

Glossary

Alloy steel	A carbon steel to which alloying elements have been added to enhance the heat treatment properties.
Batch hardening and tempering	The hardening and tempering of a finished component or part thereof. This process can be applied to single or large numbers of components depending on their design.
Bimetallic strip	A composite strip product comprised of an alloy steel welded to the edge of a dissimilar alloy steel . Used to manufacture saws for cutting other metals.
Bright drawing	The operation of giving rods or wire a good surface and accurate dimensions, by pulling through one or a series of tapered dies.
Carbon steel	Steel containing 0.25 per cent carbon to 1.3 per cent carbon and no significant alloying elements. Typically used where the final product requires heat treatment to achieve increased hardness and toughness properties.
Coil processing	The normal method of hardening and tempering steel strip, so called because the strip is in coil form. Can be carried out by manufacturers or customers and their subcontractors.
Cold-rolled	Derived from hot-rolled material by processing at room temperature. Typically used in applications where surface finish, dimensional tolerances and mechanical properties are highly specified.
Hardened and tempered steel strip	Cold-rolled carbon steel strip which has been hardened and tempered. In the United Kingdom not wider than 500 mm.
Hardening and tempering	A process involving the heating, quenching and further reheating of carbon or alloy steels to achieve an increase in hardness and toughness.
Hot-rolled	Material rolled at approximately 1,000°C, the surface of which will have an oxide layer. Typically used in applications where surface finish, dimensional tolerances and mechanical properties are of general rather than specific importance.
Metal cutting bandsaw strip	A cold-rolled carbon steel strip with a specially developed metallurgical structure. Used to manufacture saws for cutting metals and other hard materials.
Mild steel	Steel with a carbon content not exceeding 0.25 per cent and no significant alloying elements. Typically used for general presswork where ductility is important.
Pickling	Chemically treating surface to remove scale, rust and dirt.
Primary process	Those operations carried out before hardening and tempering , eg cold rolling .
Sheet	A flat rolled product in excess of 600 mm wide. Can be in hot-rolled or cold-rolled condition.

Steel billet, slab, bar and coil

Semi-finished steel products of various shapes and dimensions.

Stockholder

A business not substantially involved in manufacturing but which purchases **strip** and **sheet** products in bulk for subsequent resale in small quantities or in a slightly modified form.

Strip

A flat rolled product less than 600 mm wide. Can be in **hot-rolled** or **cold-rolled** condition.