

## RAISE YOUR GRADE

We don't just manufacture steel; we create opportunities for excellence. With more than 500 high-performance alloy, carbon and microalloy steels—crafted to the most rigorous specifications—our job is to ensure every solution we deliver is not just satisfactory but also exceptional.

From specialty steel bar to seamless mechanical tubing to semifinished components, we've always set the bar high—and then we raise it.

Our steel is a testament to precision and endurance because everything can hinge on its strength. That's why we offer a spectrum of quality levels, from commodity to military-grade melts, in a variety of chemistries, lengths and conditions, to suit practically any specification.

What truly sets us apart is forging partnerships. Connect with us to discover a team fluent in the nuances of global coordination and adept at guiding your project through every stage.

Because when you elevate your expectations, success follows.

## CARBON STEEL

We offer the most sought-after carbon steel grades. Gain confidence in superior performance, resilience and consistency as the starting point for enduring components, equipment and infrastructure.

### Common Grades:

1018	1045	1340	1080
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## HIGH-STRENGTH STEEL

Our portfolio of high-strength (HS) steels empowers industries to achieve new heights in strength-to-weight efficiency, versatility and market competitiveness.

### Common Grades:

HS220-18	HS220-27
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## ALLOY STEEL

Crafting alloy steel is like conducting a symphony of elements, where science converges with artistry. By skillfully orchestrating strength, resilience and ductility, we bring diverse metals and compositions into perfect harmony.

### Common Grades:

4027	4130	4140	4320	4820
4118	4137	4145HSX	4340	
5130	5160	5120	52100	
8617	8720	8640	9310	
8630	8620	8822		

## METALLUS-EXCLUSIVE STEEL

When challenges loom large, we tune our research and development efforts to compose ideal solutions. Join us in redefining what's possible.

### 4145HSX

Our engineered chemistry meets heightened mechanical property demands for drill collars and other drilling applications.

### 4130ModSS

Engineered for sour service and high-strength (110 and 125 ksi) requirements.

### AF9628

HSLA steel for aerospace and defense applications like landing gear, structural components and missile systems.

### D6A

Ultra-high-strength steel used in the construction of military vehicle frames, aircraft rotors and naval vessel propeller shafts.

### HF1

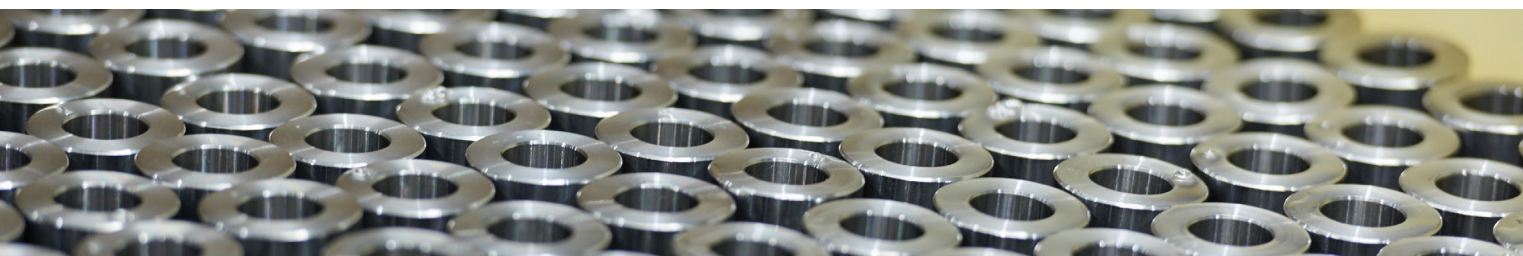
High-fragmentation steel for munitions.

### IMPACT 7

Specifically formulated to resist fracture and deformation in mining, construction and heavy equipment manufacturing, but also to increase strength, toughness and corrosion resistance in oil well completion accessories.

### MICROTEC™ FAMILY OF STEELS

Improves machinability, minimizes distortions and reduces costs by eliminating heat treatment and streamlining processing.



## QUALITY LEVELS

We can tailor production to match the specific needs of your project across a spectrum of quality tiers. Employing rigorous steelmaking, processing and testing methodologies, we uphold the most exacting standards with an expertise born of habit.

### ULTRAPREMIUM™ TECHNOLOGY: A GAMECHANGER FOR NEARLY ANY GRADE

Unlocking the potential for enhanced durability and efficiency begins with pristine steel. Through our proprietary processes and exclusive assets, we revolutionize steelmaking, significantly minimizing oxide inclusions compared to traditional methods.

The outcome? Optimal performance and service life at a fraction of the cost of remelted alternatives.

Reach out to see how **Ultrapremium** technology can enhance the performance of your steel.



### PARAPREMIUM

Our customers favor this steel for its prowess in handling supremely demanding tasks and adhering to rigorous requirements like magnetic particle inspection and macro-etch limits.

#### Specifications:

AMS 2304

#### Common Grades:

8620      4320

### AIRCRAFT

This high-performance, clean steel is preferred for highly stressed aircraft parts, including landing gear and brakes.

#### Specifications:

AMS 2301

#### Common Grades:

4140      4340

### BEARING

Spanning from conventional alloy carburizing to high-carbon chromium grades, this quality tier ensures optimal performance and longevity in bearing applications.

#### Specifications:

ASTM A534      A295

#### Common Grades:

8620      52100      100Cr6      4320

### ELECTRIC FURNACE DEGASSED STEEL

All our steel is produced using an electric furnace and degassed. This is best for the environment, reduces hydrogen content and improves cleanliness. Our clean steel-melting practices are part of every ton of steel we produce.

### COMMERCIAL QUALITY

The everyday hero of alloy steel bars and tubes, this steel is perfect for applications where the stakes aren't as high. We meticulously craft this steel to standard chemical ranges and limits, ensuring it meets the regular requirements for typical constructional needs.



## HELP WITH YOUR GRADES

Rely on our extensive resources, network and know-how to deliver a Metallus solution or to refine the product you seek.

No matter the grade you specify, we consistently deliver by ensuring it's perfectly suited for your application. Once we've pinpointed the formula for your success, we strive to ensure each shipment meets your expectations.

## WE SEE METAL DIFFERENTLY

<b>SELECTION</b>	500+ common grades	Metallus-exclusive steels	Cleanest air-melt steel
<b>SIZE</b>	SBQ bar 1" to 16" (25mm–406mm)	SBQ rounded-corner squares 3.1" to 12.5" (79mm–318mm)	Seamless tubing 3" to 13" (76mm–330mm)
<b>STRENGTH</b>	Centralized operation (Canton, Ohio)	1.2 M tons annual melt capacity across three plants	Premier heat treat capabilities; largest vertical bloom caster in NA
<b>SERVICE</b>	End-to-end program and supply chain management	Technical support and testing	Application and conversion services
<b>STEWARDSHIP</b>	100% of products include recycled material	EAF process with less emissions than a blast furnace	44% drop in combined Scope 1 and 2 GHG emissions since 2018

Visit [METALLUS.COM](https://www.metallus.com), call us at 866.284.6536 (USA) or email [quotes@metallus.com](mailto:quotes@metallus.com).

**METALLUS**