CMF | METALS

PRODUCT CATALOG · 2026

Aluminum for spinning, fabrication and machining.

Warehouses in Gaffney, SC; Elkhart, IN; and Greenville, MI.

Circle Blanks	6061 · 5052 · 5/16" 1100, 3003, 5052
Sheet & Plate	6061 · 7075 · 2024 · 5083/5086 marine
Tread Plate & Bar	6061-T6 diamond · 7075 · 2024 bar
Extrusions	C channels · 6061-T6 · 6063
Welding Wire	ER5356 · ER5183

What We Do

CMF Metals is a division of Carolina Metal Fabrication. We source metal to your requirements, process it at our own manufacturing facilities when you need value-added work, and deliver it to your plant.

1 · SOURCE

We source metal to your alloy, temper, size and quantity requirements from domestic and overseas mills.

2 · PROCESS

When you need more than raw material, we process it at our manufacturing facilities in South Carolina and Michigan.

3 · SUPPLY

We ship to your plant on scheduled releases, as raw material or as finished parts.

Value-added services

Buy the metal and the processing from one supplier, on one purchase order.

Cut to size

Sheet, plate and bar cut to your dimensions and lengths

Laser cutting

Flat sheet, plate and tube cut to your drawing

CNC machining

Machined parts from plate, bar and blocks

Welding and fabrication

Weldments and assemblies built to print

Locations

Gaffney, SC

Greenville, MI

Elkhart, IN

Circle Blanks

Annealed and tempered aluminum circles cut to your diameter. Die-cut blanks are round with smooth edges, ready for the lathe or the press.

ALLOY	TEMPER	THICKNESS	DIAMETER	BEST FOR
6061	O · T6	.040"–.250"	2"–53"	Higher-strength spun and drawn parts; heat-treatable after forming
5052	O · H32	.020"–.250"	2"–53"	Corrosion-resistant covers, tanks, lighting and marine parts
Heavy gauge	5/16" (.3125") blanks for heavy-wall spinning			
1100	O · H14	.3125"	2"–53"	Tank heads, hoppers and cones; maximum formability
3003	O · H14	.3125"	2"–53"	Heavy spinning with more strength than 1100
5052	O · H32	.3125"	2"–53"	Heavy-wall marine and industrial heads

COMMON GAUGES (INCHES)

.020 .032 .040 .050 .063 .080 .090 .125 .160 .190 .250 .3125

THICKNESS TOLERANCE

±.0008" (±0.02 mm)

DIAMETER TOLERANCE

±.040" (±1 mm)

EDGE

Die-cut, round and smooth to 31.5" diameter; circle-sheared above

CASTING ROUTE

DC or CC material. DC recommended for anodizing and deep draws

Sheet & Plate

Heat-treatable sheet and plate for fabricators and machine shops, plus heavy marine plate for hull and deck work.

ALLOY · TEMPER	FORM	THICKNESS	BEST FOR
6061-T6	Sheet	.032"–.249"	Brackets, enclosures, panels; laser and CNC blanks
6061-T651	Plate	.250"–6.000"	Machined parts, base plates, fixtures, gussets
6061-T651	Block	6.000"–10.000"	Saw-cut blocks for molds, fixtures and large machined parts
7075-T651	Plate	.250"–4.000"	High-strength tooling, molds and machined parts
2024-T351	Plate	.250"–4.000"	High-strength parts that need good fatigue resistance

Marine plate

Heavy plate for boat builders

5083-H116 / H321	Plate	.3125"–2.000"	Hulls, decks, bulkheads, pressure vessels
5086-H116	Plate	.3125"–2.000"	Hulls and marine structures

Class society certification (ABS, DNV, LR) and ASTM B928 corrosion testing available on request.

STANDARD SHEET SIZES (INCHES)

48 × 96 | 48 × 144 | 60 × 120 | 60 × 144 | 72 × 144 | Cut to size

STANDARD

Produced to ASTM B209

SURFACE

Mill finish; PVC film on request

GRADE

Commercial and industrial applications

6061-T6 Tread Plate

Diamond-pattern floor plate with a mill finish. Strong, slip-resistant and built for flat floors, steps and decking.

THICKNESS	APPROX. LB / SQ FT	4 × 8 SHEET, APPROX. LB
.125"	1.9	61
.1875"	2.8	90
.250"	3.7	118
.375"	5.5	176
.500"	7.3	234

SHEET SIZES (INCHES)

48×96 · 48×144 · 60×120 · 60×144

PATTERN

Diamond standard; 5-bar on request

USES

Trailer and truck floors, steps, ramps, decking, toolboxes

FORMING

For flat applications; not recommended for tight bends

High-Strength Bar

ALLOY · TEMPER	FORM	DIAMETER	LENGTH	BEST FOR
7075-T651	Round bar	.500"–8.000"	12 ft	High-strength machined components
2024-T351	Round bar	.500"–6.000"	12 ft	Fatigue-critical machined parts
Forgings	Rings, blocks	To print	—	Large-section parts quoted from your drawing

Cut to length on request. Bar supplied for commercial and industrial applications.

Aluminum Extrusions

We offer various types of C channels in raw, cut-to-length, processed and machined form.

C Channels

CHANNEL TYPE	ALLOY · TEMPER	DEPTH	BEST FOR
Aluminum Association	6061-T6	2"–12"	Trailer frames, crossmembers and structural framing
American Standard	6061-T6	3"–12"	Heavier structural and equipment frames
Custom channel	6063-T5 · T52	To print	Rails, trim, enclosures, and boat and RV components

AVAILABLE FORMS

RAW
Standard mill lengths

CUT TO LENGTH
Cut to your lengths and tolerances

PROCESSED
Punched, drilled, notched and mitered

MACHINED
CNC machined to your drawing

STANDARD
Produced to ASTM B221

FINISH
Mill finish

TOLERANCES
Aluminum Association standards (ANSI H35.2)

OTHER SIZES
Quoted to your drawing

CMF METALS

Aluminum Welding Wire

ALLOY	FORM	DIAMETERS	PACKAGING
ER5356	MIG spool	.030 · .035 · 3/64 · 1/16	1, 16 and 20 lb spools
ER5356	TIG rod	1/16 · 3/32 · 1/8	36" lengths, 10 lb tubes
ER5183	MIG spool	.035 · 3/64 · 1/16	16 and 20 lb spools

ER5356 for general 5XXX and 6061 work; ER5183 for 5083 and 5086 marine plate. Ask for current availability.

Supply Programs

Mill-direct pricing on the material you use every month, delivered on your schedule.

1 · YOUR USAGE

Tell us the alloys, sizes and quantities you buy each month.

2 · PROGRAM PRICING

Sourced from domestic and overseas mills with transparent pricing.

3 · RELEASE SCHEDULE

You place one blanket order, and we set shipments to arrive when you need them.

4 · STEADY SUPPLY

Each release is already on its way before you run low. We adjust as your usage changes.

Quality

Mill test report (MTR) on request
Chemistry and mechanical properties, available for any lot

Lot traceability
Lot number on every bundle and pallet

Pre-shipment inspection
Independent inspection before material ships

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