



Can Do.

RAISING THE BAR FOR STRENGTH AND STRAIGHTNESS

THUNDER BAR



THE HIGHEST STRENGTH MANIFOLD BAR

48 KSI
UTS
MIN

44 KSI
YS
MIN


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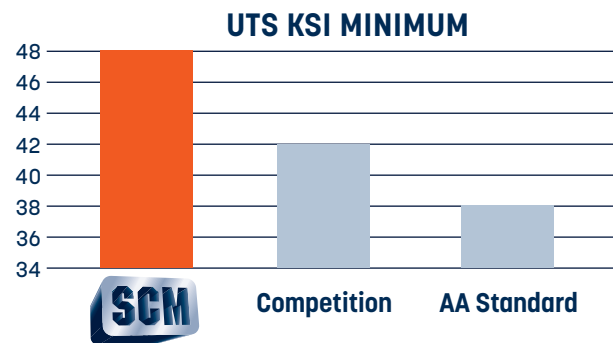


THUNDER BAR THE HIGHEST STRENGTH MANIFOLD BAR

Mechanical Properties 6061-T6511


- Superior Ultimate Tensile Strength and Yield Strength.
- Material consistency to maximize machinability and anodizing quality.
- Enhanced production and quality control standards ensure peak performance.
- Ultra square and laser straight for high speed CNCs and precision saws.
- Pristine surface that is carbon free.

	UTS KSI Min	YS KSI Min	Elongation % Min
	48	44	10
Competition	42	38	10
AA Standard	38	35	10



Material Tolerances 6061-T6511

Manifold Bar Tolerances

	THUNDER  BAR	Competition	Aluminum Association Standard
Straightness	.0055" max/ft .066" max/12ft	.006" max/ft .075" max/12ft 1/2	.0125" max/ft .150" max/12ft
Twist	1/2 AA Standard/ft 1/2 AA Standard/12ft	1/2 AA Standard/ft 1/2 AA Standard/12ft	AA Standard/ft
Flatness	.002"/inch	.002"/inch	.004"/inch
Surface Finish	Typical 85 Ra	Typical 90 Ra	AA Standard
Dimensional Tolerances	1/2 commercial all on plus side	1/2 commercial all on plus side	AA Standard



Can Do.

Melt > Billet > Bar > Machinability

Our Unique Production Process

- Stringent control of temperature, chemistry and melt cleanliness to the highest standards.
- Our cast and *continuously homogenized* log ensures a more consistent microstructure for improved machinability.
- Continuously ultrasonic test every cast log from end-to-end before cutting it into billet.
- Upgraded press line providing consistent grain structure for better machining and anodizing quality.
- Thunder Bar provides improved chipping, better machined surface and minimal burr by having the highest minimum UTS (48 KSI) and tightest manifold bar tolerances in the industry.

Thunder Bar Application

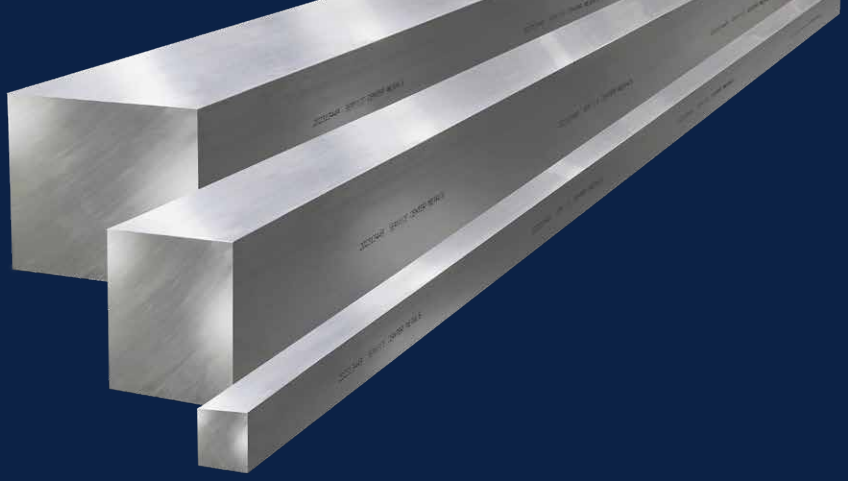
- Hydraulic & Pneumatic Manifolds
- Actuators
- Machinery Equipment
- General Machining



SCM "Can Do" - Improving Your Production

- Custom lengths and sizes for better yield.
- Short lead times help maximize production.
- Immediate delivery from our Orange Crush floor stock improves inventory turn.
- Creative solutions > Improved product > Better performance > Lower costs





Ask your local metals distributor for

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MIN

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