

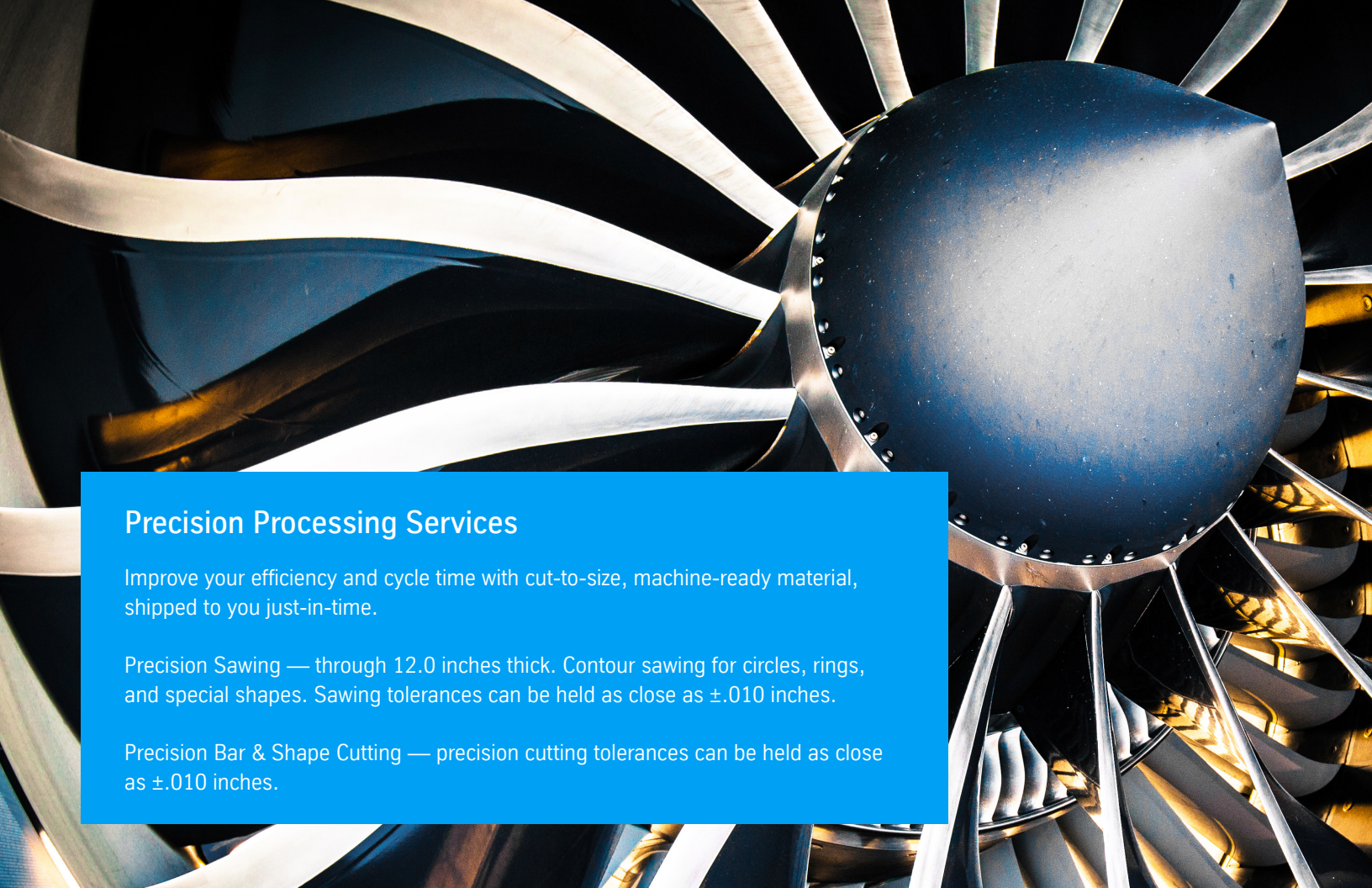
thyssenkrupp Materials NA

Aerospace Industry



thyssenkrupp



A detailed close-up photograph of a jet engine's turbine section. The image shows several curved, polished metal blades radiating from a central hub. The lighting is dramatic, with bright highlights on the leading edges of the blades and deep shadows in the gaps, emphasizing the precision engineering and metallic texture.

Precision Processing Services

Improve your efficiency and cycle time with cut-to-size, machine-ready material, shipped to you just-in-time.

Precision Sawing — through 12.0 inches thick. Contour sawing for circles, rings, and special shapes. Sawing tolerances can be held as close as ± 0.010 inches.

Precision Bar & Shape Cutting — precision cutting tolerances can be held as close as ± 0.010 inches.

Your Partner In Aerospace

thyssenkrupp Materials NA provides inventory, processing, and logistical solutions to improve cycle time and lower costs for aerospace materials users around the world. Our people, our suppliers, warehouse and processing facilities are dedicated to consistently meeting or exceeding expectations.

We provide a full range of aerospace materials including aluminum, brass, bronze, copper, stainless steel and nickel; all are produced and processed to the most stringent of aerospace standards.

You will benefit from our industry-leading information systems along with our wide-ranging fleet of trucks and extensive logistics and distribution expertise.

We supply major airframe manufacturers, large assemblers, airlines, hundreds of aerospace machine shops, and maintenance repair and overhaul

facilities. We are closely aligned with the major aerospace material suppliers across the globe.

As a result of the aerospace industry being global, we have the infrastructure to support customers throughout the world including Europe, Asia, Canada, and South America.

Our orders ship on time! We also have integrated systems that support AOG (aircraft-on-ground) and other short lead-time requirements.

We are focused on working for you to improve service, lower your inventories, reduce work in process and free up your working capital.

At thyssenkrupp Materials NA, we want to be your first choice for aerospace materials and logistical needs experts.



Quality Assurance

At thyssenkrupp Materials NA, all of our aerospace locations operate under a continuously tested system of quality assurance procedures.

We are AS9100 certified and our ISO9001 approvals have provided us with delegated source acceptance status by many major aerospace customers.

Our commitment to meeting and exceeding customer needs is just one of the many reasons major airframe manufacturers and their subcontractors have chosen thyssenkrupp Materials NA as their supplier of choice for quality aerospace materials.

Call the Aerospace Specialists:
+1 (800) 926-2600

**ISO 9001:2015 • AS9100D
CERTIFIED COMPANY**

 **PRI** Certification
PERFORMANCE REVIEW INSTITUTE

Our Value Proposition



Product Offering

Leading supplier globally in Aerospace products

- Aluminium (flat roll, extrusions, forgings)
- Nickel & Cobalt Alloys
- Steel Alloys
- Copper Alloys (Al Bronze, Beryllium)
- Plastics



Value Adding Partnership Approach

Our belief in strong partners creates end to end supply chain visibility

- Subcontractor management and support
- System Integration
- Global Key Account Managers with centralized control towers
- Customer Specific Dedicated facilities
- Demand Aggregation



Our Capabilities

- Cut to size: Water jet, Contour, Plasma
- Bar operations: Grinding, Chamfering
- First Operation CNC Machining
- In housing testing: XRF Gun, Hardness and conductivity



Our Footprint

- 14 AS9100 locations in North America
- Dedicated trucking and logistics network
- 2,000 dedicated Aerospace customers in North America
- Global Aerospace reach with 40+ thyssenkrupp Aerospace Locations in 20 Countries

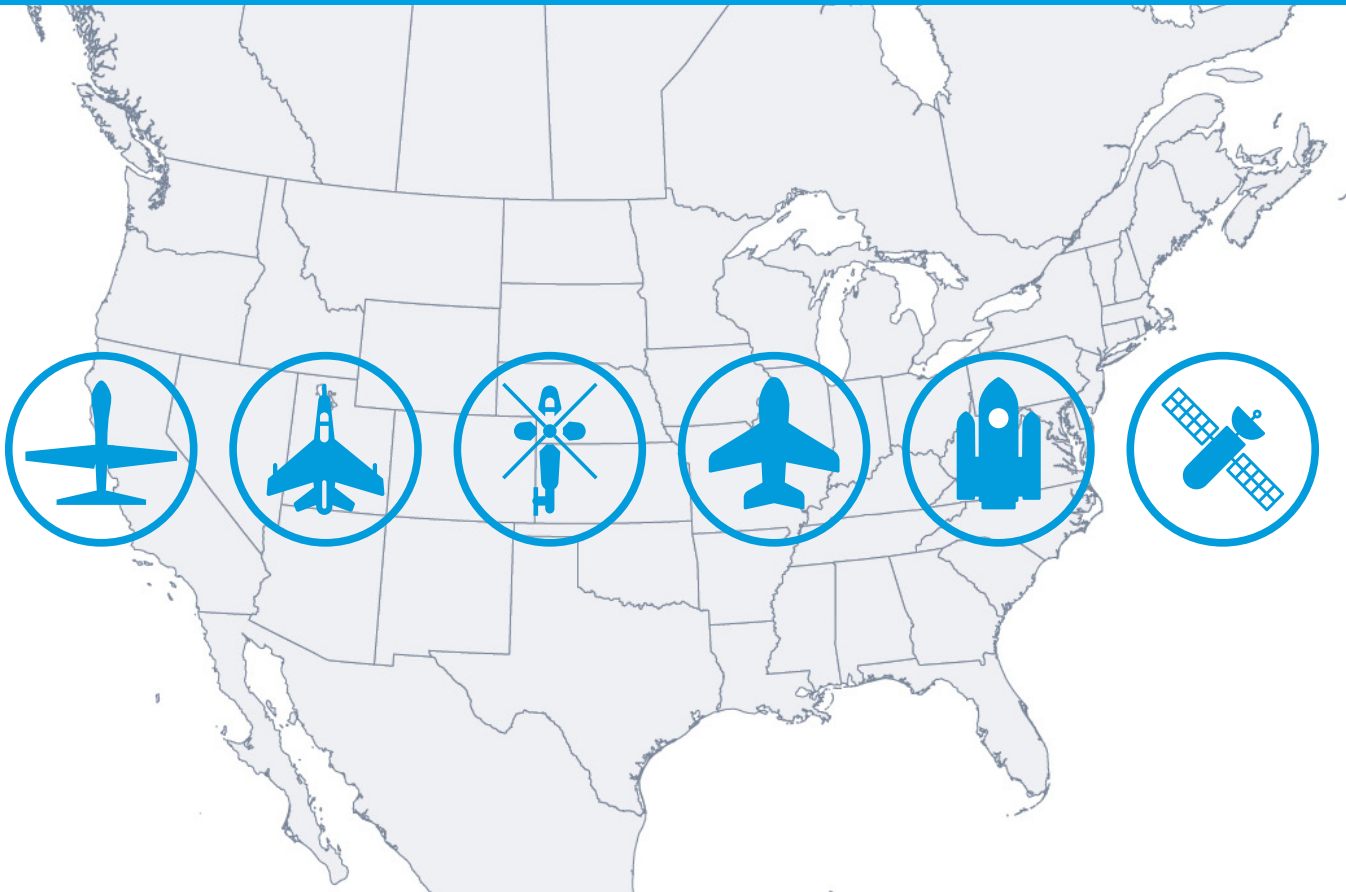


Supply Chain Services

We collaborate to deliver integrated supply chain solutions to increase efficiencies and standardization

- Kitting and Sequencing
- Outside processing management
- 3PLs
- Point of Use
- Export control with dedicated team
- Extensive quality inspection
- Super Market Model
- Storage Services

Our Commitment to Aerospace



thyssenkrupp Materials NA
www.thyssenkrupp-materials-na.com
+1 (800) 926-2600

Stocking distributor, processor, and service provider of aluminum, stainless steel, nickel, red metals and plastics for Aerospace programs in North America.

Additional Divisions Dedicated to Aerospace:



thyssenkrupp Aerospace
www.thyssenkrupp-aerospace.com
(877) 226- 3464

Global Supply Chain Integration Solutions

TMX Aerospace
(877) 226- 3464

Aluminum and Titanium Supply Chain Management for Boeing Commercial



Aerospace Materials

Aluminum

Round Bar

Alloy and Temper	Size Range (inches)	Specifications
2024 - T4/T351	0.1875 - 7.0	AMS 4120, AMS QQ A 225/6
6061 - T6/T651	0.125 - 8.0	AMS 4117, AMS QQ A 225/8
7075 - T6/T651	0.3125 - 8.0	AMS 4123, AMS QQ A 225/9
7075 - T7351	0.750 - 4.0	AMS 4124, AMS QQ A 225/9

Square Bar

Alloy and Temper	Size Range (inches)	Specifications
2024 - T351	0.500 - 4.0	AMS 4120, AMS QQ A 225/6
7075 - T651	1.0 - 3.0	AMS 4123, AMS QQ A 225/9

Hex Bar

Alloy and Temper	Size Range (inches)	Specifications
2024 - T4/T351	0.5625 - 2.25	AMS 4120, AMS QQ A 225/6
7075 - T7351	0.500 - 2.0	AMS 4124, AMS QQ A 225/9

Sheet

Alloy and Temper	Size Range (inches)	Specifications
2024 - O	0.020 - 0.190	Bare: QQ A 250/4, AMS 4035; Alclad: QQ A 250/5, AMS 4040, BAMS 516-010
2024 - T3	0.020 - 0.190	Bare: QQ A 250/4, AMS 4037; Alclad: QQ A 250/5, AMS 4041, ASTM-B209
2219 - O	0.020 - .1599	Bare: AMS 250/30, AMS4031, ASTM-B209
2219 - T	0.020 - .1599	Clad: AMS4094, AMS4095, AMS4096, DMS-1719, BMS7-110, ASTM-B209
6061 - O	0.032 - 0.190	AMS 4025
6061 - T4	0.032 - 0.190	AMS 4026
6061 - T6	0.032 - 0.190	AMS 4027
7075 - O	0.032 - 0.190	Bare: QQ A 250/12, AMS 4044; Alclad: QQ A 250/13, AMS 4048
7075 - T6	0.032 - 0.190	Bare: QQ A 250/12, AMS 4045; Alclad: QQ A 250/13, AMS 4049

All sheet sizes adjusted from 0.190 to .1599 for the thickness

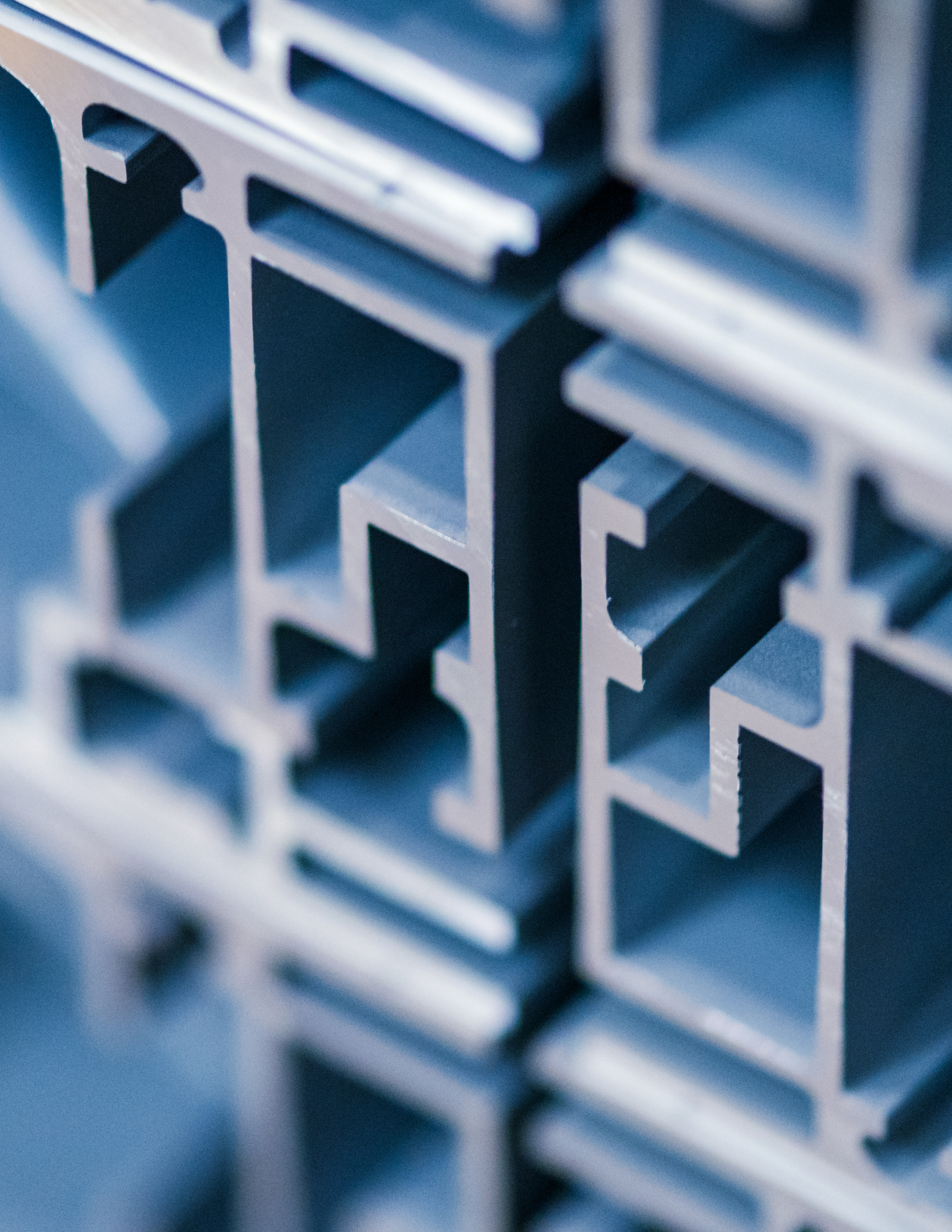
Rectangle Bar

Alloy and Temper	Size Range (inches)	Specifications
2024 - T4/T351	0.250 x 1.0 – 3.0 x 4.0	AMS 4123, AMS QQ A 225/9

Plate

Alloy and Temper	Size Range (inches)	Specifications
2024 - 0	0.25 - 6.0	AMS 4035
2024 - T351	0.25 - 6.0	AMS 4037, GAMPS 9101, CMMP 025, ASTM-B209
2024 - T851	0.25 - 1.499	AMS QQA - 250/4
2050 - T84	0.50 - 6.5	AMS 4413
2124 - T851	1.0 - 6.0	AMS QQA-250/29, AMS 4101, MMS 149, FMS 3002/3008, MMS 1432, ASTM-B209
2195 - T8	0.125 - 0.499	AMS 4474
2195 - T34	0.50 - 2.250	AMS 4472
2219 - T851	0.25 - 6.0	AMS QQA-250/30, AMS 4295, ASTM-B209
2297 - T87	1.50 - 6.0	AMS 4330
6061 - T6	0.25 - 16.0	AMS 4027, ASTM B209
6061 - T651	0.25 - 10.0	AMS 4027, ASTM B209
7040 - T7451	3.01 - 9.0	AMS 4211
7050 - T7451	0.25 - 8.0	AMS 4050, BMS 7-323, Type I,III, CMMP 010, AMS 4201, GAMPS 9101, BAMS 516-003, CMMP 025, DMS 2233, DMS 2459, MMS 1420, MMS 1439, MEP 02-014, LMA-M7050
7075 - T7351	0.25 - 8.0	AMS 4078, CMMP 025, MMS 159, ASTM-B209
7140 - T7451/T7651	4.0 - 10.0	AMS 4401, AMS 4408, BAMS 516-032, BMS7-381 [T7651], BMS7-382 [T7451]
7160 - T7351/T7451/T7651	1.0 - 6.0	AMS 4448, AMS 4432, AMS 4378
7475 - 7351	1.0 - 4.0	AMS 4202, BAMS 516-002, CMMP 025, DMS 2184, MEP 02-013, FMS 3004

*USI certified on selected thicknesses. Additional specifications available from stock.



Aluminum Hard Alloy Shaped Extrusions

Alloy	AMS QQ-A-200	AMS	ASTM	Bell	Boeing	Cessna	Douglas
2014	AMS QQ-A-200/2	AMS 4153	ASTM B221	BPS 4543		CSTI036	DMS 1520
2024	AMS QQ-A-200/3	AMS 4152 AMS 4165 AMS 4423	ASTM B221	BPS 4543		CSTI036	DMS 1520
2099		AMS 4287					
2219		AMS 4162 AMS 4163	ASTM B221	BPS 4543	BMS 7-118		DMS 1520 DMS 2077
6061	AMS QQ-A-200/8	AMS 4161 AMS 4173	ASTM B221				
7049							DMS 1520
7050		AMS 4340 AMS 4341 AMS 4342		BPS 4543	MMS 1422 MMS 1438	CSTI036	DMS 1520 DMS 2227
7075	AMS QQ-A-200/11	AMS 4154 AMS 4317 AMS 4617	ASTM B221	BPS 4543	BMS 7-180 MMS 158	CSTI036	DMS 1520
7136		AMS 4415					
7150		AMS 4345			BMS 7-306		
7175		AMS 4344					DMS 1520
7178	AMS QQ-A-200/13 AMS QQ-A-200/14		ASTM B221				DMS 1520

Aluminum Bronze

Round Bar

Alloy and Temper	Size Range (inches)	Specifications
C62300	0.375 - 6.0	AMS 4635, ASTM-B150
C63000	0.375 - 10.0	AMS 4640, ASTM-B150
C63020	0.750 - 4.0	AMS 4590, ASTM-B150
C64200	0.375 - 6.0	AMS 4634, ASTM-B150

Cast Tube

Alloy and Temper	Size Range (inches)	Specifications
C95510	1.125 – 13.0 OD	AMS 4880, ASTM-B505

Beryllium Copper

Round Bar

Alloy and Temper	Size Range (inches)	Specifications
C172 Condition A, TB00	0.30 - 14.0	AMS 4650, ASTM-B196
C172 Condition H, TD04	0.30 - 3.0	AMS 4651, ASTM-B196
C172 Condition AT, TF00	0.500 - 6.0	AMS 4553, ASTM-B196
C172 Condition HT, TH04	0.250 - 2.75	AMS 4650, ASTM-B196

Round Tube

Alloy and Temper	Size Range (inches)	Specifications
C172 Condition AT	0.75 - 16.0 OD	AMS 4535, ASTM-B643
C172 Condition HT	0.375 - 3.0 OD	AMS 4535, ASTM-B643

Cupronickel

Round Bar

Alloy and Temper	Size Range (inches)	Specifications
ToughMet 3 AT110, C729	0.595 - 9.0 OD	AMS 4596, BMS 7-373
ToughMet 3 TS160, C729	0.125 - 3.753	AMS 4597, BMS 7-373

Stainless Steel

Round Bar

Alloy and Temper	Size Range (inches)	Specifications
13-8	0.75 - 5.0	AMS 5629, ASTM - A564
15-5 PH, Types I and II	0.25 - 12.0	AMS 5659, ASTM - A564
17-4 PH	0.0937 - 12.0	AMS 5643, ASTM - A564

Rectangle Bar

Alloy and Temper	Size Range (inches)	Specifications
17-4 PH	0.125 x 0.750 - 3.0 x 6.0	AMS 5643, ASTM - A564
15-5 PH	0.250 x 3.0 - 0.625 x 6.0	AMS 5669, ASTM - A564

Plate

Alloy and Temper	Size Range (inches)	Specifications
17-4 PH	0.250 - 2.0	AMS 5604, ASTM - A693
15-5 PH	0.500 - 7.0	AMS 5682, ASTM - A693
15-5 PH (Bloom Plate)	1.0 – 9.0 x 4.0 – 18.0	AMS 5682, ASTM - A693

Nickel

Round Bar

Alloy and Temper	Size Range (inches)	Specifications
718	1.0 - 12.0	AMS 5596, AMS 5662, AMS 5663, AMS 5832, ASTM-B637

Plastics

High Performance

DuPont™ Vespel® PEEK Ultem® Torlon® Delrin® Phenolics

Special Solutions for Aircraft

Composite Processing Urethane resin systems and tooling board



thyssenkrupp Materials NA has 19 facilities that are AS9100 and ISO9001 Certified.

California

5450 E. Home Ave.
Fresno, CA 93727

13338 Orden Drive
Santa Fe Springs, CA 90670

Connecticut

5 Sterling Drive
Wallingford, CT 06492

Colorado

3254 Fraser St, Unit B
Aurora, CO 80011

Georgia

1500 Cherokee Parkway, Suite 120
Acworth, GA 30102

Kansas

3001 E 11th Ave.
Hutchinson, KS 67501

Materials Services
thyssenkrupp Materials NA
22355 West Eleven Mile Road
Southfield, MI 48033
P: (800) 926-2600
www.thyssenkrupp-materials-na.com

Illinois

2800 West Higgins Road #550
Hoffman Estates, IL 60169

Indiana

5545 Chet Waggoner Court
South Bend, IN 46628

Michigan

22355 W Eleven Mile Rd
Southfield, MI 48033

New York

1673 Lyell Ave
Rochester, NY 14606

North Dakota

2706 3rd Ave
Jamestown, ND 58401

Ohio

6050 Oak Tree Blvd, Suite 110
Independence, OH 44131

8001 thyssenkrupp Parkway
Northwood, OH 43619

Oregon

701 NE Columbia Blvd, Suite 600
Portland, OR 97211

Texas

3001 Alouette Dr, Suite 100
Grand Prairie, TX 75052

Utah

3450 W California Ave,
Space 200
Salt Lake City, UT 84104

Wisconsin

5250 Ashland Way
Franklin, WI 53123

Québec, Canada

4700 Chemin du Bois-Franc
Saint-Laurent, Québec H4S 1A7

Toronto, Canada

2821 Langstaff Rd.
Concord, ON L4K 5C6

engineering.tomorrow.together.