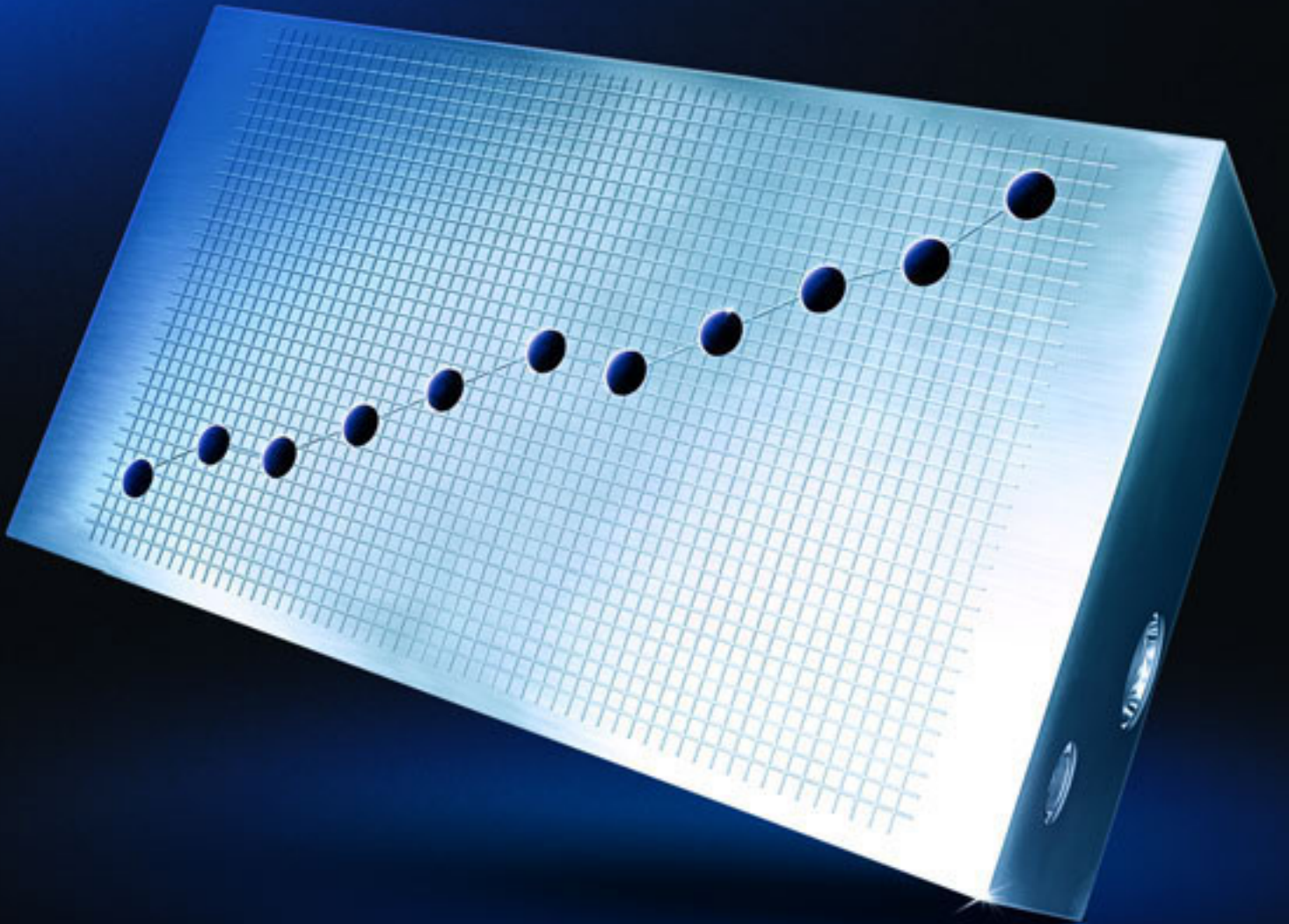


Overachieve.





THE PRECISION ALUMINUM BAR THAT LETS YOU DO MORE, FASTER, WITH LESS:

ACC-U-BAR.™



By employing the use of improved 6061 chemistry and thermal processing, Alcoa Engineered Products has created Acc-U-Bar, a superior extruded aluminum product for high-speed machining.

Featuring tighter tolerances, improved straightness and reduced twist, Acc-U-Bar provides superior machining at the lowest total processing cost for the most demanding jobs.

Benefits

- Minimum setup time due to dimensional stability and ultra-tight tolerances
- All plus-side tolerances for improved part cleanup
- Reduced machining forces, cutting times and tool wear

Superiority

Proven superior to other bars on select machining processes*

- Up to 30% improved finish on machined surfaces*
- Up to 35% reduction in machining torque (ft./lbs.) and thrust (lbs.)*

*Based on independent laboratory tests of lot-to-lot comparisons of Acc-U-Bar to leading competitive bar products and standard 6061-T6511 bar samples at a 95% confidence level.

COMPARATIVE MECHANICAL PROPERTIES

Property	Acc-U-Bar™		Aluminum Association Standard	
	6061-T6H,-T6511H		6061-T6,-T6511	6082-T6,-T6511
Min. Ultimate Tensile (ksi)	42		38	45
Min. Yield Strength (ksi)	38		35	38
Minimum Elongation (%)	10		10	8

COMPARATIVE TOLERANCES (INCHES)

Dimension	Acc-U-Bar™		Aluminum Association Standard 6061-T6511 Bar	
	0.004 inch per inch		0.004 inch per inch	
Straightness	.008 in./ft. (0.100" in 12')		.0125 in./ft.	
Angularity	1/2°		1°	
Flatness Maximum Allowable Deviation Per Inch Of Width Or Thickness	0.004 inch per inch		0.004 inch per inch	
Twist Allowable Deviation From Straight	Width (")	Tolerance	Width (")	Tolerance
	1.500-2.999	1/2°/ft.	1.500-2.999	1/2°/ft.
	3.000-8.000	1/4°/ft.	3.000 and over	1/4°/ft.

Available Alloys
6061-T6H, -T6511H (meets standard 6061 industry specifications)
6082-T6, -T6511
Certified to ASTM B 221 and ASME SB 221 (alloy 6061) and to applicable Federal, Military and Aluminum Association specifications; producing plants are BS EN ISO 9001; 2000 certified.

Standard Sizes (inches)					
Thickness x Width (")	wt./ft.	Section#	Thickness x Width (")	wt./ft.	Section#
1.500 (+.014) X 1.500 (+.014)	2.671	550600	1.500 (+.014) X 5.000 (+.034)	8.891	550631
2.000 (+.024) X 2.000 (+.024)	4.761	550601	2.000 (+.024) X 5.000 (+.034)	11.871	550632
2.500 (+.024) X 2.500 (+.024)	7.421	550602	2.500 (+.024) X 5.000 (+.034)	14.821	550633
3.000 (+.024) X 3.000 (+.024)	10.669	550603	3.000 (+.024) X 5.000 (+.034)	17.771	550634
3.500 (+.024) X 3.500 (+.024)	14.546	550604	3.500 (+.024) X 5.000 (+.034)	20.750	550635
4.000 (+.034) X 4.000 (+.034)	18.976	550605	4.000 (+.034) X 5.000 (+.034)	23.700	550636
4.500 (+.034) X 4.500 (+.034)	23.994	550606	4.500 (+.034) X 5.000 (+.034)	26.650	550637
5.000 (+.034) X 5.000 (+.034)	29.600	550607	1.500 (+.014) X 5.500 (+.034)	9.777	550638
5.500 (+.034) X 5.500 (+.034)	35.794	550608	2.000 (+.024) X 5.500 (+.034)	13.054	550639
6.000 (+.044) X 6.000 (+.044)	42.647	550609	2.500 (+.024) X 5.500 (+.034)	16.298	550640
1.500 (+.014) X 2.000 (+.024)	3.566	550610	3.000 (+.024) X 5.500 (+.034)	19.542	550641
1.500 (+.014) X 2.500 (+.024)	4.452	550611	3.500 (+.024) X 5.500 (+.034)	22.818	550642
2.000 (+.024) X 2.500 (+.024)	5.944	550612	4.000 (+.034) X 5.500 (+.034)	26.062	550643
1.500 (+.014) X 3.000 (+.024)	5.338	550613	4.500 (+.034) X 5.500 (+.034)	29.306	550644
2.000 (+.024) X 3.000 (+.024)	7.127	550614	5.000 (+.034) X 5.500 (+.034)	32.550	550645
2.500 (+.024) X 3.000 (+.024)	8.898	550615	1.500 (+.014) X 6.000 (+.044)	10.672	550646
1.500 (+.014) X 3.500 (+.024)	6.233	550616	2.000 (+.024) X 6.000 (+.044)	14.249	550647
2.000 (+.024) X 3.500 (+.024)	8.322	550617	2.500 (+.024) X 6.000 (+.044)	17.790	550648
2.500 (+.024) X 3.500 (+.024)	10.390	550618	3.000 (+.024) X 6.000 (+.044)	21.331	550649
3.000 (+.024) X 3.500 (+.024)	12.458	550619	3.500 (+.024) X 6.000 (+.044)	24.907	550650
1.500 (+.014) X 4.000 (+.034)	7.119	550620	4.000 (+.034) X 6.000 (+.044)	28.448	550651
2.000 (+.024) X 4.000 (+.034)	9.505	550621	4.500 (+.034) X 6.000 (+.044)	31.989	550652
2.500 (+.024) X 4.000 (+.034)	11.867	550622	5.000 (+.034) X 6.000 (+.044)	35.530	550653
3.000 (+.024) X 4.000 (+.034)	14.229	550623	5.500 (+.034) X 6.000 (+.044)	39.071	550654
3.500 (+.024) X 4.000 (+.034)	16.614	550624	5.000 (+.034) X 6.500 (+.044)	38.480	550655
1.500 (+.014) X 4.500 (+.034)	8.005	550625	6.000 (+.044) X 6.500 (+.044)	46.188	550656
2.000 (+.024) X 4.500 (+.034)	10.688	550626	5.000 (+.034) X 7.000 (+.044)	41.430	550657
2.500 (+.024) X 4.500 (+.034)	13.344	550627	6.000 (+.044) X 7.000 (+.044)	49.729	550658
3.000 (+.024) X 4.500 (+.034)	16.000	550628	5.000 (+.034) X 7.500 (+.044)	44.380	550659
3.500 (+.024) X 4.500 (+.034)	18.682	550629	5.000 (+.034) X 8.000 (+.054)	47.359	550660
4.000 (+.034) X 4.500 (+.034)	21.338	550630	5.500 (+.034) X 8.000 (+.054)	52.079	550661
Acc-U-Bar is available in standard sizes from Alcoa and selected distribution partners.					
For more information, go to www.alcoa.com/go/accubar					



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