

High Speed Steel

High speed steel (or HSS) is often used in the manufacture of machine bits

High speed steel stockholders and suppliers, delivering to the whole of the UK. Grades are stocked and supplied in round bar, flat bar, cut plate and sheet.

As high performance steels high speed grades offer high hardness at temperatures up to 500°C and high wear resistance. High speed steel has more advantages to the standard high carbon tool steel specifications. It will withstand increases in temperature without losing its temper and this enables the steel to cut faster than high carbon steel. Hence the name high speed steel. Stocks are held in the tungsten molybdenum type high speed steel. Cobalt molybdenum high speed steel grades are also available, which offer high hardness, excellent cutting properties with high red hardness and good toughness.

We welcome export enquiries for high speed steel. Contact our sales office and consult our [shipping policy](#) for further details.

If you do not find the high speed steel specification you require on our web site please contact our sales team who may be able to assist you with your enquiry.

Related Specifications

BS4659 BS EN ISO 4957 Werkstoff AISI DIN 17350 ASTM A681

Popular grades we supply

[M2](#) | [M42](#) | [M35](#)

Form of Supply

West Yorkshire Steel are stockholders and suppliers of round bar, flat bar, plate and block. Diameters can be sawn to your required lengths as one offs or multiple cut pieces. Rectangular pieces can be sawn from flat bar or block to your specific sizes. Ground high speed steel bar can be supplied, providing a quality precision finished bar to your required tolerances.

- Sheet
 - Plate
 - Flat
 - Diameter
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Applications

High speed steel (or HSS) is often used in the manufacture of machine bits such as taps, dies, twist drills, reamers, saw blades, drill bits and other cutting tools.

Specifications

High speed steel specifications are held in International Standards including BS4659, BS EN ISO 4957, AISI, Werkstoff Nr and DIN designations. High speed steels are through hardening steels which are commonly supplied fully annealed ideally suited to be heat treated to a high Rockwell hardness. High Speed Steel specifications are high performance special steel grades offering high hardness at temperatures up to 500°C and high wear resistance.

| BS4659 | AISI | Werkstoff | DIN |
|----------------------|---------------------|------------------------|------------|
| BM2 | M2 | 1.3343 | S 6-5-2 |
| BM35 | M35 | 1.3243 | S 6-5-2C |
| BM42 | M42 | 1.3247 | S 6-5-2-5 |
| | | | S 2-1-1-18 |

Tool Bits

[High speed steel tool bits](#) are supplied in flats, squares and rounds. Commonly supplied in standards sizes in grades M2 and M42. Non standard sizes can be produced within a few weeks, subject to availability of suitable raw material.

Heat Treatment

When hardening high speed steel consideration should be given to heat treatment temperatures, including rate of heating, cooling and soaking times which will vary due to factors such as the shape and size of each component. Other considerations during the heat treatment process include the type of furnace, quenching medium and work piece transfer facilities. Please consult your heat treatment provider for full guidance on heat treatment of high speed steel.

Quality Assured Supply

All our high speed steel specifications are supplied in accordance with our ISO 9001:2015 registration.