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Equipment List

Our equipment list includes most major equipment utilized by Merrill Fabricators. We also have the industry standard support equipment that would be typical of a company of our size and capabilities, which is not listed below.

If you have any questions, or require further assistance, please call us at (989) 921-4005 or reach us by e-mail at: info-mfab@merrilltg.com

QTY.	Facility
1	400,000 square foot manufacturing facility setting on 9 acres with 4 internal loading docks for receiving of material and shipping of manufactured components. Featuring an unrestricted 140'W x 400'L x 65' High Bay area serviced by a 40/15 ton overhead crane and a 100 (50/50) ton overhead crane, both with a 51'6" hook height. Thirteen (13) overhead doors for ease of material handling. Facility is centrally located in the State of Michigan with access to the US 127 corridors for easy logistics.
Robotic Welding Systems	
QTY.	Machine
1	Custom Robotic Welding Cell Fanuc Long Reach (112") M-710; C/20L Robot interfaced with 2 axis 24,000 lbs. Positioner
1	Custom Robotic Welding Cell Fanuc Long Reach (112") M-710; C/20L Robot interfaced with 2 axis 10,000 lbs. Positioner; On a Custom Rail with 19' x 21' working envelope.
1	Custom Robotic Gantry Welding System 12'x12'x60' welding envelope Equipped with interfaced 4th axis Headstock/Tailstock Positioner Capable of up to .093 wire and 700 Amps continuous Part Weight capacity of up to 100,000 lbs.
1	Custom Robotic Welding Cell Fanuc Long Reach (112") M-710; C/20L Robot interfaced with 2 axis 50,000 lb. welding Positioner, equipped with 1,000 Amp Submerged Arc capabilities
1	Custom Robotic Welding Cell Fanuc Long Reach (112") M-710; C/20L Robot interfaced to 4th axis headstock / tailstock positioner. Part weight capacity up to 25,000 lbs and 12 meters in length. Special tandem torch welding for rail product. Equipped with two 650 Mig welders.

1	Flexible Yakazawa / Motoman Robot with "J" positioner. 24" X 36" X 48" weld envelope. Equipped with Fronius welder.
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Welder Power Sources

QTY.	Machine
29	Miller Delta Weld Model 652, 650 Amp with Dual Wire Feed on Miller Swing Arc Booms
36	Miller Delta Weld Model 452, 450 Amp on Miller Swing Arc Booms
10	Miller Dimension Model 652, 650 Amp on Miller Swing Arc Booms
6	Miller Axxess 450 welders
2	300 Amp Miller Gold Starr "Stick" Welders
1	Miller Trailblazer 275 DC Portable Welder with Miller Swing Arc Boom
1	Miller Maxstar DX200 Inverter Welder
1	Miller Dynasty 350 Inverter Welder
1	Miller Dimension 1000, 1000 Amp Sub Arc Welding System interfaced with a 40' Welding Manipulator
1	Bore Tech Bore Weld Machine attached to a Miller XMT 350 MPA with Miller S-74MPA feeder. Capable of Internal radiuses from 1" to 24"
3	Lincoln Precision TIG - 375 Square Wave Inverter Welders
2	Lincoln Powerwave 655 Robotic 650 Amp Sub Arc Welding Systems with integrated 50,000 lbs. 2 Axis Weld Positioners.
4	Lincoln Flextec 455 MIG welders with LN10 Boom package
10	Lincoln Flextec 650 MIG Welders with LN10 Boom package
1	Lincoln Weldanpower 250 G9 Pro Portable Welder
2	Lincoln Square Wave Tig-355 Inverter Welders
1	Lincoln Power MIG 180C
3	Cobramatic Push-Pull Units setup for aluminum
7	Lincoln Power Wave 455M Inverter Welders with Wire Feed System and attached Chiller System
1	Bore Tech Bore Welding Machine
1	Fronius TransPuls 5000
1	Fronius Synergic 5000
1	Neldweld 4000 Stud Welder
1	Parker Stud Welder

Burning and Shape Cutting

QTY.	Machine
1	ESAB Avenger 1 Gantry Shape Cutter – 15'x 60' (up to 8" thick) High Definition Plasma Capabilities CNC Plasma Contour Beveling Equipped with Oxy Fuel Torches Conventional Plasma Heads and Precision Plasma Heads
1	MG Model 3516 CNC Burning Machine Oxygen/Fuel (12"x16'x31') Plasma (3"x16'x31')
1	Tanaka 6000 watt laser Plate Burner. 12' X 75' Bed. Thickness up to 30 mm for mild steel. Torch and gas options for aluminum and stainless material.
1	Amteck-Ltd. BC 4048-5STP Coping Machine. 60' x 48" Beam.
1	Flow Water Jet Cutting System model #H2O Jet 50
1	Steel Tailor Portable CNC Oxy-Fuel Cutting Machine for Beam and Shape Cutting
2	Victor Line Burners
2	Thermal Dynamics Paxmaster 150XL Hand Plasma Cutters

1	Thermal Dynamics Merlin Pax15XC
20	Hand Torch Sets
Layout and Fabrication	
QTY.	Machine
30	Fabrication / Layout Stations Equipped with Dedicated Lifting Equipment and Precision Ground, Calibrated Layout Tables from 4' x 8' to 18' x 40'
Bending and Straightening	
QTY.	Machine
1	2000 Ton Accupress Press Brake w/ 38' bed (30' between columns.) Four foot side horn for bump forming rings.
1	1000 Ton Williams White Straightening Press (12'x24' work envelope)
1	300 Ton Enerpac Straightening Press
1	100 Ton Enerpac Portable Boom and Stick Bushing / Bearing Installation Press
4	Port -A-Powers from 100 to 250 ton
CNC Machining / Drilling Equipment	
QTY.	Machine
1	Mazak AJV 60/120 with Mazatrol M-32 Controller
1	Mazak AJV 25/405 with Mazatrol M-32 Controller with additional 4 th axis
1	Hawacheon Engine Lathe 12" swing 6' long
1	Bridgeport Knee Mill with Acu-Rite III Controller
1	Bridgeport Proto-Trak Knee Mill
1	Ooya Drill Press, Radial Arm 60"
1	Milwaukee Electro Magnetic Drill Press
1	Hougen, Rota -Broach Electro Magnetic Drilling System
Sawing	
QTY.	Machine
1	Marvel Series 8 High Column
1	Hydro-Mechanical V18-A CNC Vertical Tilt Head Band Saw
Positioners	
QTY.	Machine
1	Aronson Turnstyle w/ 100,000 lb capacity.
1	Aronson Turn Style 24,000 lbs.
1	Worthington Head / Tail Stock 16,000 lbs.
1	Aronson Turnstyle 14,000 lbs.
1	Weldmore Turnstyle 18,000 lbs.
1	Aronson Turnstyle 2,000 lbs.
1	Weldmore Turnstyle 24,000 lbs.
1	Pandjiris Positioner 3,000 lbs.
1	Ransome Positioner 50,000 lbs.
1	Aronson Positioner 50,000 lbs.
1	Ransome Positoner 10,000 lbs.
1	Aronson Turnstyle 2,000 lbs.
1	Aronson Head / Tail Stock 20,000 lbs.
4	Koikke – Aronson Head / Tailstock 25,000 lbs.
1	Aronson Head / Tailstock 45,000 lbs
1	Pandjiris Positioner 10,000 lbs.
1	Worthington Head / Tailstock 10,000 lbs.
1	Aronson Head / Tailstock 20,000 lbs.

1	Pandjiris Head / Tailstock 20,000 lbs.
1	Aronson Positoner 6,000 lbs.
Weld Carriages	
QTY.	Machine
11	Koike, Bug-O Multi-directional Weld Carriages
3	Koike Multi-directional Weaving Weld Carriages
Material Handling	
QTY.	Machine
1	Taylor 100,000 lbs. Lift
1	TCM 17,500 lbs. Lift
1	Cat 15,500 lbs. Lift
1	Kalmar 10,000 lbs. Lift
1	Nissan 8,000 lbs. Lift
1	Nissan 5,000 lbs. Lift
1	Nissan 4,400 lbs. Lift
1	JLG 600SJ 65' Boom Man Lift
1	JLG Pro Fit 324ES 32' Scissor Lift
1	From 15,000 to 100,000 lb capacity
1	1 Ton Stake Truck
4	80,000 lbs. Material Transport Carts
2	48' Tractor Trailers
1	17' 20,000 lbs. Straight Truck
Overhead Cranes / Hoist	
QTY.	Machine
1	Wolverine 100 Ton 50/50 Overhead Crane
1	Zenar 40 / 15 Ton High Bay Overhead Crane with 43' hook height
1	Wolverine 20 Ton Overhead Crane
3	P & H 15 Ton Overhead Crane
1	Wolverine 15-5 Ton Overhead Crane Gantry
1	Stewart 15 Ton Overhead Crane
1	Stewart 10 Ton Overhead Crane
10	Wolverine 10 Ton Overhead Crane
2	Wolverine 5 Ton Overhead Cranes
4	P & H 5 Ton Overhead Cranes
2	Kone 5 Ton Overhead Cranes
1	R & M 5 Ton Overhead Crane
40	2 Ton CM Jib Hoist on 18' Swing Booms
Stress Relief	
QTY.	Machine
1	Jensen Furnace 30,000 lbs. maximum part weight (10'x12'x10' cube size) 4 channel Temperature Monitoring and Recording with print out, 150 to 1300 Degrees (F)
1	VSR-8000 Vibratory Unit
Material Finishing	
QTY.	Machine
1	25'W x 65'L x 18'H Blast Chamber with Clemco 2000 lbs. Pressure Pot attached to an elevator Lift and Cyclone Feeder. Utilizing Shot / Aluminum Oxide media.

1	25'W x 65'L x 18'H Blast Chamber with Clemco 6,000 lbs. Includes vacuum recovery system that separates wire and flux. Utilizes Garnet media.
1	16'W x 16'L x 10'H Blast Chamber with a Clemco 600 lbs. Pressure Pot. Utilizing Glass Bead media for Non-Ferrous material profiling.
1	80'W x 180'L Painting Room with two 10 Ton overhead cranes
1	75'W x 150'L Painting Room
1	Accudraft 12' x 24' down draft heated paint / bake booth with temperatures to 180 degrees
Air Compressors	
QTY.	Machine
1	Ingersol Rand Model #SSR-EPE350-25 350 HP
1	Atlas Copco Model #GA75 100 HP
1	Atlas Copco Model #GA18+ 40 HP
1	Atlas Copco Model #GA30 25 HP
1	Vanair Systems – Dryer
Testing and Validation Equipment	
QTY.	Machine
1	Miller Load Bank for in house Power Source Calibration – tractable to the US Weights and Measures
1	Fischer Engineering Company BT1T bend tester for welder qualifications
1	Parker B300 AC Magnetic Particle yoke
1	Parker DA1500 Portable AC/DC magnetic particle unit
1	Olympus Epoch LTC Ultrasonic testing unit with angle beam and straight beam transducers
1	501 Pencil Hardness Tester
1	Elcometer 319 Top Dew point Meter
1	Mini Gloss Meter
1	Full Kit Cross Hatch Cutter
1	456 Top Dual Coatings Thickness Gauge
1	Orange Peel Visual Standards (ACT Test Panels)
1	Faro Laser Tracker