research, development and testing facilities. For instance, we can advise on the best high-strength steels for sprayer arm stiffness or investigate wear-resistance properties for hard-working plough components.
EVERY STEP OF THE WAY

Tata Steel is bringing a fresh approach to the lifting and excavating industries. From concept stage to production, we are assisting our customers to perform in their markets, every step of the way.

Our expertise in materials selection, processing and applications complements our customers’ own strengths in world-beating design, assembly and production of machines.

Tata Steel’s technical team, strengthened by a team of engineers, is working to provide the best opportunities for development of innovative solutions for the next generation of products. Our teams of experts help our customers fully utilise the unique breadth of Tata Steel’s product range. The results can include improvements to both the production process and performance of machines used in lifting and excavating industries.

Meeting today’s challenges
The challenges faced by machine designers are as numerous and complex as the ways in which these machines are applied. Our experts are dedicated to helping our customers meet these challenges with solutions which are practicable and profitable for production. Bringing a fresh perspective and a range of industry experience that is both broad and deep, our expertise and input is much in demand from our customers.

As part of our collaborative work with customers, we have used our advanced modelling capabilities to improve fatigue performance. We have used our knowledge of steel material options to investigate how component weight might be reduced to improve machine efficiency. We have also worked with customers to assess bottlenecks in fabrication processes in order to identify alternative means of manufacture and free up production capacity.

In solving design and production issues, customers will find that our team is always available to them for advice and support. We provide clear and concise technical product data to help customers make informed decisions.

Facing the future with confidence
Through discussions with customers and membership of key sector trade associations, we are working to ensure that we understand long-term market trends and design drivers at an early stage. This information helps shape the work of specialists at Tata Steel’s Research, Development and Technology (RD&T) centres – helping us to work with our customers to create imaginative solutions for the future.

Our RD&T facilities are recognised globally by experts in many fields. Our scientists, metallurgists, technologists and engineers have earned a strong reputation for their regular contribution to technical conferences around the world. We have specialists in welding and forming, fatigue performance, wear characteristics and in the production and usage of high-strength steels.

Working in partnership
Our team is committed to forming and maintaining productive working partnerships with customers. We are proud of our technical experts. They are responsive, personable and approachable. Their regular engagement with customers, including site visits, helps to build mutually beneficial working relationships – driving better understanding and performance for both Tata Steel and our customers.
Tata Steel manufactures a wider range of steel products used in the lifting and excavating sector than any other steel producer in the world. This provides an unrivalled flexibility to tailor our offering to meet the needs of each machine maker. Our wide product portfolio of plate, strip, special profiles, engineering grade bar and tubes includes:

**Special Profiles**
Tata Steel manufactures an extensive range of hot rolled, special shaped steel profiles, manufactured to individual customer designs. Our profiles can be manufactured into components used across the whole range of lifting and excavating equipment.

- **Track shoe sections**
  - The most comprehensive range in the world
  - Manufactured from heat treatable boron grade steels for world-class toughness and wear resistance properties
  - Reduce the need for replacement parts and minimise machine down time for the benefit of end users

- **Bevel flat sections for cutting edges**
  - Manufactured from heat treatable boron grade steels for dozer blades, bucket protection, grader and scraper applications

- **Forklift mast assemblies**
  - Extensive range of mast profiles, carriage (hanger) bar and flats for manufacturing fork arms for the smallest warehouse truck to the largest container handler
  - Cold sawing and machining services to provide customers with ready to use profiles

- **Crane rails**
  - European range, popularly referred to as the “K” range for overhead gantry or floor-mounted cranes

- **Profiles for underground mining applications**
  - “Top hat” shaft guide sections for guiding cages and skips in mine shafts
  - Conveyor channels (sigma sections) which are used to manufacture armoured face conveyors
  - Range of benefits including easier installation and corrosion and wear resistance during the life of the mining application

**Plate**
Tata Steel's plate products combine ease of fabrication with excellent surface quality and consistent mechanical properties suitable for automated processing, including laser cutting and welding. We offer a wide range of plate qualities, sizes and grades to serve our customers' global markets.

Tata Steel's range of weldable steel plate products, including Abrazo®, RQT® and Actis, have been developed for demanding components that suffer long service life in abrasive conditions, or for where strength, rigidity and long life are paramount. Typical applications for these grades are buckets, mining conveyors, off highway truck bodies, mining supports and cranes. We provide our customers with a range of options suitable for most wear situations.

**Hot rolled strip steel**
Hot rolling at Tata Steel produces strip steel products in a range that offers extensive performance characteristics, versatility and economy, as well as steels for specific applications. Varying combinations of strength and ductility allow the product designer to design the optimum end product. We supply high-strength steels with great formability used in many strength critical applications such as wheels, chassis, cabs, booms and outriggers for earthmoving vehicles, large cranes and crane booms and trailer flooring. In these applications the high strength of steel is used to save weight and increase the load-bearing capacity. This can make products more profitable and competitive by increasing the output from each tonne of steel and by making them stronger, lighter and safer under load.

**Engineering grade bar**
Tata Steel supplies a range of bar products, forged and machined from engineering steels. Typical applications include crankshafts and connecting rods, hydraulic piston shafts, couplings, pins, gears and driveline components. Our products meet the demands for high-performance engines, lightweight designs, component reliability and low through-cost manufacturing. Tata steel can also offer the larger sized bar used for components in the lifting and excavating industries.

**Hollow sections**
Tata Steel manufactures structural hollow sections for applications such as latticed booms of tower cranes and crawler cranes.

- **Celsius®** is a hot formed hollow section with great dimensional accuracy and uniform properties, free of internal stresses enabling material cost savings and lighter structures
- **Hybox®** is a cold formed, high-grade multi-purpose hollow section offering trusted formability and toughness. It is suitable for structural applications demanding specific properties

**Narrow strip**
Narrow Strip products are manufactured by Tata Steel to exacting standards for customers throughout the world. Our range of steel grades, from low carbon and free-cutting steels to high carbon and alloy steels, offer varying strength, formability, durability and hardness properties to suit the requirements of a variety of end applications.
SOLUTIONS THAT DELIVER

We offer a range of integrated services so that we can work successfully in partnership with you. Our focus is on the delivery of high-quality, innovative solutions to meet your business requirements.

Tata Steel has a dedicated business team focused on delivering solutions to our customers in lifting and excavating industries across the world. Our people are committed to understanding your business and working with you to address the issues you face now and in the future.

**Dedicated account management**
Our dedicated account managers help make your life simpler by offering a single point of coordination between yourselves and other Tata Steel departments such as design, technology, engineering and logistics. They oversee all aspects of customer enquiries, sales and service.

**Service that adds value**
Tata Steel service centres can supply far more than just steel - our teams work with our customers to develop steel solutions for their needs. We help you to take full advantage of our resources to reduce your costs and waste and to improve your product quality.

We can offer further processing of steel products to help keep our customers one step ahead. Continuous investment enables us to offer the most advanced material processing facilities. These range from fabrication, laser welding and cutting to press working, powder coating, slitting, shotblasting and painting, trapezoidal, multi-strand and press blanking, sawing and profiling. These facilities give us the capability to supply material cut and finished to exact size, length, shape and specification. We can even supply welded assemblies and high-strength tailored blanks. This reduces the time it takes to get material into our customers' production cycles - cutting their operating expenses and material waste.

**Global supply and long-term partnerships**
We take pride in understanding our customers' needs and delivering their requirements. We are committed to building mutually beneficial, long-term relationships with our customers.

We have customers in the Americas, Asia and Europe – making us a truly global supplier. To satisfy customers' service and logistical needs, Tata Steel has distribution networks, service centres and sales offices offering global reach but local services. We have a highly efficient stock management system and round-the-clock delivery services. We can meet requirements for short lead times and small quantity orders, as well as servicing high-volume, long-term business agreements.

We know that excellent delivery performance is essential to our customers. We have invested heavily in modern planning and scheduling systems to manage the production processes from steel making and rolling, to processing and final delivery. Extensive experience in transport and shipping throughout the world also contributes to a successful and customer-oriented delivery service.

**Total service package**
We provide unrivalled technical, engineering and processing resources along with expertise in materials management and logistics and in the latest e-commerce systems. In short, we believe we are well-equipped to supply innovative material solutions that add real value to our customers' business.
SUSTAINABILITY

At Tata Steel, we are committed to making the products society needs and to making them responsibly. We will work with our customers to help make your products as sustainable as possible.

Sustainability drives everything we do. To us, this is about addressing the big challenges we all face today. It is about how we can ensure a high quality of life, for all, both now and for generations to come. This stems from the five core values of the Tata Group, Unity, Understanding, Responsibility, Integrity and Excellence.

Our modern society is built on steel. Steel is essential for the infrastructure we rely upon and for virtually everything we do. Steel is central to modern, sustainable engineering, whether for low-emission transport, low-energy buildings, renewable energy generation or a multitude of other uses.

Steel is a uniquely sustainable material because once it is made, it can be used, as steel, for ever. The steel recycling loop is a true closed loop. Steel is a material that is used, not consumed. It is recycled and used again, without any loss of quality, time after time.

Steel is the natural material of choice for all machinery applications. It is a hard-wearing workhorse of a material. Modern steel lasts longer, wears less and can weigh less than traditional designs, all helping to lengthen replacement intervals and use fewer precious resources.

The steel we produce and our expertise makes machinery safer, more efficient, more durable than ever. Our range of steel, specifically tailored for the Lifting & Excavating sector, helps you to make more sustainable machines.

We recognise that you want steel from the most responsible, sustainable source. Our approach to sustainability within our own operations covers the full range of social, economic and environmental concerns. All of our manufacturing sites are accredited to ISO 14001 for environmental protection, while we have adopted a class-leading framework for safety across our operations.

To drive sustainability within our operations by focusing on manufacturing efficiency, safety, waste minimisation, CO₂ reduction and energy saving. We invest heavily in environmental improvements at our manufacturing plants to use waste heat and gas, reducing CO₂ emissions by over 300 thousand tonnes per year.

We continuously monitor the impacts of our steelmaking operations and with world-leading expertise in life cycle assessment we help our customers to make intelligent choices to ensure that sustainability throughout the life of products, is built in from the start. This life-cycle approach means we can truly say we are committed to driving a sustainable future.

Tata Steel’s Abrazo® steel plate products have been developed to extend the service life of critical components in abrasive conditions. This reduces the effect of unscheduled maintenance and minimises the life-cycle impact of machinery.

RE-USE

Our range of Abrazo plate steels last longer than traditional steels in high-wear applications such as mining and quarrying, material handling, construction and earthmoving equipment.

That means that while other machinery wears out and needs replacing, if it uses Abrazo, it just keeps on going for longer. For example use of Abrazo by a mining equipment manufacturer in armoured face conveyors has been proven to increase their service life. Also, in construction and earthmoving equipment, use of Abrazo provides resistance against wear in buckets and dump truck bodies, increasing the equipment’s service life.

RECYCLE

At the end of a machine’s life, the unique sustainability of steel means that all the steel will be put to good use through the closed loop steel recycling process. Unlike other materials, 100% of the steel can be recycled to produce new steel, steel recycling is easy and cost-effective – every steelmaking plant is a recycling plant.

REDUCE

Putting weight in the right place is an essential part of designing efficient machinery. Using technology borrowed from car manufacture, we offer a range of advanced high strength steels specifically tailored to the Lifting & Excavating sector, together with guidance on how to get the most from them. For example, we are engaging in early vendor involvement (EVI) projects with several leading OEMs. This involves working together with our customers during the earliest design stages of their new product and model developments. We provide design advice and material expertise so that the equipment can be optimised in terms of design, manufacturing and materials.

Tata Steel's Abrazo® steel plate products have been developed to extend the service life of critical components in abrasive conditions. This reduces the effect of unscheduled maintenance and minimises the life-cycle impact of machinery.
While care has been taken to ensure that the information contained in this brochure is accurate, neither Tata Steel Europe Limited nor its subsidiaries accept responsibility or liability for errors or information which is found to be misleading.