MASHREK INTERNATIONAL

PRODUCT CATALOUGUE

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Who We Are

We are a leading provider of engineering steel solutions, delivering high-quality materials to industries such as aerospace, defense, oil and gas, automotive, hydraulic, pneumatic, corrugation, and chemicals. With expertise in sourcing and supplying, we ensure that our clients receive the right steel materials tailored to their specific needs.

Our focus: Delivering excellence in every order.

Product Categories Overview

- Carbon Steel & Free Cutting Steel
- Alloy Steel
- Tool & Die Steel
- Stainless Steel

Carbon & Free Cutting Steel

Carbon steel is a highly versatile material used across a wide range of industries due to its balance of strength and affordability. Free-cutting steels are known for their superior machinability, making them ideal for precision components in mass production.

Grade	Key Features	Applications
C10	Low carbon content, easy to form and weld	Pipes, structural components, automotive parts
C20	Good balance of strength and toughness	Shafts, gears, machinery parts
C35	Moderate strength, good wear resistance	Forged parts, crankshafts, bolts
C45	High strength, excellent toughness	Shafts, gears, axles, heavy-duty machinery
C55	High wear resistance, good machinability	Gears, cutting tools, springs
C60	High carbon content, excellent hardness	Axles, bolts, shafts
CK60	High strength and wear resistance	Springs, shafts, cutting tools
EN8	Medium carbon steel with good tensile strength	General engineering, gears, shafts, bolts
EN9	Medium carbon, improved toughness	Axles, shafts, spindles
EN32	Case hardening steel, tough core	Gears, camshafts, automotive components
EN3B	Low carbon, excellent formability and weldability	Machine parts, structural applications
EN5	Low alloy, high tensile strength	Crankshafts, motor shafts, gears
11SMn30	Free-cutting steel with excellent machinability	Precision parts, screws, fasteners
11SMn37	Free-cutting, suitable for high-speed machining	Machined components, bolts, screws
11SMnPb30	Leaded free-cutting steel for superior machinability	Screws, fasteners, automotive components
SAE 1018	Low carbon, excellent weldability and toughness	Pins, fasteners, gears, shafts
SAE 1020	Low carbon, easy to machine and form	Light structural applications, fasteners, bolts
SAE 1045	Medium carbon, high strength and impact resistance	Machine parts, gears, axles
SAE 1213	Free-cutting, good machinability, leaded steel	Precision turned parts, machined components
SAE 12L14	Leaded free-cutting steel with excellent machinability	High-volume precision components, fasteners, screws
AISI 12L15	Leaded, exceptional machinability	Precision screws, fittings, and parts
AISI 1137	Medium carbon, high machinability	Screws, shafts, axles, gears
AISI 1141	High-strength, free-machining steel	Gears, machinery parts, screws, fasteners

Alloy Steel

Alloy steels are designed to have superior strength, toughness, and resistance to wear, fatigue, and corrosion. They are ideal for applications that require greater performance under extreme conditions.

Grade	Key Features	Applications
EN24	High tensile strength, toughness, wear resistance	Heavy-duty shafts, bolts, aircraft parts
EN19	Good balance of toughness, hardness, and wear resistance	Shafts, gears, connecting rods
42CrMo4	Excellent impact resistance, good fatigue strength	Hydraulic equipment, machine spindles, crankshafts
36CrNiMo6	High strength, excellent wear resistance	Gears, shafts, automotive components
SAE 8650H	Good toughness, high fatigue strength	Automotive parts, crankshafts, gears
AISI 4130	Good weldability, strength, and fatigue resistance	Structural tubing, aircraft components, gears
AISI 4145	High toughness, shock-resistant	Drill collars, heavy-duty machinery components
AISI 8620	Case-hardening steel, high core toughness	Gears, crankshafts, camshafts
AISI 9310	Excellent fatigue strength, case-hardening steel	Gears, high-stress components
AISI 4340	High strength, excellent fracture toughness	Aerospace components, heavy machinery parts
SAE 5140	Medium carbon, high toughness	Shafts, gears, automotive parts
15CrNi6	Good case-hardening properties, high toughness	Transmission parts, gears
17CrNiMo6	High fatigue strength, case-hardening	High-wear components, shafts, gears
SAE 4340	High-strength alloy steel, good impact resistance	Aircraft landing gear, heavy-duty shafts
AISI 9840	High toughness, good fatigue resistance	Automotive gears, machine components
AISI 8740	High tensile strength, good impact resistance	Bolts, fasteners, aerospace parts
SNCM439	Nickel-chromium alloy with high fatigue strength	Shafts, gears, automotive parts
EN25	High-strength alloy steel with excellent toughness	Crankshafts, bolts, shafts
AISI 4150	Medium carbon, high-strength alloy steel	Shafts, gears, machine parts
AISI 6150	Chromium-vanadium alloy, excellent fatigue strength	Springs, torsion bars, high-stress machinery
AISI 52100	High-carbon, chromium-bearing steel	Bearing parts, precision components
SAE 9260	High-strength, silicon alloy for springs	Leaf springs, torsion bars
AISI 9315	Case-hardening, high fatigue strength	Gears, automotive parts, high-wear components

Tool and Die Steel

Tool steels are engineered to provide exceptional hardness, wear resistance, and toughness, making them ideal for cutting tools, dies, molds, and high-stress applications in industrial production.

Grade	Key Features	Applications
D2	High wear resistance, air-hardening steel	Cutting tools, dies, punches, shear blades
H13	Excellent thermal fatigue resistance	Die casting molds, extrusion dies, forging dies
SKD11	High toughness, wear-resistant	Precision dies, automotive tools
O1	Oil-hardening, excellent dimensional stability	Punches, dies, cutting tools
M2	High-speed steel with excellent wear resistance	Drill bits, saw blades, cutting tools
A2	Air-hardening steel with good toughness	Blades, punches, dies, plastic molds
P20	Pre-hardened tool steel, high machinability	Injection molds, die casting molds
D3	High-carbon, high-chromium tool steel	Cold-work tools, dies, punches
T1	High-speed tool steel, excellent heat resistance	Cutting tools, drill bits, saw blades
H11	Excellent resistance to thermal fatigue	Die-casting molds, forging dies
AISI S7	Shock-resistant tool steel, good toughness	Punches, dies, shear blades
W1	Water-hardening steel, high wear resistance	Cutting tools, knives, reamers
M42	High-speed steel with excellent wear resistance	Drill bits, cutting tools, end mills
O2	Oil-hardening steel, good wear resistance	Shear blades, cutting tools, dies
D6	High carbon, high chromium with excellent hardness	Wear-resistant tools, dies, molds
H21	High-speed tool steel with excellent heat resistance	Hot forging dies, extrusion tools
D7	High wear resistance, high carbon tool steel	Cold-work tools, dies, punches
AISI M50	Excellent wear resistance, high-speed tool steel	Cutting tools, bearings
AISI T15	High-speed tool steel with excellent heat resistance	Saw blades, milling cutters, drill bits
O6	Oil-hardening steel, good toughness	Dies, cutting tools, shear blades
P6	Mould steel with high hardness and wear resistance	Die casting molds, forging tools
M35	High-speed tool steel with good wear resistance	Cutting tools, drill bits, end mills

Stainless Steel

Stainless steels are known for their excellent corrosion resistance, strength, and durability, making them essential in industries requiring hygienic and oxidation-resistant materials.

Grade	Key Features	Applications
SS 303	Free-machining, excellent for high-speed processing	Screws, nuts, bolts, precision machined parts
SS 304	Excellent corrosion resistance, good formability	Kitchen equipment, sinks, piping systems
SS 304L	Low carbon, improved weldability	Pharmaceutical equipment, chemical processing
SS 316	Marine-grade, high resistance to chlorides	Marine environments, medical devices
SS 316L	Low carbon, excellent for welding in corrosive environments	Marine applications, chemical processing
SS 310	High temperature resistance, good oxidation resistance	Furnace parts, heat exchangers
SS 321	Good corrosion resistance, stabilized against carbide precipitation	Aircraft components, exhaust systems
SS 347	Stabilized stainless steel, good creep resistance	High-temperature equipment, aerospace
SS 430	Cost-effective, good corrosion resistance	Automotive trim, kitchen appliances
SS 410	Good hardenability, high strength	Turbine blades, cutlery, valves
SS 420	High hardness, good polishability	Surgical instruments, cutlery, valves
SS 440C	Excellent wear resistance, high hardness	Bearing parts, tools, cutlery
SS 904L	High corrosion resistance, low carbon content	Chemical processing, oil and gas industries
SS 2205	Duplex stainless steel, high strength, good corrosion resistance	Oil and gas, chemical processing equipment
SS 2507	Super duplex stainless steel, excellent corrosion resistance	Marine environments, chemical processing
17-4PH	High strength, corrosion resistant, precipitation hardening	Aerospace components, nuclear industry
15-5PH	High strength, corrosion-resistant	Aerospace, chemical, and petrochemical industries
SS 202	Cost-effective alternative to 304, good corrosion resistance	Kitchen utensils, architectural components
SS 201	High strength, good corrosion resistance	Cookware, sinks, appliances
SS 430F	Free-machining version of 430	Screws, bolts, machined parts
SS 904L	High corrosion resistance, good weldability	Chemical and petrochemical processing
SS 301	High tensile strength, good formability	Springs, aircraft components, automotive trim

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