Gerdau GERDAU Shape the future Gerdau



The new, state-of-the-art Gerdau Midlothian Steel Processing heat treatment facility

Gerdau's Quench & Tempered bars are made at Gerdau Midlothian Steel Processing (GMSP), adjacent to Gerdau's Midlothian steel mill and 80-megwatt solar farm. GMSP is the most technologically advanced heat treatment facility in North America. Our process adds strength and improves resistance to impact and abrasion, enabling customers to machine distortion-free parts, eliminating processes including stress relieving and straightening, resulting in cost savings.

GERDAU QUENCH & TEMPERED ADVANTAGES

ONE PIECE AT A TIME

Each bar is individually heat treated, superior to "batch" treatment.

UNIFORM HEATING

Each rotating bar is uniformly heated to a precise temperature.

INDIVIDUAL QUENCHING

Each bar is individually quenched through a proprietary process, achieving optimum transformation kinetics.

SUPERIOR STRAIGHTNESS

Rotation of individual bars through the spray quench leads to superior straightness.

UNIFORM HARDNESS

Every bar has uniform hardness end-to-end, piece-to-piece, and order-to-order.

STRESS FREE

Each bar is stress free, and ready for critical part applications.

STRENGTH & TOUGHNESS

Our advanced process produces a fully martensitic structure, allowing for demanding strength and toughness requirements.

VALUE-ADDED SERVICES

Orders can be custom cut for specific applications, along with other available services.



gerdau.com

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Inaugural GMSP shipment, with Gerdau's Midlothian steel mill and solar farm in background

SPECIFICATIONS & CAPABILITIES

GRADES TREATED & AVAILABLE TREATMENTS

All heat treatable grades of carbon and alloy steels. Available treatments include: guench & temper; normalizing; and stress relieving.

BAR PRODUCTS

• Hot finished

LENGTH CAPACITY

• 20 ft. to 65 ft.

STRAIGHTNESS TOLERANCES

• 0.25" per 5 ft.

CUTTING

• Cut-to-length for product applications

OTHER VALUE-ADDED SERVICES

- Demagnetization
- Metallurgical support
- Complete traceability •
- **Complete test reports** •
- Small quantities available
- Color coding
- Experimental or trial orders
- Short lead times
- On-time, all-the-time delivery
- Overseas packaging

TYPICAL APPLICATIONS

- Bolting stock
- Construction equipment
- Motor shafting

- Crane booms
- Drill collars

- Farm equipment
- Off-road equipment
- Oil country accessories
- Perforator guns
- Screw machine parts
- Tool ioints
- Trucks & trailers

