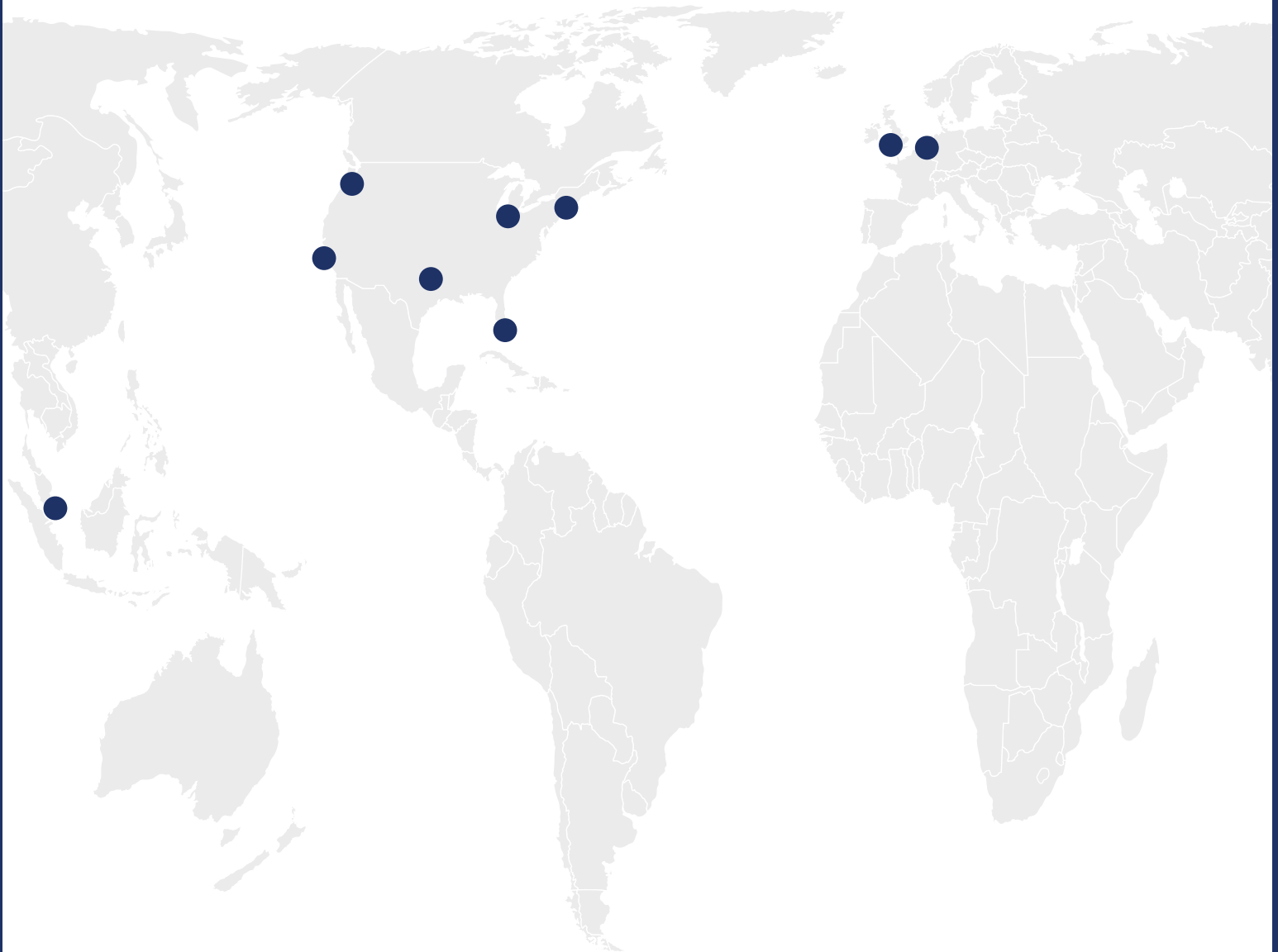


future metals



Aircraft **MRO** Services

A Marmon Distribution Services/Berkshire Hathaway Company





MRO SPECIALTY PRODUCTS & SERVICES



Future Metals created its "Aircraft MRO Services" division to provide the aircraft maintenance repair and overhaul industry with a focused dynamic supply chain partner who understands and can respond to your needs.

Future Metals - Aircraft MRO Services carries a broad inventory of aircraft quality metals and other specialty products such as seat tracks, seat track covers, welding rod, safety wire, flight control cables and more.

In addition, we offer a variety of services designed to meet your needs; these include a 24 hours a day AOG response team, specialty packaging solutions, materials processing services and a variety of inventory management programs.

Our MRO specialists are standing by to assist you with your needs at 1-844-AOG-DESK (1-844-264-3375) or simply email your requirements to AOG@FutureMetals.com

PRODUCTS

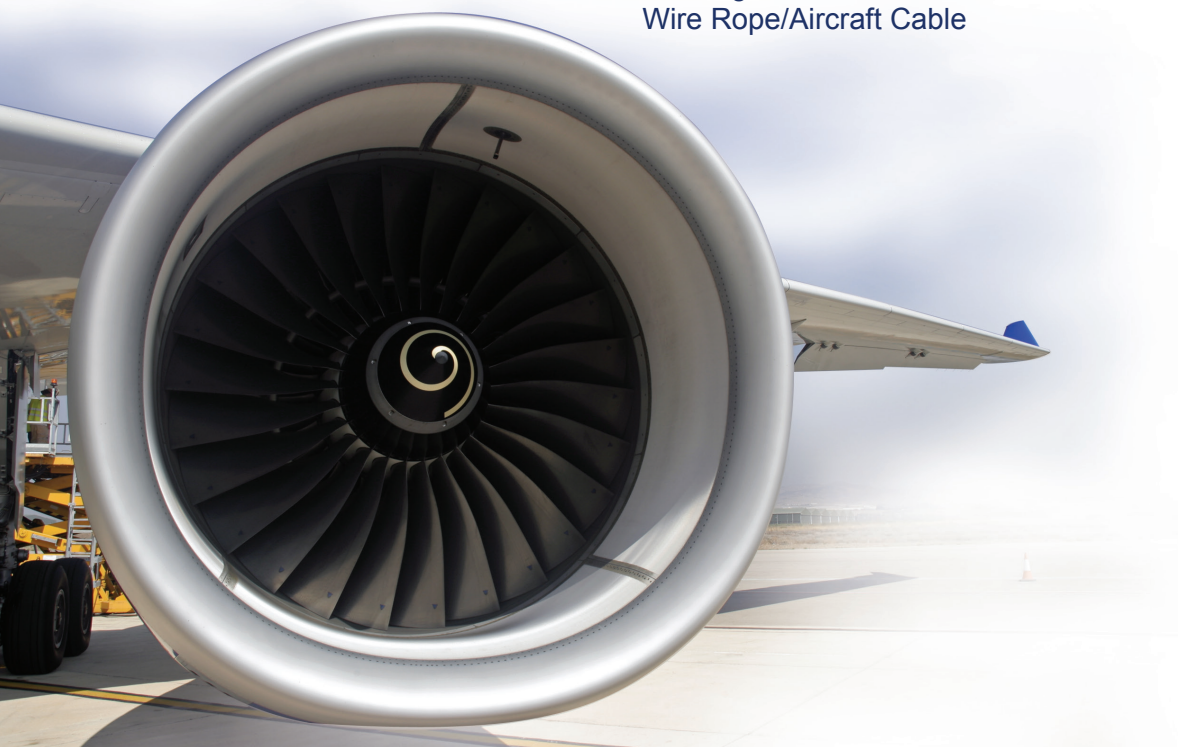
- Extrusion/Roll Form
- Sheet
- Bar
- Tubing
- Specialty Products
- Anodized Aluminum Sheet
- Laminated Shim Stock
- Safety Wire
- Plastic Seat Track Covers
- Welding Rod
- Wire Rope/Aircraft Cable

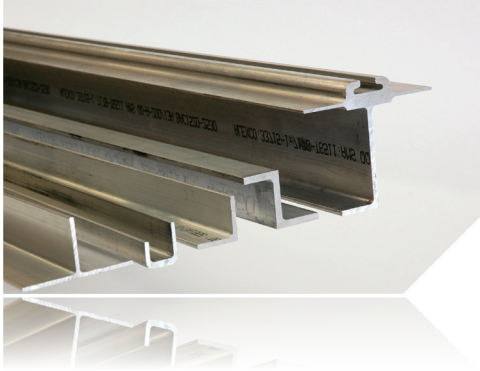
SERVICES

- PVC Coating
- Cut to Size
- Specialty Packaging
- Inventory Management Programs
- 24 Hour AOG Response Team

CONTACT INFO

AOG@FutureMetals.com
1-844-264-3375

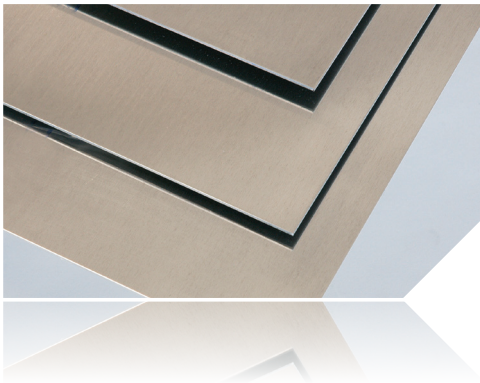




EXTRUSION, ROLL FORM & SEAT TRACK

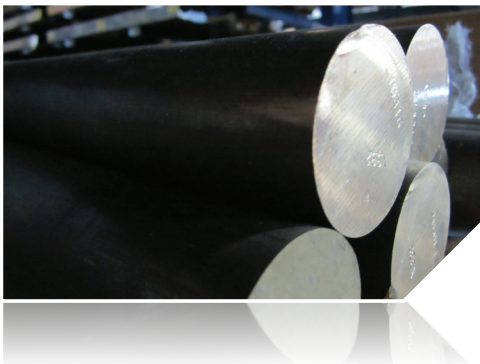
Boeing (BAC)
Airbus
Army Navy Design (AND)
Lockheed (LS)
ATR (NTA)
Bombardier

Fokker
Grumman
Douglas
Sikorsky
Cessna
Vought



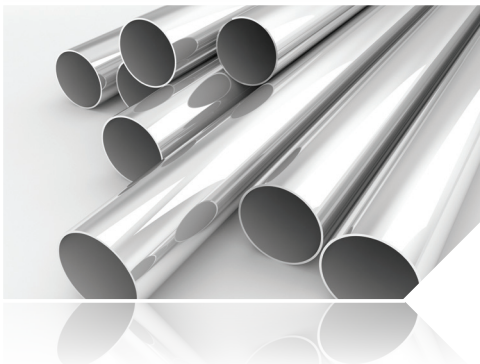
SHEET PRODUCTS

Aluminum
Stainless Steel
Titanium
High Temp
Alloy



BAR PRODUCTS

Aluminum Nickel Bronze
Beryllium Copper
Aluminum
Stainless
Titanium
High Temp



TUBULAR PRODUCTS

Aluminum
Stainless Steel
Titanium
High Temp
Alloy

Most Common Products

TUBULAR PRODUCTS

STAINLESS STEEL TUBING

GRADE	SPECIFICATION
17-7 PH	AMS 5568
304	AMS 5560, 5565, 5566, 5567, 5639
304	ASTM A249, A269
304	MIL-T-6845, 8504, 8506
321	AMS 5557, 5570, 5576, 5645
321	MIL-T-8606, 8808, 8973
347	AMS 5556, 5571, 5575
347	MIL-T-8606, 8808
316	AMS 5573
410	AMS 5591, 5613
21-6-9	AMS 5561, 5562, BMS 7-185

CUSTOMER SPECIFIC SPECIFICATIONS
DMS 1578, CVA-1-404, MMS 261, PWA 770, LAC-08-1173 & OTHERS

TITANIUM TUBING

GRADE	SPECIFICATION
C.P.	STM-08-301, BMS 7-21, MIL-T-9046
C.P.	AMS 4941, 4942, 4902
3AL-2.5V	PWA 1260, GE B50TF35, DMS 2241, AIRBUS, BMS 7-234
3AL-2.5V	AMS 4943, 4944, 4945, 4946, AS 5620
6AL-4V	AMS 4911

HIGH TEMP TUBING

GRADE	SPECIFICATION
200	ASTM B163
600	AMS 5580, PWA 1062
625	AMS 5581, GE, B50TF133, BMS 7-188, RMS 204 CL.1
718	AMS 5589, 5590, PWA 1065
X-750	AMS 5582
HX	AMS 5536, 5587, 5588
188	PWA 1042, 1088
L-605	GE B50T26, PWA 1064
A286	AMS 5731, 5732
AM 350	LAC-08-538
WASPALLOY	AMS 5586

ALLOY TUBING

GRADE	SPECIFICATION
4130	MIL-T-6736, AMS 6360, 6371, ASTM A519
4340	AMS 6415

ALUMINUM TUBING

ALLOY	SPECIFICATION
2024 DRAWN SEAMLESS	AMS WW-T-700/3, AMS 4088
2024 HYDRAULIC	AMS 4086
2024 EXTRUDED	AMS QQA-200/3, AMS 4152
3003 DRAWN SEAMLESS	AMS WW-T-700/2, AMS 4065
5052 DRAWN SEAMLESS	AMS WW-T-700/4, AMS 4070
5052 HYDRAULIC	AMS 4071
6061 DRAWN SEAMLESS	AMS WW-T-700/6, AMS 4082
6061 HYDRAULIC	AMS-T-7081, MIL-T-7081, AMS4081, 4083, ABS5151, BAMS517-001
6061 EXTRUDED	AMS QQ-A-200/8, AMS 4150
7075 DRAWN SEAMLESS	AMS WW-T-700/7
7075 EXTRUDED	AMS QQA-200/11
5086 EXTRUDED	

BAR PRODUCTS

ALUMINUM BAR-ROUNDS, HEX, SQUARE & FLAT/RECTANGLES

ALLOY	SPECIFICATION
2024 ROLLED/COLD FINISHED	AMS QQ-A-225/6, AMS 4120
2024 EXTRUDED	AMS QQ-A-200/3, AMS 4165
6061 ROLLED/COLD FINISHED	AMS QQ-A-225/8, AMS 4117
6061 EXTRUDED	AMS QQ-A-200/8, AMS 4173
7065 ROLLED/COLD FINISHED	AMS QQ-A-225/9, AMS 4123
7075 EXTRUDED	AMS QQ-A-200/11, AMS 4169

STAINLESS STEEL BAR-ROUNDS HEX, SQUARES, RECTANGLES & FORGINGS AVAILABLE

GRADE	SPECIFICATION
13-8 MO. V.M.	AMS 5629
15-5 PH V.M.	AMS 5659
17-4 PH	AMS 5643
17-7 PH	AMS 5644
303	AMS 5640
303 "B"	AMS 5738
304	AMS 5639
304 L	AMS 5647
316	AMS 5648
321	AMS 5645
347	AMS 5646
410	AMS 5612, 5613
416	AMS 5610
416 H.T.	AMS 5610
431	AMS 5628
440 C	AMS 5630

HIGH TEMPERATURE BARS ROUNDS & FORGINGS

GRADE	SPECIFICATION
A-286	AMS 5731, 5732, 5734
HAST X	AMS 5754
L-605	AMS 5759
RENE 41	AMS 5712
X-750	AMS 5667
625	AMS 5666
718	AMS 5662
WASPALLOY	AMS 5708

TITANIUM BAR, ROUNDS

GRADE	SPECIFICATION
6AL-4V	AMS 4928
6AL-4V	MIL-T-9047
6AL-4V	PWA-S4928
AVAILABLE BY SPECIAL ORDER:	
6-6-2	5-2.5 8-1-1 C.P.

AIRCRAFT ALLOYS STEEL BAR & ROUNDS HEX, SQUARE & RECTANGULAR AVAILABLE

ALLOY (AIRMELT)	SPECIFICATION
4130	AMS 6370, MIL-S-6758
4130HT	AMS 6370, MIL-S-6758
4140	AMS 6382, MIL-S-5626
4330MOD	AMS 6427
4340	AMS 6415, MIL-S-5000
6150	AMS 6448
8740	AMS 6322
52100	AMS 6440

ALLOY (VAC-MELT)	SPECIFICATION
H-11VM	AMS 6487
4330MODVM	AMS 6411
4340M	AMS 6414
9310M	AMS 6265
52100VM	AMS 6444

ALUMINUM NICKEL BRONZE

MATERIAL SPECIFICATIONS

QQC 00645B(1) C63000
ASTM B150 03 C63000 TQ50
AMS 4640 F96 TQ50
AMS 4640 F96 HR50
AMS 4590
AMS 4880

BERYLLIUM COPPER, ROUNDS & STRIP

MATERIAL SPECIFICATIONS

AMS 4533
ASTM B196
QQ-C-530
AMS 4534
AMS 4535
AMS 4650
AMS 4651

MOST COMMON PRODUCTS



SHEET PRODUCTS

HIGH TEMPERATURE SHEET STOCK

GRADE	SPECIFICATION
A286	AMS 5525 / B50T12A / B50T1181C
HAST X	AMS 5536 / B50T83A / B50A436C
L-605	AMS 5537
RENE 41	AMS 5545 / B50T59
X-750	AMS 5542 / MILN7786
188	AMS 5608 / B50TF59
600	AMS 5540
625	AMS 5599
718	AMS 5596 / B50TF14

ALUMINUM SHEET STOCK

ALLOY	ALCLAD/BARE	SPECIFICATION
2024-T3	ALCLAD	QQA-250/5, AMS 4041
2024-0	ALCLAD	QQA-250/5, AMS 4040
2024-T3	BARE	QQA-250/4, AMS 4037
2024-0	BARE	QQA-250/4, AMS 4035
7075-T6	ALCLAD	QQA-250/13, AMS 4049
7075-0	ALCLAD	QQA-250/13, AMS 4048
7075-T6	BARE	QQA-250/12, AMS 4045
7075-0	BARE	QQA-250/12, AMS 4044
6061-T6	BARE	AMS 4027
6061-T4	BARE	AMS 4026
6061-0	BARE	AMS 4025
6013-T4	BARE	AMS 4347
MRS SHEET		

AVAILABLE BY SPECIAL ORDER:
2219
2124
7175 / 7475
HI FORM 2024-0
T FORM 2024-T4

ALUMINUM PLATE AVAILABLE UPON REQUEST

TITANIUM SHEET

GRADE	SPECIFICATION
C.P. 1, A70, 75A	AMS-4901 / MIL-T 9046, TYPE 1 COMP. B / C.P.1, DMS 1536
C.P. 3, A40, 55A	AMS-4902 / MIL-T 9046, TYPE 1 COMP. A / C.P.3
6AL-4V ANN	AMS-4911 / MIL-T 9046, TYPE 3 COMP. C / AB1, DMS

STAINLESS STEEL SHEET

GRADE	SPECIFICATION
302	AMS 5513
304	AMS 5516
304L	AMS 5511
301 1/4 HARD	AMS 5517
301 1/2 HARD	AMS 5518
301 FULL	AMS 5519
301 ANN	AMS 5901
321 ANN	AMS 5510
347 ANN	AMS 5512
410 ANN	AMS 5504
15-4 PH	AMS 5862
15-7 MO	AMS 5520
17-4 PH	AMS 5604
17-7 PH	AMS 5528

ALLOY SHEET / PLATE

GRADE	SPECIFICATION
4130	AMS 6350 & 6345

SPECIALTY PRODUCTS

ANODIZED ALUMINUM SHEET

PHOSPHORIC ACID ANODIZED

BAC 5555
BAC 5514-589

LAMINATED SHIM STOCK

MATERIAL SPECIFICATIONS

AMS DTL-22499 (MIL-S-22499C)
AMS 4013
BMS 7-335
BAC1534
BACS40R
LS5909
STM07-105
P103-ADDITIONAL SPECIFICATIONS AVAILABLE

SAFETY WIRE

MATERIAL SPECIFICATION

AMS 5685
AMS 5687

PLASTIC SEAT TRACK COVERS

MATERIAL SPECIFICATION

BAC 1522

WELDING ROD

MATERIAL SPECIFICATION

AMS 4954
AWS A5.10
AWS A5.9

WIRE ROPE/AIRCRAFT CABLE

MIL-DTL-83420
BOEING BMS7-265
MIL-DTL-83140



MOST COMMON SHAPES OF EXTRUSIONS & ROLL FORMS

SHAPE DESCRIPTIONS

AND10133.....ANGLE, EQUAL LEG, EXTRUDED
AND10134.....ANGLE, UNEQUAL LEG, EXTRUDED
AND10135.....ANGLE, BULB, EXTRUDED
AND10136.....TEE, EXTRUDED
AND10137.....CHANNEL, EXTRUDED
AND10138.....ZEE, EQUAL LEG, EXTRUDED
AND10139.....ZEE, UNEQUAL LEG, EXTRUDED
AND10140.....I & H, EXTRUDED
AND10141.....TEE, BULB SECTION, EXTRUDED

BAC1489.....ANGLE, ACUTE AND OBTUSE, FORMED
BAC1490.....ANGLE, 90 DEGREES, FORMED
BAC1491.....CORRUGATED SECTION, FORMED
BAC1492.....MISCELLANEOUS SECTION, FORMED
BAC1493.....CHANNEL, U-SECTIONS, FORMED
BAC1494.....CHANNEL, C SECTIONS, FORMED
BAC1495.....CHANNEL, C, MISCELLANEOUS, FORMED
BAC1496.....CHANNEL, MISCELLANEOUS, FORMED
BAC1498.....CHANNEL, HAT SECTION, FORMED
BAC1500.....CHANNEL, FLANGED, FORMED

BAC1503.....ANGLE, EXTRUDED
BAC1504.....ANGLE, BULB, EXTRUDED
BAC1505.....TEE, EXTRUDED
BAC1506.....TEE, MISCELLANEOUS, EXTRUDED
BAC1507.....PI SECTION, EXTRUDED
BAC1508.....PI SECTION, MISCELLANEOUS, EXTRUDED
BAC1509.....CHANNEL, EXTRUDED
BAC1510.....CHANNEL, MISCELLANEOUS, EXTRUDED
BAC1511.....FILLER, RADIUS, TWO END, EXTRUDED
BAC1512.....FILLER, RADIUS, ONE END, EXTRUDED
BAC1513.....FILLER, MISCELLANEOUS, EXTRUDED
BAC1514.....ANGLE, MISCELLANEOUS, EXTRUDED
BAC1515.....ANGLE, BULB, MISCELLANEOUS, EXTRUDED
BAC1517.....ZEE, FORMED OR EXTRUDED
BAC1518.....I & H, EXTRUDED
BAC1519.....FORKS AND FITTINGS, EXTRUDED
BAC1520.....MISCELLANEOUS SHAPES, ALUMINUM, EXTRUDED
BAC1527.....MISCELLANEOUS SECTION, EXTRUDED, STEEL
BAC1650.....CHANNEL, MISCELLANEOUS, TITANIUM FORMED
BAC1660.....ANGLE, ROLLED TITANIUM ALLOY
BAC1670.....ANGLE, EXTRUDED, TITANIUM ALLOY
BAC1671.....TEE, MISC. EXTRUDED, TITANIUM ALLOY
BAC1675.....J" TITANIUM ALLOY, EXTRUDED
BAC1676.....MISC. SECTION, EXTRUDED, TITANIUM ALLOY

ABS5080A536.....SEAT TRACK
A532-74005.....SEAT TRACK
D530-70011.....SEAT TRACK
ABS5456C628.....SEAT TRACK
ASNA2223.....SEAT TRACK



TYPICAL ALLOYS & SPECIFICATIONS FOR EXTRUSIONS & ROLL FORMS



ALLOY/TEMPER	EXTRUSION SPEC
2014-O	AMS-QQ-A-200/2
2014-T4	AMS-QQ-A-200/2
2014-T4511	AMS-QQ-A-200/2
2014-T6	AMS-QQ-A-200/2
2014-T6511	AMS-QQ-A-200/2
2014A-T6511P	L168, ABP1-4046
2024-O	AMS-QQ-A-200/3
2024-T3	AMS-QQ-A-200/3
2024-T3511	AMS-QQ-A-200/3
2024-T3511	ASN-A6030&NFL15-501
2024-T4	AMS-QQ-A-200/3
2024-T81	AMS-QQ-A-200/3
2024-T8511	AMS-QQ-A-200/3
2024-T8511	STO170LB0052
2219-O	BMS7-118
2219-O	DMS2077
2219-O	ASTM B221
2219-T3511	BMS7-118
2219-T8511	STM3120
2219-T8511	BMS7-118
2219-T8511	AMS 4162
2219-T8511	DMS2077
2224-T3511	BMS7-255
2224-T3511	CMMP024
2249-T76511	STM04-115
5083-H111	AMS-QQ-A-200/4
5086-H111	AMS-QQ-A-200/5
6005-T5	ASTM B221
6061-O	AMS4160
6061-O	AMS-QQ-A-200/8
6061-T4	AMS-QQ-A-200/8
6061-T4511	AMS-QQ-A-200/8
6061-T6	AMS-QQ-A-200/8
6061-T6	ASTM B221
6061-T6510	AMS-QQ-A-200/8
6061-T6511	AMS-QQ-A-200/8
6061-T6511	AMS 4150
6063-O	ASTM B 221
6063-T1	ASTM B 221
6063-T4	ASTM B 221
6063-T5	ASTM B 221
6063-T5 ASTM B221	BRT DIP/CLR ANO
6063-T52	ASTM B 221
6063-T6	ASTM B 221
6063-T6	AMS4156H

ALLOY/TEMPER	EXTRUSION SPEC
6063-T6511	AMS-QQ-A-200/9
7050-O	5PTM 4L02
7050-O	AMS4340
7050-O	AMS4342
7050-O	DMS2227
7050-O	MMS1422
7050-O1	MMS1422, USI PS21221
7050-T73511	AMS 4341
7050-T73511	MMS1422
7050-T74511	MMS1422, USI PS21221
7050-T74511	DMS2227
7050-T74511	AMS 4342
7050-T76511	AMS 4340
7050-T76511	CMMP014
7050-T76511	DMS2227
7050-T76511	LAC-C04-1410
7050-W511	CMMP014
7055-T74511	AMS 4324
7075-F	AMS-QQ-A-200/11
7075-O	AMS-QQ-A-200/11
7075-O	BMS7-186
7075-T6	AMS-QQ-A-200/11
7075-T6511	AMS-QQ-A-200/11
7075-W511	AMS-QQ-A-200/11
7075-T73	AMS-QQ-A-200/11
7075-T73511	AMS-QQ-A-200/11
7075-T73511	AMS4167
7075-T73511	ASTM B221
7075-T73511	ASN-A6032&NFL15-501
7075-T73511	ASN-A3292
7075-T73511	BMS7-180
7075-T73511	ATMO4-109A
7075-T73511	QQA,USI BAC5439 CLB
7075-T76	AMS-QQ-A-200/15
7075-T76511	AMS-QQ-A-200/15
7150-O	DMS2256
7150-T6511	BMS7-257
7150-T61511	DMS 2256
7150-T77511	AMS4345
7150-T77511	BMS7-306
7150-T73511	ASN-A6033&NFL15-501
7178-O	AMS-QQ-A-200/13
7178-T6	AMS-QQ-A-200/13
7178-T6511	AMS-QQ-A-200/13

ALLOY/TEMPER	ROLL FORM SPEC
2014-T62 ALCLAD	AMS-QQ-A-250/3
2014T3 ALCLAD	AMS-QQ-A-250/3
2014T4 ALCLAD	AMS-QQ-A-250/3
2014T41 ALCLAD	AMS-QQ-A-250/3
2024-O BARE	AMS-QQ-A-250/4
2024-O ALCLAD	AMS-QQ-A-250/5
2024-T3 ALCLAD	AMS-QQ-A-250/5
2024-T3 BARE	AMS-QQ-A-250/4
2024-T4 ALCLAD	AMS-QQ-A-250/5
2024-T42 ALCLAD	AMS-QQ-A-250/5
2024-T42 BARE	AMS-QQ-A-250/4
2024-T62 BARE	AMS-QQ-A-250/4
6061-O BARE	AMS 4025
6061-T4	AMS 4026
6061-T42	AMS 4026
6061-T6 BARE	AMS 4027
6061-T62 BARE	AMS 4027
7075-O ALCLAD	AMS-QQ-A-250/13
7075-O BARE	AMS-QQ-A-250/12
7075-T6 ALCLAD	AMS-QQ-A-250/13
7075-T6 BARE	AMS-QQ-A-250/12
7075-T62 BARE	AMS-QQ-A-250/12
7075-T62 ALCLAD	AMS-QQ-A-250/13
7075-T73 BARE	AMS-QQ-A-250/12
7075-T76 ALCLAD	AMS 4316
301 ANNEALED	AMS 5901
321 ANNEALED	AMS 5510

Future Metals-Aircraft MRO Services and Future Metals assumes no responsibility for the accuracy of any of the information contained herein. This information is supplied solely as a convenience to the user. The information shown is basic. Specification revisions and amendment indicators are not shown. Appropriate sources such as indexes published by specification issuing bodies and/or applicable internationally recognized organizations for standards and measures should be used to determine current issue of individual specifications or standards shown.

ROLL FORMS

NAME	SHAPE
BAC 1489 Angle, Acute and Obtuse, Formed	
BAC 1490 Angle, 90 Degrees, Formed	
BAC 1491 Corrugated Section, Formed	
BAC 1492 Miscellaneous Section, Formed	
BAC 1493 Channel, "U" Section, Formed	
BAC 1494 "C" Section, Formed	
BAC 1495 Channel "C" Section, Miscellaneous	
BAC 1496 Channel, Miscellaneous, Formed	
BAC 1498 Channel, Hat Section, Formed	
BAC 1500 Channel, Flanged, Formed	
BAC 1517 Zee Formed	

EXTRUSIONS

NAME	SHAPE
AND 10133 Angle, Equal Leg, Extruded	
AND 10134 Angle, Unequal Leg, Extruded	
AND 10135 Angle, Bulb, Extruded	
AND 10136 Tee, Extruded	
AND 10137 Channel, Extruded	
AND 10138 & 10139 Zee, Equal Leg, Extruded	
AND 10140 "H" Beam, Extruded	
AND 10141 Tee, Bulb, Extruded	

BAC EXTRUSIONS

NAME	SHAPE
BAC 1501 Tube, Square and Rectangular	
BAC 1503, BAC 1514 Angle, Miscellaneous, Extruded	
BAC 1504 Angle, Bulb, Extruded	
BAC 1513 Filler, Miscellaneous, Extruded	
BAC 1518 "I" and "H", Extruded	
BAC 1505 Tee, Extruded	
BAC 1510 Channel, Miscellaneous, Extruded, Unequal Leg	
BAC 1503 Filler (Solid Bar), Radius, Two End, Extruded	
BAC 1507 Zee, Extruded	
BAC 1519 Folks and Fittings, Extruded	
BAC 1512 Filler Radius, One End, Extruded	
BAC 1506 Tee, Miscellaneous, Extruded	
BAC 1507 & 1508 PI Section, Miscellaneous, Extruded (Double Leg Tee)	
BAC 1509 Channel, Extruded, Equal Leg	

BAC 1520 SEAT TRACKS

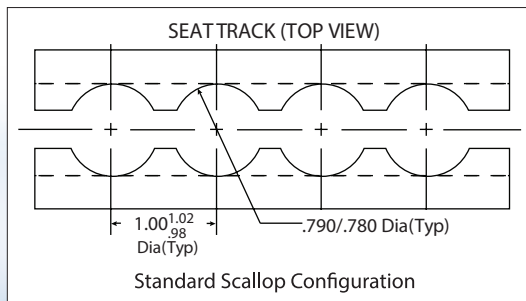
NAME	SHAPE
TYPE 1	
TYPE 2	
TYPE 3	
TYPE 4	
TYPE 5	
TYPE 6	
TYPE 7	
MISC	

AIRBUS SEAT CHART

PART NUMBER	AIRCRAFT APPLICATION
ABS5080A536	for use on A/C type A330/A340
A532-74005	for use on A/C type A300/A310/A330/A340
D530-70011	for use on A/C type A320/A321
ABS5456C628	for use on A/C type A320/A321
ASNA2223	for use on A/C type A320/A321
Offered as scalloped, anodized and primered, painted	

MISCELLANEOUS

SHAPE



FRACTION CHART

	INCHES	MM		INCHES	MM
$\frac{1}{64}$	.015625	.39688	$\frac{33}{64}$	.515625	13.09688
$\frac{1}{32}$	.03125	.79375	$\frac{17}{32}$	.53125	13.49375
$\frac{3}{64}$	.046875	1.19063	$\frac{35}{64}$	.546875	13.89063
$\frac{1}{16}$	.0625	1.58750	$\frac{9}{16}$	.5625	14.28750
$\frac{5}{64}$	.078125	1.98438	$\frac{37}{64}$	.578125	14.68438
$\frac{3}{32}$	.09375	2.38125	$\frac{19}{32}$	.59375	15.08125
$\frac{7}{64}$	.109375	2.77813	$\frac{39}{64}$	.609375	15.47813
$\frac{1}{8}$	.125	3.17500	$\frac{5}{8}$	.625	15.87500
$\frac{9}{64}$	.140625	3.57188	$\frac{41}{64}$	.640625	16.27188
$\frac{5}{32}$	.15625	3.96875	$\frac{21}{32}$	.65625	16.66875
$\frac{11}{64}$	.171875	4.36563	$\frac{43}{64}$	.671875	17.06563
$\frac{3}{16}$	.1875	4.76250	$\frac{11}{16}$	.6875	17.46250
$\frac{13}{64}$	.203125	5.15938	$\frac{45}{64}$	.703125	17.85938
$\frac{7}{32}$	.21875	5.55625	$\frac{23}{32}$	.71875	18.25625
$\frac{15}{64}$	.234375	5.95313	$\frac{47}{64}$	.734375	18.65313
$\frac{1}{4}$	.25	6.35000	$\frac{3}{4}$	.75	19.05000
$\frac{17}{64}$	.265625	6.74688	$\frac{49}{64}$	.765625	19.44688
$\frac{9}{32}$	.28125	7.14375	$\frac{25}{32}$	.78125	19.84375
$\frac{19}{64}$	.296875	7.54063	$\frac{51}{64}$	.796875	20.24063
$\frac{5}{16}$	.3125	7.93750	$\frac{13}{16}$	.8125	20.63750
$\frac{21}{64}$	.328125	8.33438	$\frac{53}{64}$	.828125	21.03438
$\frac{11}{32}$	.34375	8.73125	$\frac{27}{32}$	.84375	21.43125
$\frac{23}{64}$	.359375	9.12813	$\frac{55}{64}$	.859375	21.82813
$\frac{3}{8}$	.375	9.52500	$\frac{7}{8}$	.875	22.22500
$\frac{25}{64}$	.390625	9.92188	$\frac{57}{64}$	.890625	22.62188
$\frac{13}{32}$	.40625	10.31875	$\frac{29}{32}$	.90625	23.01875
$\frac{27}{64}$	.421875	10.71563	$\frac{59}{64}$	.921875	23.41563
$\frac{7}{16}$	.4375	11.11250	$\frac{15}{16}$	.9375	23.81250
$\frac{29}{64}$	.453125	11.50938	$\frac{61}{64}$	.953125	24.20938
$\frac{15}{32}$	.46875	11.90625	$\frac{31}{32}$	.96875	24.60625
$\frac{31}{64}$	.484375	12.30313	$\frac{63}{64}$	.984375	25.00313
$\frac{1}{2}$	.5	12.70000	1	1.	25.40000

WEIGHT FORMULAS & STANDARD GAUGES



WEIGHT FORMULAS

FORMULA FOR WEIGHT

Sheets	=Length X Width X t X w	= lbs per pc
Circles	=.785 X D ² X t X w	= lbs per pc
Rings	=.785 X (D + d) X (D-d) X t X w	= lbs per pc
Round Rods	= D ² X 9.42 X w	= lbs per ft.

D= Outside Diameter in inches

d = Inside Diameter in inches

t = Thickness in inches

w = Pounds per cubic inch

Round Tubing = 37.7 X w X t X (D-t) = lbs per foot

Square Tubing = 48.0 X w X t X (D-t) = lbs per foot

D = Outside Diameter in inches

t = Wall thickness in inches

w = Pounds per cubic inch

DENSITY PER CUBIC INCH

Aluminum	.100
Copper	.323
Brass	.308
Titanium	.262
304 Stainless	.290
Steel	.284
Titanium	.161

LINEAR MEASURE

1 inch	= 2.54 Centimeters
1 Foot	= 30.48 Centimeters
1 Yard	= .9144 Meters
1 Centimeter	= .3937 inches
1 Meter	= 39.37 inches
1 Meter	= 1.0936 Yards

WEIGHTS

1 Pound	= .4536 Kilogram
2.2046 Pounds	= 1 Kilogram

STANDARD GAUGES

GAUGE	US STANDARD GAUGE	STRIP & TUBING
44	0.0047	
43	0.0049	
42	0.0051	
41	0.0053	
40	0.0055	
39	0.0059	
38	0.0063	
37	0.0066	
36	0.0070	0.004
35	0.0078	0.005
34	0.0086	0.007
33	0.0094	0.008
32	0.0102	0.009
31	0.0109	0.010
30	0.0125	0.012
29	0.0141	0.013
28	0.0156	0.014
27	0.0172	0.016
26	0.0188	0.018
25	0.0219	0.020
24	0.0250	0.022
23	0.0281	0.025
22	0.0313	0.028
21	0.0344	0.032
20	0.0375	0.035
19	0.0438	0.042

GAUGE	US STANDARD GAUGE	STRIP & TUBING
18	0.0500	0.049
17	0.0563	0.058
16	0.0625	0.065
15	0.0703	0.072
14	0.0781	0.083
13	0.0938	0.095
12	0.1094	0.109
11	0.1250	0.120
10	0.1406	0.134
9	0.1563	0.148
8	0.1719	0.165
7	0.1875	0.180
6	0.2031	0.203
5	0.2188	0.220
4	0.2344	0.238
3	0.2500	0.259
2	0.2656	0.284
1	0.2813	0.300
1/0 (0)	0.3125	0.340
2/0 (00)	0.3438	0.380
3/0 (000)	0.3750	0.425
4/0 (0000)	0.4063	0.454
5/0 (00000)	0.4375	0.500
6/0 (000000)	0.4688	
7/0 (0000000)	0.5000	

Future Metals-Aircraft MRO Services and Future Metals assumes no responsibility for the accuracy of any of the information contained herein. This information is supplied solely as a convenience to the user. The information shown is basic. Specification revisions and amendment indicators are not shown. Appropriate sources such as indexes published by specification issuing bodies and/or applicable internationally recognized organizations for standards and measures should be used to determine current issue of individual specifications or standards shown.

future metals



Aircraft MRO Services



FLORIDA / INTERNATIONAL DIVISION

Company Headquarters
10401 State Street
Tamarac, FL 33321
(954) 724-1400
(800) 733-0960
(954) 721-5050 FAX

CALIFORNIA DIVISION

16341 Carmenita Road
Cerritos, CA 90703
(562) 926-0401
(800) 733-0963
(562) 404-4906 FAX

NEW ENGLAND DIVISION

22 North Plains Industrial Rd., Suite 6B
Wallingford, CT 06492
(203) 303-7525
(800) 733-0960
(203) 303-7521 FAX

TEXAS DIVISION

3751 New York Ave, Suite 100
Arlington, TX 76014
(817) 472-4224
(800) 733-0961
(817) 472-8867 FAX

OHIO DIVISION

4736 Wadsworth Road
Dayton, OH 45414
(954) 724-1400
(800) 733-0960
(954) 721-5050 FAX

WASHINGTON DIVISION

15022 Puyallup St, Suite 104
Sumner, WA 98390
(253) 826-4444
(800) 733-0964
(253) 826-5443 FAX

EUROPA DIVISION

Sportlaan 1B
4209 AX Schelluinen
The Netherlands
+31(0)88-0025300
+31(0)88-0025310 FAX

SINGAPORE DIVISION

101 Alps Avenue #04-01
Singapore 498793
(65) 65469845
(65) 65469843 FAX

UK DIVISION

Future Metals UK
Libra, Unit C, Maidstone Road
Kingston, Milton Keynes
Buckinghamshire
MK10 0BD
+44 (0) 1908 585034
+44 (0) 1908 5844193 FAX

AOG@futuremetals.com
1-844-AOG-DESK
www.futuremetals.com

