



SERVICE

# WOODALL STEELS LIMITED

“TOWN WORKS” · CRADLEY ROAD · NETHERTON · DUDLEY · WEST MIDLANDS DY2 9PH

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SERVICE

## Bright Bar

### Imperial and Metric sizes

Diameters 3mm up to 250mm

Hexagons 6mm up to 100mm

Squares 3mm up to 152mm

Flats 10mm up to 300mm wide  
3mm up to 76mm thick

Lengths up to 6.5 metres

## Hot Rolled and Forged Bars

### Metric sizes

Diameters 3mm up to 600mm

Squares 12mm up to 260mm

Lengths up to 9 metres

## Hot Rolled Sections

### A comprehensive range of

FLATS / ANGLES / CHANNELS /  
JOISTS / BEAMS / COLUMNS /  
MECHANICAL TUBES/CDS/S.H.S./R.H.S.

## SPECIALS

GALVANISED BAR / ALUMINIUM  
CAST IRON / TOOL STEELS /  
STAINLESS STEEL  
plus many more upon request

## Accurate Cold Sawing

Precision sawing a speciality  
Capacity up to 460mm dia.

## PRODUCT DATA SHEET

BS 970 PT1 (1983)	WOODALL STEELS COLOUR CODE	BS970 1955 (NEAREST)	COMMENTS AND COMMON USES
230M07	BLUE (IMPERIAL) MAGENTA (METRIC)	EN1A	A RE-SULPHURISED “FREE CUTTING” STEEL WIDELY USED IN AUTOMOTIVE AND GENERAL ENGINEERING PRODUCTS REQUIRING A GOOD SURFACE FINISH
230M07 PB	GREEN	EN1A LEADED	A “LEADED” VERSION OF THE ABOVE. THE ADDITION OF LEAD HELPS LUBRICATE CUTTING TOOLS AND THEREFORE ENHANCES TOOL LIFE AND AIDS MACHINABILITY
070M20	WHITE (IMPERIAL) ORANGE (METRIC)	EN3A/EN3B CONTROLLED	A .20% CARBON STEEL FOR GENERAL ENGINEERING PURPOSES, COMBINING WELDABILITY WITH REASONABLE MACHINABILITY. A GOOD ALL PURPOSE “MILD STEEL”.
080M15	WHITE (IMPERIAL) ORANGE (METRIC)	EN32B	GENERAL PURPOSE MILD STEEL COMBINING REASONABLE WELDING/MACHINING CHARACTERISTICS WHILST ALSO BEING CAPABLE OF BEING CASE HARDENED
080M40	RED	EN8	A 40% MEDIUM CARBON STEEL USED WIDELY IN THE MANUFACTURE OF GEARS/SHAFTS/CAMS/BOLTS/STUDS etc. CAPABLE OF THROUGH HARDENING AND SURFACE HARDENING
212A42	RED/SILVER	EN8DM	A FREE MACHINING VERSION OF 080M40. SUITABLE FOR GEARS/STUDS/SHAFTS etc. HIGHER SULPHUR AND MANGANESE CONTENTS AIDS MACHINABILITY AND TOOL LIFE
070M55	BLACK	EN9	A .50% CARBON VERSION SIMILAR TO 080M40 SUITABLE FOR THROUGH HARDENING/FLAME & INDUCTION HARDENING. USED FOR SHAFTS/CAMS/ROLLERS/CYLINDERS.
150M19	BLACK/WHITE	EN14A	A WELDABLE CARBON/MANGANESE STEEL GIVING A HIGHER TENSILE STRENGTH THAN 070M20. USED FOR LIFTING GEAR/SHAFTS/PLUGS etc.
605M36	BLUE/WHITE	EN16	A LOW ALLOY THROUGH HARDENING STEEL USUALLY SUPPLIED IN THE HEAT TREATED CONDITION. APPLICATIONS INCLUDE BOLTS/NUTS/STUDS/SHAFTS/GEARS etc.
606M36	BLUE WHITE	EN16M	A RE-SULPHURISED VERSION OF EN16 GIVING IMPROVED TOOL LIFE AND CYCLE TIMES. USUALLY SUPPLIED IN HARDENED AND TEMPERED CONDITION FOR STUDS/GEARS/BOLTS/SHAFTS.
708M40/ 709M40	GREEN/WHITE	EN19	A .10% CHROME-MOLY STEEL CAPABLE OF SURFACE/DIRECT/ THROUGH HARDENING AND ALSO NITRIDING. APPLICATIONS INCLUDE BOLTS/NUTS/SHAFTS/GEARS AND FASTENERS.
817M40 817M40T	BLUE/GREEN (ann) RED/GREEN (*T*)	EN24 ANN EN24T	A 1 1/2% Ni-Cr-Moly STEEL CAPABLE OF THROUGH HARDENING TO A VARIETY OF RANGES. APPLICATIONS INCLUDE SHAFTS/GEARS/STUDS/NUTS/BOLTS/SPECIAL FASTENERS.
665M17	BLACK/RED	EN34	A Ni-Moly CASE HARDENING STEEL CAPABLE OF ACHIEVING A HIGH WEAR RESISTANT CASE COMBINED WITH A TOUGH CORE. USED FOR CAMS/GEARS/SHAFTS/COLLETTs.
665M13	YELLOW	EN36A	A 3 1/2% Ni-Cr CASE HARDENING STEEL CAPABLE OF ACHIEVING HIGH WEAR RESISTANCE AND A TOUGH CORE. USED FOR GEARS/CAMS/SHAFTS/ROLLERS/BUSHES.
210M15	YELLOW/BLUE	EN32M	A “SEMI-FREE CUTTING” CASE HARDENING STEEL GIVING IMPROVED MACHINABILITY. USED FOR HIGH VOLUME PRODUCTION OF ROLLERS/PINS/SPROCKETS etc.
SAE 8620 (U.S.A.)	BLACK/GREEN	EN362 (NEAREST U.K.)	A LOW ALLOY AMERICAN CASE HARDENING GRADE WHICH AFTER CARBURISING GIVES A WEAR RESISTANT CASE COUPLED WITH A TOUGH CORE. USED FOR GEARS/CAMS/SHAFTS.

## HOT ROLLED & COLD REDUCED SHEET & PLATE

### SHEARING CAPACITY

UP TO 6mmx2000mm MILD STEEL

HOT ROLLED BS1449 Pt. 1 1983  
HR15 - HR1

HOT ROLLED BS 4360 1986  
GRADES 49A - 50A

COLD REDUCED BS 1448 Pt. 1  
CR1 - CR4

### ELECTRO ZINC COATED

BS 6687 1986

GRADES CR1 - CR4

### GALVANISED

BS 2989: 1982

GRADES Z1 - Z5

### SIZE RANGE

26 swg TO 12mm

SHEARED STRIP & BLANKS  
A SPECIALITY

### SPECIALS

Floor Plates / Weld Mesh Perforated Sheet/  
Stainless and Profiled Blanks

**WE HANDLE EVERY ORDER AS IF OUR FUTURE DEPENDS UPON IT — BECAUSE WE KNOW THAT IT DOES!**

EVERY CARE HAS BEEN TAKEN IN THE PREPARATION OF THIS TABLE. HOWEVER NO LIABILITY CAN BE ACCEPTED FOR ERRORS OR CONSEQUENCES ARISING. FOR FURTHER DETAILS PLEASE REFER TO THE RELEVANT STANDARD.