

EN8 steel stockholders and suppliers, delivering to the whole of the UK. EN8 is an unalloyed medium carbon steel grade with reasonable tensile strength. It is normally supplied in the cold drawn or as rolled condition. Tensile properties can vary but are usually between 500-800 N/mm². EN8 is widely used for applications which require better properties than mild steel but does not justify the costs of an alloy steel. EN8 can be flame or induction hardened to produce a good surface hardness with moderate wear resistance. EN8 is available from stock in bar and can be cut to your requirements. We also offer flame cut plates cut to your required sizes and normalised. EN8 plates can be supplied surface ground or precision ground.

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

Analysis	Carbon	0.35-0.45%	Phosphorous	0.06% max
	Manganese	0.60-1.00%	Sulphur	0.06% max
	Silicon	0.05-0.35%		

Form of Supply West Yorkshire Steel are steel stockholders and suppliers of EN8 carbon steel in round, square and flat bar. EN8 bar can be sawn cut to your required length. West Yorkshire Steel can offer flame cut steel profiles in grade EN8, which can be surface ground if required. EN8 ground steel bar can be supplied, providing a precision ground steel bar to tight tolerances.

Contact our experienced sales team who will assist you with your EN8 medium carbon steel enquiry.



Plate



Flat



Diameter

Flame Cut Profiles

West Yorkshire Steel are suppliers of EN8 flame cut steel profiles. A hard edge can occur when flame cutting EN8 plate, therefore this grade is commonly normalised after flame cutting. EN8 flame cut profiles can be supplied Lumsden ground or precision ground.

Ground Flat Stock

Precision ground flat stock / gauge plate can be produced using EN8 steel. Subject to size suitability and availability of raw material pieces can be produced in approximately 2 to 3 weeks. Standard and non-standard sizes are available.

Applications	EN8 is widely used for many general engineering applications. Typical applications include shafts, studs, bolts, connecting rods, screws, rollers.
Forging	Preheat the steel carefully, then raise temperature to 1050°C for forging. Do not forge below 850°C. After forging cool slowly, preferably in a furnace.
Annealing	Heat slowly to 680-710°C, soak well. Cool slowly in the furnace.
Hardening	Heat the component slowly to 820-860°C and allow it to be heated through. Quench in oil or water.
Tempering	Temper the EN8 component immediately after quenching whilst tools are still hand warm. Re-heat the EN8 component to the tempering temperature then soak for one hour per 25 millimetre of total thickness (2 hours minimum) Cool in air. For most applications tempering of EN8 will be between 550-660°C.
Welding	We recommend you contact your welding consumables supplier who should provide you full assistance and information on welding EN8 steel.
Heat Treatment	Heat treatment temperatures, including rate of heating, cooling and soaking times will vary due to factors such as the shape and size of each EN8 steel 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 EN8 carbon steel.
Certification	EN8 carbon steel is available with a cast and analysis certificate or a BS EN 10204 3.1 mill certificate, please request when placing any orders.
Quality Assured Supply	EN8 is supplied in accordance with our ISO 9001 : 2008 registration.

Contact West Yorkshire Steel with your enquiries for flame cut profiles, plate, round and flat bar in EN8 carbon steel.

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