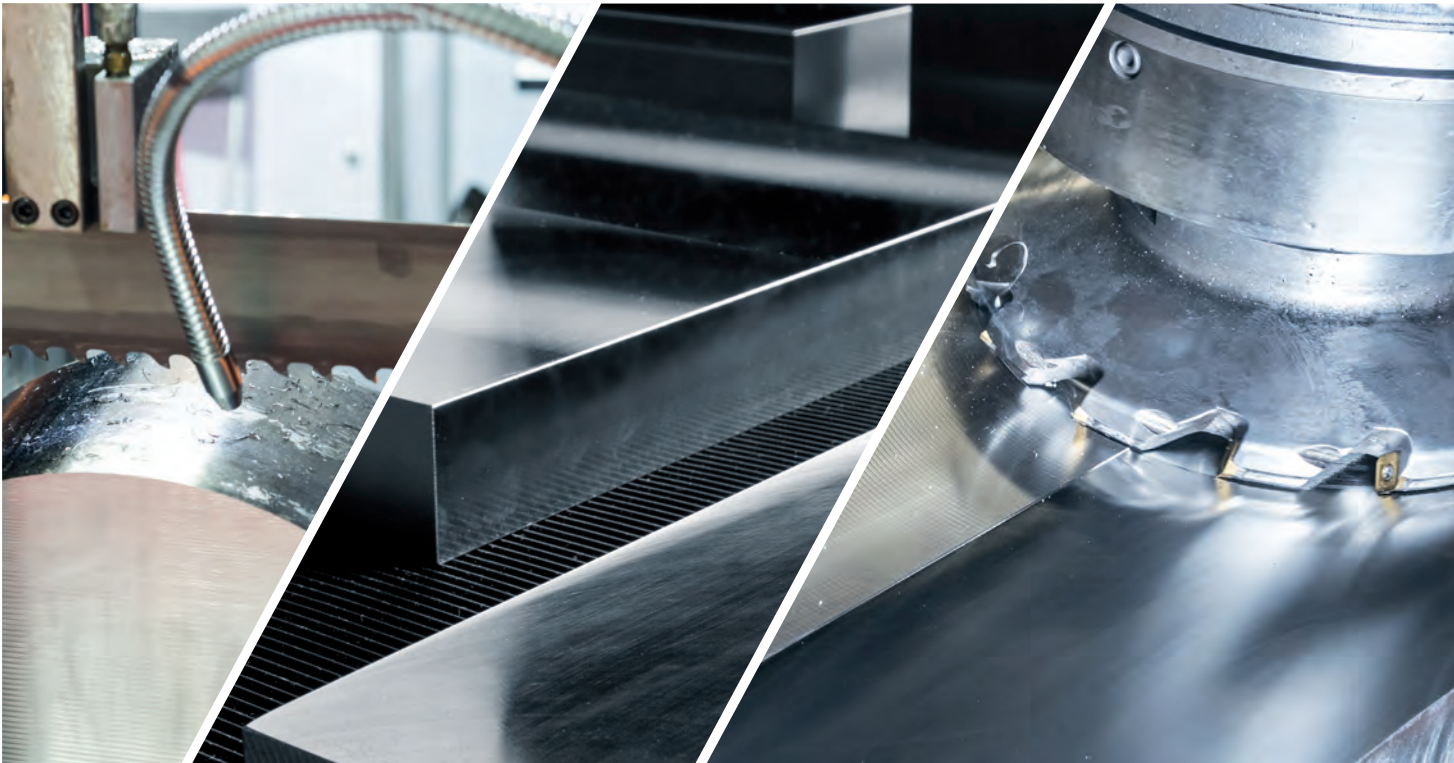


Tool Steel Stock Facility
Six-Sided Machining
Heat Treatment
Surface Coating
Gauge Plate
Additive Manufacturing
Quality Management

Tooling Solutions



INTERSTEEL



RELIABLE AND EFFICIENT SOLUTIONS

INTERSTEEL UK About us

Intersteel is one of the UK's most respected suppliers of high quality cold work, hot work and plastic mould tool steel.

Our unrivalled stockholding facility and machining capabilities allow us to deliver market-leading tool steel solutions. Furthermore, our uniquely flexible approach enables us to work closely in partnership with customers throughout every project. From supplying steel in a vast range of specifications to machining, we can offer a tailor made solution for your business. We offer a proven and reliable source of supply no matter how simple or complex your requirements are.



04

TOOL STEEL STOCK FACILITY



06

SIX-SIDED MACHINING



08

VALUE ADDED SERVICES

- HEAT TREATMENT
- SURFACE COATING
- GAUGE PLATE
- ADDITIVE MANUFACTURING



10

QUALITY MANAGEMENT





UK Tool Steel Stock and Distribution Facility

We provide customers with access to the largest range of steel products in Europe and the reassurance of working with a quality assured, service-driven organisation. All high-performance tool steels are held by our award winning, purpose-built warehouse facility, located at our headquarters in Oldbury, West Midlands. Our award winning energy saving KASTO system

is the tallest in the UK and one of the largest storage facilities in Europe. In addition to stocking a large range of tool steel grades, we also work in collaboration with EschmannStahl GmbH in Germany, to ensure we can supply special grades on short lead times. We can also work in conjunction with you to establish the quality properties required for design and application.

Ex-Stock List

Plastic Mould Steel

- 1.2311 (P20)
- 1.2312 (P20S)
- 1.2738 (P20N)
- **ESAKTUELL** 1200
- **ESANTIKOR** SL
- **ESMULTIFORM** SL
- **ESPRIMUS** SL
- **ESATLAS** 42
- **ESB-LG1** (2.0966) (BRONZE)
- **ESCU200** (2.0857) (COPPER)

Hot Work Tool Steel

- 1.2714 (L6)
- 1.2343 EST (H11)
- 1.2343 ESR
- 1.2344 (H13)
- 1.2344 ESR
- **ESPRIMUS** SL

Stainless Mould Steel

- 1.2085 (420F)
- 1.2083 (420)
- 1.2083 ESR
- 1.2316
- **ESANTIKOR** SL

Cold Work Tool Steel

- 1.2363 (A2)
- 1.2379 (D2)
- 1.2436 (D6)
- 1.2767 (EN30b)
- 1.2842 (O2)
- 1.1730 (EN8)
- **ESATLAS** 42

Aluminium

- 5083C
- 2017A
- 2024
- 6082
- 7075
- 7175





06

Onsite Machining Service

Investment in a new dedicated machine shop means our customers can save time and reduce costs as material can be supplied ready milled to specified requirements. Located next to our stock holding and distribution facility in Oldbury, we use the latest tooling technologies to provide an efficient and accurate machining service.

Our specialist six-sided machines provide fast and competitively priced solutions by utilising our large stock holding. Capabilities range from standard operations to bespoke machining operations in line with client drawings. This enables your highly skilled

engineers to concentrate on the more intricate machining of complex tools. Our group structure allows us to provide flexible tooling solutions to individual customer and industry requirements. Our onsite state-of-the-art sawing centre ensures high-precision cutting and reliable processing.

In addition to this, we can carry out precision pre-machining, surface grinding, gun drilling, lifting holes, component manufacture and geometry sophisticated contour machining; all of which can be undertaken to your specifications on steel pieces weighing up to 50 tonnes.

Our Branded Services

SPSTANDARD a valuable alternative to raw blanks

SPFINE a cost-effective alternative to ground finish

SPEXCELLENCE machine six-sided milled plates with surface ground top and bottom faces

SPINDIVIDUAL bespoke customer specification in terms of dimensions, tolerances, surface finish and edges

Brand	Tolerances				Dimensions in mm		
	Thickness	Width	Length	Edges	Thickness	Width	Length
SPSTANDARD	+0,2 mm	+0,2 mm	+0,2 mm	deburred			
SPFINE	+0,1 mm	+0,2 mm	+0,2 mm	deburred	from 20	from 20	from 20
SPEXCELLENCE	-0 / +0,05 mm	+0,1 mm	+0,1 mm	deburred			
SPINDIVIDUAL	bespoke customer specification						



Heat Treatment

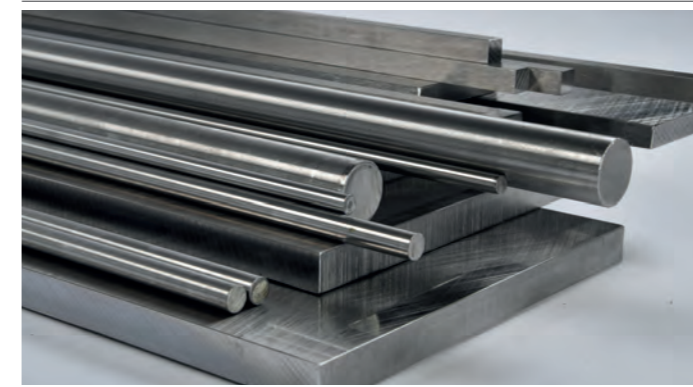
ESCHMANNSTAHL



By utilising the facilities and skills offered by our group company EschmannStahl, we are able to support our local customer base with a complete steel and heat treatment service. Modern heat treatment processes ensure material reliability with shortened process cycles for cost and time efficiency.

- Vacuum hardening
- Vacuum tempering
- Vacuum annealing
- Isothermal quenching
- Gas nitriding

Gauge Plate



Available in 500mm/1000mm lengths

- Width: -0.00mm/+0.20mm
- Thickness: -0.00mm/+0.05mm
- Length: -0.00mm/+5.00mm

In partnership with our mills, we can offer from stock or manufacture to your specification; ground flat stocks in various widths and thicknesses. Possessing excellent dimensional stability and usually precision ground and supplied in a fully annealed condition from stock in either 1.2510 (O1) or 1.2842 (O2) material enabling finished parts to be manufactured with minimal machining. Our ability to produce gauge plate in various sizes means that our customer will be able to satisfy more of their needs within the market.

Surface Coating

eifeler



The voestalpine eifeler group has been involved in dynamically evolving the surface coating business for more than 30 years. By utilizing the expertise and continual R&D of their highly qualified engineers, physicist and chemists; together with Eifeler we are able to offer a specific customer solution that helps to increase production and tooling life.

- CVD layering system
- PVD layering system
- Laser technology

Additive Manufacturing



Additive Advantages

- Increased geometric freedom
- Increased part functionality
- Weight reduction of parts
- No tooling costs
- Economical Low volume production
- Reduced lead times
- Reduced raw material consumption

Additive manufacturing, popularly known as 3D printing, is one of the most innovative and revolutionary manufacturing methods we see today. An essential part of the success of our additive manufacturing operations is a comprehensive understanding of each and every process in the value chain.

We provide additive manufacturing solutions from development to the actual manufacturing of the parts, machining, heat treatment and coating of the finished component.



Wide Range of Measuring and Testing Capabilities

Intersteel UK operates an onsite metallurgical laboratory which provides a wide range of inspection, testing and failure analysis services. We are uniquely positioned to problem solve across multiple disciplines by working in conjunction with our respected parent steel mills.

- OES Spectrometer- chemical analysis
- XRF – PMI Material identification (Handheld)
- Sample preparation: sawing and cutting
- Hardness testing (Brinell - portable, Rockwell, Vickers, Equo tip 2 Leeb tester)
- Tensile tests up to 10,000N at room temperature
- ASTM Charpy impact tester up to 250 joules (from room temp to sub-zero)
- Metallographic structure examinations
- Cleanness examinations
- NADCA checks
- NDT – MPI / Dye Penetrant and contact UT
- Magnetic particle testing
- Third part inspections (3.2)
- Ferrite determination
- Failure analysis – reporting and recommendations
- Corrosion testing (G48 / G 28 ASTM A923)
- Test piece manufacture





Intersteel UK

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