

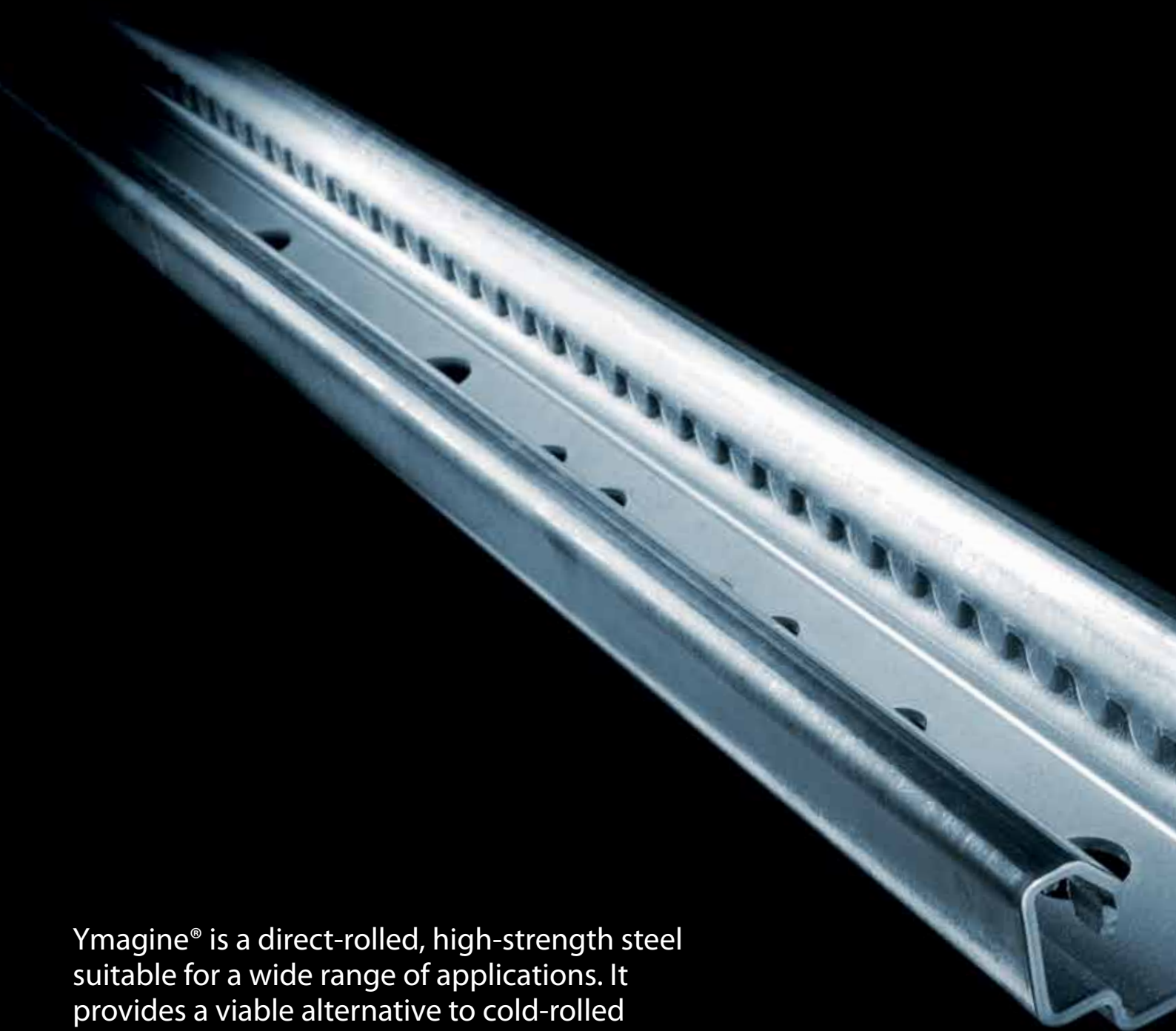
TATA STEEL



Ymagine[®]
For higher productivity



YMACHINE[®] A RELIABLE CHOICE



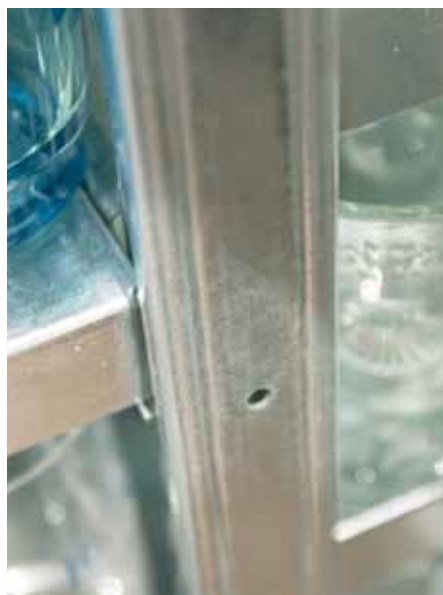
Ymachine[®] is a direct-rolled, high-strength steel suitable for a wide range of applications. It provides a viable alternative to cold-rolled and hot-rolled steel. Consistent product characteristics deliver trouble-free processing and help you to maximise yield. Ymachine[®] comes in a wide range of grades, dimensions and coil weights – enabling you to optimise your steel-processing operations.



Best of both worlds

Ymagine® is a range of high quality, pickled and oiled steel products. Excellent workability and tight tolerances mean that it offers a cost-effective alternative to traditional cold-rolled steel. Tightly-controlled production methods ensure consistent steel characteristics. This steel offers homogeneous mechanical properties and chemical composition – with a low level of residual elements and inclusions.

Available in a range of grades – including a structural steel and high-strength, low-alloy grades - Ymagine® has been proven in a diverse range of applications. Products manufactured with Ymagine® include profiles, racking and shelving, furniture and coolers. Automotive applications include seat tracks and A-Pillars, where dimensional tolerances, strength, weight savings and cost effective operations are important.



The benefits are clear

Ymagine® delivers major benefits. Its consistent and reliable quality help to ensure trouble-free processing minimising production stops and maximising productivity and yield. All coils are weld-free and the steel is available in a range of thicknesses, widths and coil weights. It means customers can choose a product to match their requirement and optimise their processing operations. Main benefits include:

- End-products of consistent and reliable quality
- Faster and easier processing
- Reduced waste and rework
- Increased output per tonne of steel
- Lighter and stronger products



YMAGINE[®] IN ACTION

Automotive components

Ymagine[®] H500 grade is used to fabricate safety-critical, seat track components for a wide range of passenger cars.

The consistent quality of this direct-rolled HSLA steel helps to deliver repeatable and reliable performance along with savings in both weight and costs.



YMAGINE[®]
IS A
CONSISTENTLY
RELIABLE
PRODUCT



Increased productivity

Consistent material properties and tight dimensional tolerances obviously result in faster and more efficient processing. Weld-free coils in a wide range of weights also contribute to the minimisation of line stops and the maximisation of yield per tonne. Ymagine® is supplied in a range of widths with trimmed edges only, offering more opportunity for time and cost savings.

The reliable quality and workability of Ymagine® mean less waste and rework. The low level of residual elements in Ymagine® ensures it can be welded successfully using all conventional welding methods.

Freedom in design

Produced to precise tolerances, Ymagine® provides a cost-effective alternative to traditional cold-rolled steel. It is also a highly suitable replacement for hot-rolled steel where repeatable product quality, ease-of-processing and lower cost are design drivers.

The high-strength, low-alloy (HSLA) grades provide opportunities for weight savings or enhanced product strength without weight penalties.

The surface quality of Ymagine® is comparable to hot-rolled pickled and oiled steel. This makes it suitable as a replacement for hot-rolled and cold-rolled steel where applications are not surface-critical.

Choice and flexibility

The Ymagine® range offers choice and flexibility, helping you to optimise productivity and meet your customers' exact requirements.

There are currently seven steel grades in the range. These include a basic grade and a structural steel. The five HSLA grades range from Ymagine® H240 up to the highest strength, Ymagine® H500, which offers excellent formability benchmarked against competitive material. Ymagine® H500 has been developed to meet the growing demand for strong but lightweight automotive components in gauges that are difficult to produce by conventional hot strip mills.

The steels are available in a thickness range of 1.2mm to 3mm – all produced to tight tolerances even up to 1/4 EN 10051. Widths range from 1000mm to 1530mm. A range of coil weights means we can tailor the supply of Ymagine® to best meet your needs.

Product Range:

Steel grades:

Drawing grade Ymagine® D1

Structural steel Ymagine® S1

Five high strength

low alloy steels: Ymagine® H240,

Ymagine® H320,

Ymagine® H360,

Ymagine® H420,

Ymagine® H500

Thickness (gauge): 1.2 mm -3mm

Width: 1000mm-1530mm

Surface treatment: Pickled & oiled



MANUFACTURED WITH PRECISION

We produce the Ymagine® range to consistently tight dimensional tolerances at our advanced direct sheet plant. Our high-speed pickling line, rebuilt and upgraded after the fire in 2010, enables a fast and efficient response to customer demand.

We draw on many decades of steelmaking experience to manufacture steel for the modern world. We recognise that the skills and knowledge of our people are critical to the success of our operations. We continue to invest in our people to ensure the safe, reliable and efficient production of high quality steel.





Tata Steel

Tata Steel is one of Europe's largest steel producers. We serve many different and demanding markets worldwide. These include lifting and excavating, aerospace, automotive, construction, energy and power, rail and packaging. Our primary steelmaking operations in the UK and The Netherlands are supported by a global sales, processing and distribution network. Our European operations are a subsidiary of Tata Steel Group, one of the world's top ten steel producers.

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.



Working with you

By working in partnership with you, we find the best solutions to meet your needs and help your business to perform. Our technical services team is available at short notice to assist you and your customers. These skilled engineers can apply their knowledge of steel and its application helping customers optimise productivity, efficiency and product performance.

Customers can also take advantage of our research and development resources. Our scientists and technical experts can help resolve complex engineering issues and assist in the development of innovative products.



Sustainability

The consistent quality of Ymagine® steels helps to reduce waste – making it a sustainable choice. The high yield strength of Ymagine® HSLA grades can enable a reduction in the amount of steel required for end-product manufacture. This also reduces the associated consumption of raw materials and energy resources.

Our steel is fully traceable and produced in accordance with ISO 14001 for environmental protection. We have adopted a class-leading framework for safety across our operations. We drive sustainability in our operations by focusing on manufacturing efficiency, safety, waste minimisation, carbon dioxide reduction and energy savings.

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