

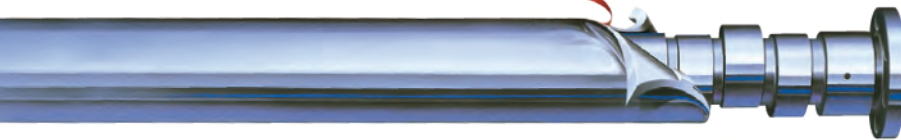
MACPLUS® STEEL BARS ARE ENGINEERED TO IMPROVE YOUR BOTTOM LINE



MACPLUS® steel bars are unique from other cold finished steel bars because they combine the advantages of Gerdaul's production and technical expertise with superior dimensional accuracy. The uniform chemistry and microstructure along with a defect free surface may improve machinability up to 30%.



These exceptional cold finished steel bars are available in all carbon and alloy grades, including micro-alloyed and quench and tempered steels. MACPLUS® bars can be metallurgically tailored to suit your demanding requirements. Also, with Gerdaul's historic leadership in ladle metallurgy and vacuum arc degassing we can offer alloy steels that are among the cleanest in the world.



DIMENSIONAL TOLERANCES (All Minus)			
Size in Inches	C to 0.28% Carbon/Alloy Inches	C to 0.28% to 0.55% Carbon/Alloy Inches	Any Heat Treat and/ or C>0.55% Carbon/Alloy Inches
To 1 ½ incl.	.002/.003	.003/.004	.005/.006
>1 ½ to 2 ½	.003/.004	.004/.005	.006/.007
>2 ½ to 4	.004/.005	.005/.006	.007/.008
>4 to 5 incl.	.005/.006	.006/.007	.008/.009

DEVIATION FROM STRAIGHTNESS IN 10FT., IN INCHES		
Length, Feet	C ≤ 0.28%	C>0.28% and all Heat Treat
<15	1/16	1/8
15 and Over	1/8	3/16

MACPLUS® Cold Finished Steel Bars

Size and Length Range

Rounds: 0.875" to 5" (22 mm to 127 mm)

Lengths: 10 through 32 feet (3m to 9.75m)

MACPLUS® Advantages

- Defect-Free Surface
- Decarb-Free Surface
- Scale-Free Surface
- Improved Machinability
- Tighter Size Tolerances and Concentricity

MACPLUS® Surface Quality

Surface Finish: 25 microinches RA max.

Decarburization: None

Defect Depth: None

Surface Appearance: Shiny, clean

Residual Stress, Warp Factor: -0.020" to -0.030"

Typical Customer Yield Improvement

Carbon and Alloy: 6 to 8%

Resulfurized: 9 to 11%