



## WHERE MOBILITY MEETS METALLURGY

Our journey with the automotive industry began in the early 1900s with the crafting of precision bearings and the steel that strengthens them. Today, we serve as a leading provider of many specialized grades that power the transfer of energy in a diverse array of vehicles.

From sedans to heavy-duty trucks, electric cars to high-octane racers, millions of motorists rely on Metallus metals every day. Whether it's propelling engines, transmitting torque or driving drivelines, our products play a vital role in moving the world forward.

With over 500 precision grades and the ability to engineer exclusive innovations, we've made a habit of tackling the toughest challenges.

**BECAUSE ALL PROJECTS HAVE TWISTS  
IN THE ROAD—WE'LL HELP YOU DELIVER  
EXCELLENCE AT EVERY TURN.**



## THE WEIGHT IS OVER

With options tailored to suit the evolving needs of Plug-In Hybrid Electric Vehicle (PHEV), Battery Electric Vehicle (BEV), Hybrid (Internal Combustion Engine + Battery) as well as traditional Internal Combustion Engine (ICE) vehicles, Metallus stands ready to fuel the next chapter of automotive excellence.

### WHERE WE EXCEL

#### CRANKSHAFTS

We are a premier supplier of crankshaft steels to forging customers across North America.

#### GEARS

Put our century of experience producing clean, high-quality steel for the gears industry to work.

#### BEARING HUBS

Metallus has been instrumental in advancing bearing hub technology at every turn.

#### CVT COMPONENTS

Today, we're leading the charge in supplying critical continuously variable transmission components such as pulleys and gears.

#### CVJ COMPONENTS

We are a leading provider of constant velocity joint components for front-wheel driveline assemblies.

#### AXLES

Our seamless mechanical tubing is the product of choice for unparalleled strength and reliability.

#### SHAFTS

We apply materials and manufacturing expertise to produce planetary shafts that exhibit minimal friction and wear.

#### FUEL SYSTEM COMPONENTS

Metallus ultraclean steel solutions are designed to withstand high pressures and corrosion.

## LIGHT VEHICLES

As our customers advance power-dense designs, we craft lightweight alloys that enhance fuel economy—backed by full program management to support launches and facilitate new applications.

#### CRANKSHAFTS

Metallus MicroTec® grades, including 1530, are the result of our material science mastery, crafted to eliminate the need for post-forged heat treatment while offering enhanced machinability.

**Common Grade:** 15XXV microalloyed steel

#### POWERTRAIN GEARS AND SHAFTS

Our **Ultrapremium™** certified air-melt technology enhances grades suited for automotive applications with heat treat properties that ensure gears and shafts operate at peak performance.

**Common Grades:** 4140, 4320, 5130, 5120

#### HUBS

We deliver our signature blend of clean, high-performance 1050 steel to not only meet but also exceed rigorous bearing hub load requirements.

**Common Grade:** 1050

## MEDIUM- AND HEAVY-DUTY TRUCKS

Whether a bustling bus, sturdy freightliner or nimble delivery van, our products help ensure smooth journeys.

We're counted on for pristine cleanliness and top-tier quality, especially when it comes to steel grades for vital powertrain components. Armed with larger-size capabilities, higher reduction ratios and melt capacity to match, Metallus can handle the most demanding manufacturing needs.

### CRANKSHAFTS

Trusted by customers for its strength and reliability, our steel grade 1530 stands tall as a shining star among our MicroTec options.

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**Common Grade:** 15XXV microalloyed steel

### POWERTRAIN GEARS AND SHAFTS

Our expertise extends to VacTec™ vacuum-carburizing steels that revolutionize gear performance with enhanced heat treat properties and to crafting shafts of various sizes that spin effortlessly with reduced friction and wear.

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**Common Grades:** 4140, 4320, 5130, 5120

### HUBS

We bolster the pivotal connection point for wheels with our renowned steel grade 1050.

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**Common Grade:** 1050

## MOTORSPORTS

We thrive on challenging the status quo. Our passion for customization empowers us to serve specialized sectors like high-performance racing.

Using our cutting-edge **Ultrapremium** certified air-melt technology, we craft custom alloy grades precisely tailored to the rigorous demands of gears, bearings and crankshafts. With our dedicated technical service team by your side, we'll ensure that Metallus metals set the pace.

### CRANKSHAFTS

Our high-octane grade HS220-27 is the secret weapon that fuels the fire for racing drivers craving unparalleled performance on the track.

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**Common Grade:** 1050, HS220-27, EN30B

## ELECTRIC VEHICLES

As the market shifts from combustion engines to electric powerhouses, our customers have placed their trust in us, knowing that we're not just along for the ride—we're helping to drive the change.

Because we've never been bound by convention. From tailored SBQ steel and tubing designs to unique sizes and treatments, we deliver exactly what's needed—even if it means creating a new blueprint.

### MOTOR ROTOR SHAFTS

Grade 5120, one of our VacTec vacuum-carburizing automotive steels, provides the strength world-class manufacturers expect.

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**Common Grade:** 5120

### FINAL DRIVE PINION SHAFTS

Metallus steel is the muscle that transmits torque from the motor to the wheels, ensuring smooth and powerful performance.

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**Common Grade:** 5120

### GEAR MATERIALS

We manufacture multiple VacTec grades so that our customers can propel their designs with precision.

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**Common Grades:** 4140, 4320, 5130, 5120

### HUBS

Our steel grade 1050 is the cornerstone of pivotal connection points.

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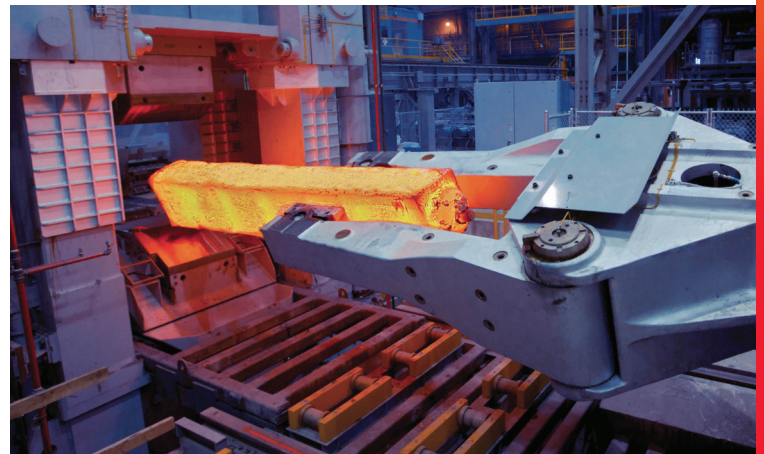
**Common Grade:** 1050

### BEARINGS

We craft steel of immaculate purity, ensuring you roll out a perfect solution.

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**Common Grades:** 52100, 8620





## RAISE YOUR GRADE

Rely on our extensive resources, network and know-how to deliver a Metallus solution, or benefit from our conversion service capabilities to refine steel from other sources.

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

**WE'RE MAKING EVERY MILE SAFER AND MORE EFFICIENT.**

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