



extrusions.com

[Our Capabilities](#)

Machining

- **CNC**

- All vertical mills with probing systems and rigid tapping. Tolerances vary with features
- RPMs from 8,000 max to 15,000 max.
- X,Y, Z travels from 28",15",15" up to 145",85",24"
- Thru spindle coolant and full 4th axis capabilities
- Typical tolerances are +/- .010" datum to feature and +/- .005" feature to feature. Can hold tighter depending on feature/design but may also need a wider tolerance due to extrusion.

- **Drill Press**

- Radial arm down to tabletop • Tapping Heads and wide range of hole size capabilities
- Ability to design and build custom pneumatic drill tables

- **Manual Mill**

- Tapping heads, Boring Heads, Manual rotary plate.
- Typical tolerances are +/- .010" datum to feature and +/- .005" feature to feature. Can hold tighter depending on features/design but may also need a wider tolerance due to extrusion.

- **Pem Press**

- Ram force up to 8'000 lbs. Up to 1/2" dia. pem and up to 3/8" thick material.

- **Punch Press**

- Brake and stamping presses from 30 ton up to 225 ton with beds from 12" wide up to 150" wide and 20" deep.

Assembly

- Various levels of assembly. One person work station up to 10 person crew for assembly line. Product dependent. Types of electrical testing/UL requirements.

Finishing

Deburr Equipment

- **Vibro deburr**
 - Wet media vibro with 16" max length and 10" max diameter.
 - Custom 4 head deburr machines
 - Parts from 2.5" in length up to 100" long and 8" tall.
 - Pedestal Grinders/ deburr
 - Single head with various medias
- **Robot**
 - Ability to apply linear grain finish in various grits and profiles up to 8' in length, with repeatable results
- **Timesaver**
 - Ability to brush/sand flat surface parts up to 30" wide x 144" long x 4" thick
 - Various medias available for different grit and finish requirements.

Inspection

- Calipers, micrometers (depth, outside), protractors, height gages, indicators, digital scales, thread gages, plug gages, granite tables, custom go-no go gages
- 8' Faro Inspection Arm with Blue Light Laser
 - Ability to probe and 3D scan complex profiles and shapes.

Cutting

Saws

- **Metal Saw**
 - Max length 264", width 24", height 8", typical tolerances are +/-0.032" down to +/-0.010" can hold tighter depending on design but may also need a wider tolerance due to extrusion
- **Double Mitre Saw**
 - Max length 240", width 4.5", height 4.5" 45-degree to 90-degree Typical tolerances are +/-0.032" down to +/-0.010" can hold tighter depending on design but may also need a wider tolerance due to extrusion.

Packaging

Auxiliary Equipment

- Flex Arms
 - Pneumatic drill/tapping arms, typically used to thread screw bosses/drilled holes

Press Container Capability	Min. Wt./Ft. 6XXX	Max. Wt./Ft. 6XXX	Min. Wt./Ft. 7XXX	Max. Wt./Ft. 7XXX	Circle Size Range (Hollow) 6XXX	Circle Size Range (Solid) 6XXX	Circle Size Range (Solid) 7XXX	Min. Length	Max. Length	6005	6061	6063	6463	7075	TOLERANCE CAPABILITY	
7"	0.25 lbs.	140 lbs.	3 lbs.	45 lbs.	2"-28"	2"-28"	2"-16"	8'	30'	X	X	X	N/A	X	ALUMINUM ASSOCIATION STANDARDS	
9"										X	X	X				X
11"										X	X	X				X
16"			X	X			X			N/A						
20"			X	X			X									
Rectangular 10" x 28"			X	X			X									
7" W	0.2 lbs.	1.25 lbs.	N/A		1"-4.5"	1"-6.9"	N/A	8'	24'	X	X	X	N/A	N/A	ALUMINUM ASSOCIATION STANDARDS	
7" F	0.2 lbs.	2.5 lbs.			1"-6.5"	1"-6.5"		8'	25'	X	X	X				
10" S	0.5 lbs.	12 lbs.			1"-11"	1"-11.5"		8'	30'	X	X	X				
7"	0.125 lbs.	2 lbs.	N/A		1"-6.5"	1"-7"	N/A	8'	25'	X	X	X	N/A	N/A		
8"	0.9 lbs.	4.5 lbs.			1"-7.75"	1"-8"		8'	30'	X	X	X				
8"	0.9 lbs.	4.5 lbs.			1"-7.75"	1"-8"		8'	30'	X	X	X				
*3.5"	0.05 lbs.	1.5 lbs.	N/A				N/A	8'	12'	X	X	X	X	N/A		
7"	0.2 lbs.	2.5 lbs.	N/A		1"-6.5"	1"-6.5"	N/A	8'	25'	X	X	X	N/A	N/A		
8"	0.9 lbs.	4.5 lbs.			1"-7.5"	1"-7.5"		8'	30'	X	X	X				
12"	2 lbs.	39 lbs.			2"-11.5"	2"-11.9"		8'	30'	X	X	X				

*-Minature is less than 3.5

Anodize			
Specification	Max. Length	Min. Length	
MIL-A-8625 Type 1 & 2 Class 1 & 2	28.5'-30'	.5"	
MIL-A-8625 Type 3 Class 1 & 2	13'	.5"	
AA-M"XX"C"XX"A"XXX"	13'	.5"	
Bright Dip Anodize (A)	5'	1"	
Bright Dip Anodize (B)	12'	8"	
Industrial Powder Coat (No Class A)			
Specification	Max. Length	Min. Length	
ALL	10'	.5"	
ALL	30'	.5"	
Electrostatic Wet Paint			
Specification	Max. Length	Min. Length	
Standard Architectural Paint Types	28.5'	6'	
Welding (No High Cosmetic Requirements)			
Specification	MIG	TIG	
A.W.S.Standards	X	X	
Bending / Forming (No High Cosmetic Applications)			
Bend / Form Type			
Stretch	Roll	Rotary Draw	Compression
X	X	X	X



Supplier Capabilities