

Making strip steels work harder in construction & earthmoving equipment

Corus has developed an unrivalled range of products and services designed to satisfy the commercial, production and technical demands of construction and earthmoving equipment manufacturers. This includes a comprehensive selection of strip products.



Products

Our specialist Hot Rolled Processing Centres hold extensive stocks of advanced hot rolled strip steels in a wide range of forming and drawing qualities, tensile specifications and gauges, from 1mm to 20mm.

Sustained investment in steelmaking and processing technology, combined with stringent production and control processes, enables Corus to manufacture steels to extremely tight dimensional tolerances. Rolling to thickness tolerances half normal commercial values can be achieved by special arrangement. Supplied as 'Suitable for Yellow Goods Applications', these steels provide the consistent mechanical properties needed for predictable bending and pressing of parts, and the high quality, scale-free surface and flatness demanded by today's automated production processes, and expected by the end user.

The range includes high strength steels, which combine superior strength and cold formability with an excellent surface quality. These offer potential for significant weight and cost savings through down-gauging. We can also supply Lasersure stay flat steels, designed for laser and plasma cutting applications, which provide a pre and post cutting flatness of 3mm in 1000mm, plus an enhanced surface finish. In addition, we can source products from other leading metal producers to meet customer requirements, if necessary.

Services

Continuous investment in pre-fabrication processing services gives us the capability to supply material to exact specification. This plays a key role in helping customers to reduce yield loss and cost, whilst improving productivity and quality.

For the cost effective production of precision blanks and components, we have a bank of laser profiling machines. Working in a material gauge of between 1mm and 20mm, components can be profiled to within +/-0.5mm, and holes to within +/- 0.15mm. This eliminates the need for further downstream punching, drilling and finishing operations. Programmable cutting control enables dimensional refinements to be made on-line, reducing the cost of product design, and eliminating tooling and die development costs. For multiple blank configurations, advanced computer nesting software ensures optimum material utilisation and minimum production lead times.

Multi-strand blanking lines provide the capability to produce steel blanks to a standard maximum length of 4m and a width tolerance of +/- 0.25mm, with the capacity to cut blanks of up to 15m in length by special arrangement. Decoiling, shearing and press braking facilities are available to satisfy requirements for formed components quickly and efficiently, and we can also slit coil to width.

Our processing facilities are maintained to the highest standards to ensure that material quality, surface finish and flatness is assured from the mill, during processing, to delivery. Great care is also taken during handling, packaging and storage to ensure that products reach customers in prime condition.

These resources are supported by tailored EDI, IT and logistics systems which enable us to check order status or stock availability instantly, minimise order lead times and maintain deliveries on a J-I-T and scheduled basis.

Technical support

We work closely with customers from the development phase of projects to tailor our steels and technologies to meet their production needs and stringent end-product quality and performance parameters. We can draw on the world-class resources of Corus Research, Development and Technology, which offers practical testing and evaluation facilities and expertise in key areas including finite element analysis, fabrication, corrosion, welding, adhesives and mechanical fixings.

Product guide

Hot rolled products to:

EN 10111: 1998 Hot rolled low carbon steel sheet and strip for cold forming.

EN 10025:1993 Hot rolled products of non-alloy structural steels, including S275JR, S275JO and S355JR.

Such materials can be supplied either as unpickled or pickled and oiled plates, or for some dimensional combinations, as Lasersure. Durbar floorplate is also supplied to this European specification.

EN 10149-2:1996 Hot rolled flat products made of high yield strength steels for cold forming. These are HSLA steels: Corus's branded products Tenform and YMPRESS comply with this specification.

The tolerances which apply to these products are set down in EN 10151:1992.

Bespoke grades are also available.

Processing capacity

	Gauge (mm)	Width (mm)	Length(mm)
Laser cutting	1 - 20	2500 max	8000 max
Multi-strand blanking	3.2 max	150 - 1830	200 - 15,000
Slitting	1.5 - 8.0	25 - 1830	N/A
Decoiling	1.5 - 13	2000	600 - 18,000
Shearing	13 max	200 min	6500 max
Press brake (650 tonnes)	-	-	6500 max

For requirements outside of these dimensions please consult Corus.

Contacts for further information

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For details about the other products and services which Corus has developed for manufacturers of construction and earthmoving equipment, including our network of dedicated Plate Processing Centres, please call 0800 008 400.