



Equipment Type	Make	Model	Work Envelope	Other Specs	QTY
Machining					
5-Axis CNC Mill	Zimmermann	FZ37	216" x 135" x 59" Climate Controlled & Enclosed	A = +/- 110 deg C = +/- 360 deg 80 HP 22,000 RPM	1
5-Axis CNC Mill	Zimmermann	FZ33	157" x 118" x 59" Climate Controlled & Enclosed	A = +/- 110 deg C = +/- 360 deg 60 HP 25,000 RPM	1
5-Axis CNC Mill	Zimmermann	FZ32	236" x 118" x 59" Climate Controlled & Enclosed	A = +/- 110 deg C = +/- 360 deg 28 HP 18,000 RPM	1
5 Axis Mill	CMS	Ares 4818	188.9" x 70.8" x 47.2"	B = +/- 120 deg C = +/- 270 deg	1
3-Axis CNC Mill	Kao-Ming	KMC-3000SD	127" x 55" x 27"	25 HP 5,200 RPM	1
3 Axis Mill	Doosan	DNM 6700	51.2" x 26.4" x 24.1"	20 HP 12,000 RPM	1
3 Axis Mill	Doosan	DNM 5700s	41.3" x 22.4" x 20.1"	20 HP 15,000 RPM	1
Manual Mill	Lagun	FTV-2	33" x 16"		1
Manual Mill	Frejoth	VMC-AM-2V	30" x 12.5"		1
Manual Lathe	Acra Turn	1600 GN	16" dia x 40" L		1
Inspection					
Laser Tracker	Leica	Absolute Tracker AT-901 MR	250 ft radius	With T-Probe	1
Laser Scanner	Leica	Absolute Tracker AT960-MR	40m 3D Measurements	With Absolute Scanner AS1	1
Granite Inspection Tables			4' x 8'		2
			2' x 8'		1
			3' x 4'		1
Composites Fabrication					
Autoclave	Erie City Iron Works & Thermal Equipmt. Corp.	132A220	10 ft. dia x 20 ft. L 450F, 100psi	ASC Control System and data logger. Vacuum & TC ports	1
Curing Oven	Binks	BHW 8208-6	8' x 10' x 8'	Programmable Controls and Data logger Vacuum & TC ports	1
Composites Lamination Rooms			20' x 50'	Climate Controlled	1
			13' x 34'		1
CNC Cutting Table	Eastman	Eagle S135	6' x 16'		1
Prepreg Freezers			6,400 cu.ft.		2
Sanding Bench	Torit - Donaldson	DB3000	4' x 6'	Dust Collection	2
Sanding Booth			9' x 20' x 10'	Side Draft	1
Spray Booth			12' x 24' x 10'	Heated, with Side Draft	1
Over-Arm Router	Grizzly Industries	G9981 Parts Trimmer	25" Throat	5 HP - 20,000 RPM Dust Collection	1
Transparencies Production					
Bend and Temper Furnace	Ianua	BTF/1	35" x 59" x 8"	Tempering thickness $\geq 0.16"$	1
Bending Furnace	Glass Robots	MB-FBA 180/290/80-2	72" x 116" x 24"	Dual Wagons	1
3-4 Axis CNC Machining Center	CMS - Brembana	Speed MB 24	149" x 68" x 16"	18 HP 15,000 RPM	1
CNC Glass Scoring Table	Bottero		9.5' x 12'	Pivots from Horizontal to Vertical for glass loading	1
Inspection Room			25' x 12'	Grid board and lighting for glass inspection	1



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Metal Forming					
Roll-Former	Webb	R3L Three-Roll Bender	8' wide, 7" dia. rolls		1
Press Brake / Bump-Former	Betenbender	14-1601	14' wide		1
Metal-Worker / Power hammer	Aircraft Tools	AT-260C	36" throat		1
Metal-Worker / Power hammer	Pullmax	P201	42" throat		1
Metal-Worker / Power hammer	Eckold	Kraftformer KF-665 & KF-653C	24" throat		2 1
Metal-Worker / Power hammer	Eckold	Kraftformer Piccolo KF-314	12" throat		1
English Wheel	Excel		36" throat 57" int. ht.		1
Metal Cutting					
5- Axis Water Jet	OMAX	1530	60" x 114"		1
Plasma Cutter	ESAB				1
Power Shear	Amada	M-3060	10' x 1"		
Band Saws	Do-All	Various Vert. & Horiz.	5' throat 3' throat		3 2
Cold Saw	Haeberle	H315			1
Turret Punch	Rotex	18-0	26" throat		1
Tubing Notcher	Mittler Bros.	9001243			1
Cutting Torches				Oxy-Acetylene	7
Metal Fabrication					
Surface Plates			12' x 20'		3
Fabrication Table	Demmeler - Bluco	3D Welding Table	5' x 10'	with Fixturing Accessories and carts	2
Fabrication Table	various	various	4' x 12' 5' x 8' 4' x 8' 5' x 6'	Hardened steel plate construction	1 1 2 3
Welding					
TIG Welder	Miller	Dynasty 700			1
TIG Welder	Miller	Dynasty 350			1
TIG Welder	Lincoln	Square Wave TIG 355			1
TIG Welder	Lincoln	Square Wave TIG 175			1
TIG Welder	Lincoln	Precision TIG 275			1
TIG Welder	Lincoln	Precision TIG 185			1
MIG Welder	Lincoln	Power MIG 350			1
MIG Welder	Lincoln	Wire-matic 255			8
Spot Welder	Acme	3-12-40	36" throat		1
Materials Handling					
Forklift	Hyster	RC160	16,000 lb. capacity	Natural gas	1
Forklift	Toyota	8FGU32	10,600 lb. capacity	Natural gas	2
Forklift	Toyota	5FG40	9,000 lb. capacity	Natural gas	1
Forklift	Komatsu	FG-30SG1K	4,400 lb. capacity	Natural gas	1
Forklift	Hyster	W30XTC	3,000 lb. capacity	electric	1
Vehicle Mover	Stringo	550	6,600 lb. capacity	electric	1
Paint and Prep					
Paint Booth	Saico	Discovery 12	14' x 27' x 10'	Heated, with Down draft	3
Wet-Sanding Booth			19' x 11.5'	Waste water collection	3
Sanding Booth			19' x 11.5'	Down draft	6