TATA STEEL

TATA

Bright bar

Bespoke solutions for high precision applications

For applications where predictability in machining and tool life are key, Tata Steel supply an extensive range of cold finished bars.

We work with our customers to provide tailored solutions that meet your needs backed by an integrated supply chain from steelmaking to bright bar which delivers full traceability and continuity of supply. We offer dedicated account management backed by the technical resources of multi-national Steel company.

Services

We can offer customers a tailored bright bar service package focused on individual needs based on:

- Fully traceable and continuity of supply from an integrated steelmaking to bright bar process route
- Dedicated account management
- Inventory & supply management
- Comprehensive range of bright bar, in metric or imperial sizes
- Scheduled deliveries
- Special packaging – to individual customer requirements
- Cutting to length – for requirements < 3 metres
- Chamfering / facing – one or both ends
- Scheduled drawing cycles for reliable delivery times
- Extensive heat treatment capability including subcritical / spheroidal annealing, annealing to hardness or grain structure, normalising, stress relieving, quench & tempering
- Approved and assessed quality assurance procedures including TS 16949 and ISO 9001
- Environmental accreditation to ISO 14001

Technical support

Tata Steel has a comprehensive technical support team, available to advise on the use of Bright bar to achieve the maximum benefit. Technical Account Managers provide specialist advice and help with day-to-day problem solving. Works based metallurgists and the full resources of Tata Steel Research and Development Laboratories are available to assist with longer-term developments.

For further information, enquiries or any technical guidance on potential applications of Bright bar steel please contact the Commercial Department at the address overleaf.

Products

Steel quality groups

- Carbon & carbon manganese
- Alloy free cutting
- Low carbon free cutting, including leaded
- Alloy through hardening
- Medium carbon free cutting
- Case hardening & nitriding
- Micro-alloyed
- Bearing

Drawn bar

We are a major producer of bright drawn engineering steel from straight bar and coil, for high volume industrial markets, to niche applications. Facilities include Schumags, Danieli drawbench, crack detection, facing and chamfering, testing and Ultrasonic inspection.

Turned bar

We are a specialist producer of high speed turned bars, for multi sector applications, offering crack detection, chamfering and precision sawing.

- Technically free from surface defects and decarburisation associated with hot rolled products
- Highly responsive to induction hardening
- Lower residual stress distribution than drawn bar

Product range

Product	**Shape**	**Size** (mm)	**Tolerance** (ISO)	**Length** (metres)
Drawn bar	Round	12-90	h9-h11	3-7
	Hexagon	12-76	h10-h11	3-7
Turned bar	Round	22-225	h10-h11 (h9 by agreement)	3-9
Heat Treated	Round	22-225		3-9
	Hexagon	12-76		3-8.5

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