

BAR ROLLING & HEAT TREATING



**GERDAU SBQ ROLLING MILLS
UTILIZE CUTTING EDGE TECHNOLOGIES,
INCLUDING CONTROLLED REHEATING
AND PRECISION SIZING.**



BAR ROLLING

GerdaU steel bars are produced through very exacting quality control procedures in order to assure a product that is free of inclusions, internally sound and virtually free of seams. Prior to bar rolling, billets are brought to proper uniform temperature through gas-fired walking beam reheat furnaces. Product is then descaled by a high pressure water descaler and then rolled to the desired size through German-engineered precision sizing blocks.

After rolling, the bars are saw cut to exact multiple lengths and ends can be chamfered and stamped with heat numbers. Throughout the rolling process, bars are repeatedly inspected. No bars are shipped until all tests are completed and released by our metallurgical engineers.

HEAT TREATING

Efficient heat treating broadens the spectrum of properties within steel bars. It is performed to improve machinability, increase toughness, improve cold forming characteristics, alter hardness and tensile strength up or down and to relieve residual stress and improve shearability. GerdaU has in-house heat treating capabilities that include:

- Cold Shear Annealing
- Thermal Stress Relieving
- Normalizing
- Lamellar Pearlitic Annealing
- Spheroidize Annealing
- Quench and Tempering

