

## Laser Cutting

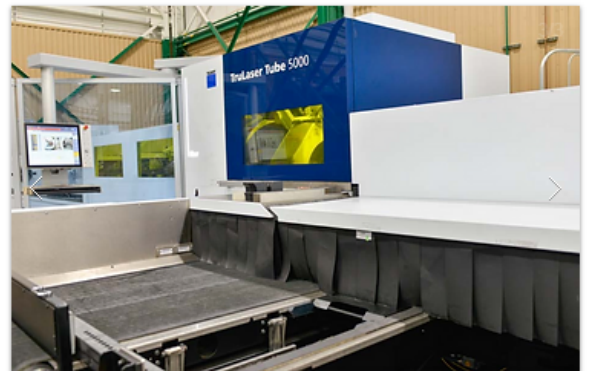
Our high-speed Trumpf fiber lasers cut up to 1.25" thick sheets. Our lasers handle detailed part contours with a superior edge finish without de-burring. Our Trumpf 3060 machines process 96" x 240" material.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
TRUMPF	2030	4K FIBER LASER	1/2" x 60" x 120"
TRUMPF	3030	6K FIBER LASER	5/8" x 60" x 120"
TRUMPF	5030	12K FIBER LASER	1" x 60" x 120"
TRUMPF	5060	12K FIBER LASER	1" x 84" x 240"
TRUMPF	5030	24K FIBER LASER	1.25" x 60" x 120"
TRUMPF	3060	6K FIBER LASER	3/4" x 96" x 240"
TRUMPF	7030	12K FIBER LASER CENTER	1/2" x 60" x 120"

## Tube Laser Cutting

Our tube lasers, Trumpf 5000 & 7000 tubes have 30' foot infeed and 26' outfeed capabilities. We process burnt tubes parts to 10" round and 8" square. We perform high-volume tube laser runs.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
TRUMPF	7000	CAPABILITIES: 10" ROUND , 8" SQ. , 1/2" WALL THK.	30' INFEED ; 236" OUTFEED
TRUMPF	5000	CAPABILITIES: 6" ROUND , 5" SQ. , 3/8" WALL THK.	26' INFEED ; 236" OUTFEED

## CNC Punch Press

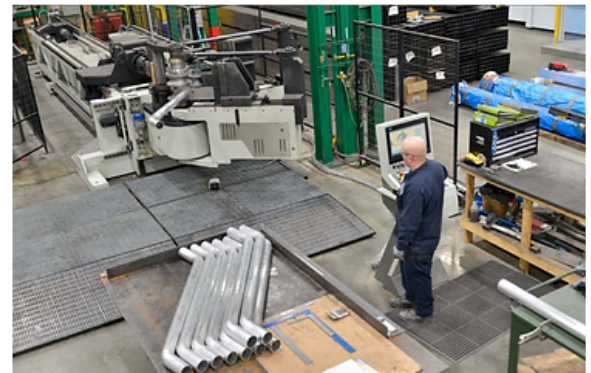
Our Trumpf TruPunch 5000 with SheetMaster automation allows us to process sheet metal parts faster without handling. The large format machine allows us to automate up to 13' long.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
TRUMPF	5000	CNC PUNCH PRESS	1/4" x 60" x 144"
TRUMPF	5000	CNC PUNCH PRESS W/ AUTOMATION	1/4" x 60" x 156"

## Tube Bending

Our Pines #4 Tube Bender was our first tube bender over 25 years ago and we have been bending various shapes and sizes since then. In 2019, we added a BLM Elect 150 6" machine to advanced our tube bending capabilities and enter into new markets.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
PINES	4	NC-TUBE BENDER	4" SCH. 80 MAX
BLM	ELECT 150	CNC TUBE BENDER	6" SCH. 80 MAX

## Welding

Our 15 robotic weld cells offer a wide range of steel and aluminum automation. We are capable of higher volume parts and various size weldments. We design all of our own fixtures in-house and take a part from design to completion faster than other fabricators. Along with Robotic welding, we have 90+ weld stations for steel and aluminum MIG and TIG welding. Weld areas include weld positions and Jib cranes.



MANUFACTURER	MODEL #	DESCRIPTION & PLANT	WORKING RANGE
LINCOLN / FANUC	SYSTEM 50 / 100iC	DUAL SIDE ; SINGLE ARM - 2	UP TO 5'
LINCOLN / FANUC	SYSTEM 20 / 100iC	DUAL SIDE ; SINGLE ARM ; ALUMINUM - 2	UP TO 3'
LINCOLN / FANUC	FAB-PAK / 120iD	SINGLE SIDE ; SINGLE ARM - 3	UP TO 10'
LINCOLN / FANUC	SYSTEM 55 / 120iB	DUAL SIDE ; SINGLE ARM - 3	UP TO 8'
LINCOLN / FANUC	FAB-PAK / 120iD	DROP CENTER ; DUAL SIDE ; 8-AXIS - 7	UP TO 10'
LINCOLN / FANUC	SYSTEM 40 / 100iC	DUAL SIDE ; SINGLE ARM - 4	UP TO 4'
LINCOLN / FANUC	FAB-PAK / 120iD	SINGLE SIDE ; SINGLE ARM ; ALUMINUM - 5	UP TO 10'
LINCOLN / FANUC	FAB-PAK / 100iD	DUAL SIDE ; SINGLE ARM - 6	UP TO 10'
LINCOLN / FANUC	FAB-PAK / 100iD	DUAL SIDE ; SINGLE ARM - 6	UP TO 6'
LINCOLN / FANUC	FAB-PAK / 100iD	DUAL SIDE ; DUAL ARM - 6	UP TO 10'
LINCOLN / FANUC	FAB-PAK / 120iD	SINGLE SIDE ; SINGLE ARM - 7	UP TO 10'
LINCOLN / FANUC	FAB-PAK / 120iD	DROP CENTER ; SINGLE SIDE ; SINGLE ARM - 3	56" X 40" ROTATOR
LINCOLN / FANUC	FAB-PAK / 120iD	SINGLE SIDE ; SINGLE ARM - 2	UP TO 10'
ARTIFLEX	FANUC 100iD	DUAL SIDE ; DUAL ARM - 6	UP TO 4'
LINCOLN	TC-C	SUBMERGED ARC WELDING - 600 AMP DC - 2	UP TO 20'
LINCOLN	LINCOLN AC-DC 1000	SUBMERGED ARC WELDING - AC-DC 1000 AMP - 2	UP TO 20'
GENESIS / FANUC	FANUC 120iB	LARGE ROBOTIC CELL - 3	17 ROTATOR
LINCOLN/MILLER	MANUAL WELDING MIG & TIG	90+ STATIONS	7 PLANTS

## Large Fabrication

Our state-of-the-art equipment gives us a wide range of capabilities to complete your largest project. Check out our collection of large fabrication machines and allow us to build out a custom fabrication process to efficiently produce whatever you need in the shortest amount of time.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
TRUMPF	5060	12K FIBER LASER	1" x 84" x 240"
TRUMPF	3060	6K FIBER LASER	3/4" x 96" x 240"
TRUMPF	7000	CAPABILITIES: 10" ROUND , 8" SQ. , 1/2" WALL THK.	30' INFEED ; 236" OUTFEED
ESAB	AVG XP2 4500	TWIN HEAD PLASMA	1/12" x 13' 6" x 40' 1/12" x 13' 6" x 40'
GENESIS / FANUC	FANUC 120iB	LARGE ROBOTIC CELL	17' ROTATOR
ACCURPRESS	7125024	1250 TON PRESS BRAKE	24'
DENNER	DE 50040	1100 TON TANDEM PRESS BRAKE	26'
BLM	ELECT 150	CNC TUBE BENDER	6" SCH. 80 MAX
MIGHTY VIPER	PRO-3150	57.00" x 122.00"	X 119.98" ; Y 60.94" ; Z 30.24"
MIGHTY VIPER	PRO-3210	80.50" x 124.00"	X 119.59" ; Y 82.20" ; Z 30.22"
DAVI	MCB 3034	14" ROLLS	1" x 10'
HAAS	VF-14/50	40.00" x 150.00" W/ ROTARY	X 150.00" ; Y 40.00" ; Z 30.00"

## Press Brake Bending

Press brakes range from 25 tons to 1250 tons; lengths from 4' to 26'. There are not many projects that we cannot bend. We offer two robotic bend cells to handle higher volume production. Also we can bend up to 26' long on our longest brakes.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
TRUMPF	7036	36 TON PRESS BRAKE	3.3'
TRUMPF	TRUBEND 5170	187 TON PRESS BRAKE	10'
TRUMPF	5170 (ACB)	187 TON PRESS BRAKE	10'
TRUMPF	TRUBEND 5320	320 TON PRESS BRAKE	12'
TRUMPF	ROBOTIC BEND CELL 5000 (5170) BM60	170 TON PRESS BRAKE	12'
TRUMPF	ROBOTIC BEND CELL 5000 (5230) BM150	230 TON PRESS BRAKE	12'
TRUMPF	ROBOTIC BEND CELL 5000 (5320) BM150	320 TON PRESS BREAK	20'
ACCURPRESS	7254	25 TON PRESS BRAKE	4'
ACCURPRESS	7606	60 TON PRESS BRAKE	4'
ACCURPRESS	710012	100 TON PRESS BRAKE	12'
ACCURPRESS	740012	400 TON PRESS BRAKE	12'
ACCURPRESS	740012	400 TON PRESS BRAKE	12'
ACCURPRESS	740012	400 TON PRESS BRAKE	12'
ACCURPRESS	740014	400 TON PRESS BRAKE	14'
ACCURPRESS	775020	750 TON PRESS BRAKE	20'
ACCURPRESS	7125024	1250 TON PRESS BRAKE	24'
DENNER	DE 50040	1100 TON TANDEM PRESS BRAKE	26'

## CNC Mill

We have multiple size CNC vertical mills to do small high volume parts and larger finished machined weldments. We added automation to various machines with pallet pool machines to increase our throughput.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
HAAS	VC-400	DUAL PALLET ; 14.50" x 22.00"	X 22.00" ; Y 16.00" ; Z 20.00"
HAAS	VF-2SSYT	PALLET POOL ; 18.00" X 36.00"	X 30.00" ; Y 20.00" ; Z 20.00"
HAAS	VF-2SSYT	(2) 18.00" x 36.00" PALLETS W/ MIDACO	X 30.00" ; Y 20.00" ; Z 20.00"
HAAS	VF-2SSYT	(2) 18.00" x 36.00" PALLETS W/ MIDACO	X 30.00" ; Y 20.00" ; Z 20.00"
HAAS	VF-3YT	23.00" x 52.00"	X 40.00" ; Y 26.00" ; Z 23.95"
HAAS	VF-5/50XT	(2) 60.00" x 24.00" PALLETS W/ MIDACO	X 60.00" ; Y 26.00" ; Z 25.00"
HAAS	VF-5B/40	23.00 x 52.00	X 50.00" ; Y 26.00" ; Z 23.90"
HAAS	VF-6/50	28.00" x 64.00"	X 64.00" ; Y 32.00" ; Z 30.00"
HAAS	VF-7B/40	28.00" x 84.00"	X 84.00" ; Y 32.00" ; Z 29.19"
HAAS	VF-14/50	40.00" x 150.00" W/ ROTARY	X 150.00" ; Y 40.00" ; Z 30.00"
MIGHTY VIPER	PRO-1000 AG	23.625" x 45.25"	X 39.00" ; Y 23.50" ; Z 24.325"
MIGHTY VIPER	PRO-3150	57.00" x 122.00"	X 119.98" ; Y 60.94" ; Z 30.24"
MIGHTY VIPER	PRO-3210	80.50" x 124.00"	X 119.59" ; Y 82.20" ; Z 30.22"
MAZAK	VCN700D-II	27.625" x 68.50"	X 60.26" ; Y 27.57" ; Z 25.62"
CHEVALIER	QP3560	66.937" x 31.50"	X 60.23" ; Y 35.40" ; Z 30.00"

## CNC Lathe

We offer various turning solutions and size machines. We have to be able to handle the 5 to 10 part runs and the 10,000 part volumes. Our turning automation with robotics and barfeeders / part collectors enables us to produce more



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
HAAS	ST-20Y	MAIN = 2.5" ; SUB = 2.5"	BAR FEEDER
HAAS	ST-30Y	MAIN = 3" ; SUB = 3"	BAR FEEDER
HAAS	DS-30SSY	MAIN = 3.25" ; SUB = 3.25"	BAR FEEDER
HAAS	DS-30Y/SUB	MAIN = 3.25" ; SUB = 3.25"	BAR FEEDER
HAAS	ST-25Y	MAIN = 3.25" ; SUB = 3.25"	BAR FEEDER
HAAS	ST-25Y / ROBOTIC CELL	MAIN = 3.25" ; SUB = 3.25"	ROBOTIC
HAAS	DS-30Y / ROBOTIC CELL	MAIN = 10" ; TAILSTOCK	ROBOTIC
HAAS	ST-25Y/SUB	MAIN = 3.25" ; SUB = 3.25"	BAR FEEDER
MORI SEIKI	NL2500	MAIN = 10" ; SUB = 6"	BAR FEEDER
MORI SEIKI	NL2500/700	MAIN = 10" ; TAILSTOCK	N/A
MAZAK	QTS 350	MAIN = 15" ; TAILSTOCK	N/A

## Metal Spinning

We do metal spinning and can process a blank up to 96" in diameter. Metal spinning is specific to tooling and part geometries. Our engineering team can help bring your part to life.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
LEIFELD	SC255	CNC CONTROLLED SPINNING MACHINE	70" DIAMETER

## Robotic Solutions

We have plasma, machining and grinding robotic solutions. These cells allow us to process parts faster for our customers.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
FANUC	1000iA	ROBOTIC POLISHING / MACHINING CELL	70" DIAMETER
HYPERTHERM / FANUC	HPR260 / 120iC	HYOERTHERM PLASMA TORCH ON 5-AXIS ROBOT ARM	10' HEAD TO TAILSTOCK



## Misc. Equipment

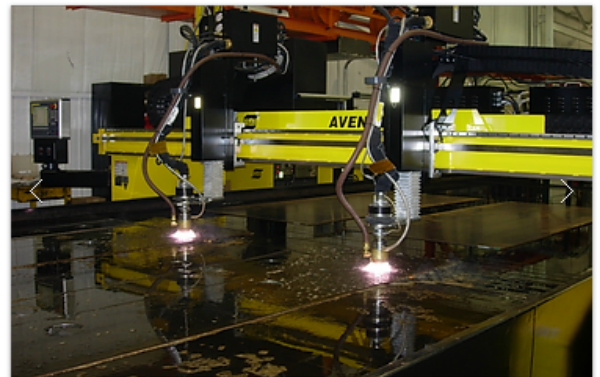
We have a cornerformer and PEM setter that are used in sheet metal parts and sheet metal cabinets.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
METAL FINISH	EDGE MASTER M100	CORNER FORMER	TOOLING SPECIFIC
PEM SERTER	SERIES 2000	PEM SETTING MACHINE	TOOLING SPECIFIC

## CNC Plasma Cutting

Our plasma tables cut thicknesses up to 1.5" plate accurately. Our ESAB Twin Head Plasma table cuts very long parts; table capacity of 1.5" x 13' 6" x 40'.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
KOMATSU	TFP510	300A PLASMA BURN TABLE	1.25" x 60" x 120"
KOMATSU	TFP3062	150A PLASMA BURN TABLE	.75" x 72" x 144"
ESAB	AVG XP2 4500	TWIN HEAD PLASMA	1.5" x 13' 6" x 40'

## CNC OXY-FUEL CUTTING

We oxy-fuel cut up to 2.5" plate then complete secondary options in our machine shop



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
ESAB	PIECEMAKER PLUS	DUAL TORCH TABLE	2.5" x 72" x 144"

## Shear & Roll

If your part has rolling, we can accomplish it. We have the ability to roll larger parts in our 14" Davi Rolls.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
WYSONG & MILES	D-72	6" ROLLS	3/16" x 6'
DAVI	MCB 3034	14" ROLLS	1" x 10'
CINCINNATI	2510	10' SHEAR	3/8" x 10'
ACCUR SHEAR	875016	SHEAR	3/4" x 16'

## Sawing

We process large amounts of raw material for our machine shop and weld departments with various vertical band saws and automated cold saws.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
HEM SAW	V1001LM-2	MANUAL VERTICAL BAND SAW	18" MAX WIDTH
HYD-MECH	VW-18	AUTOMATIC VERTICAL BAND SAW W/ MITER CUTTING	18" MAX WIDTH
TSUNE	TK-80GL	COLD SAW ; BUNDLE LOADER & OUTFEED CONVEYOR	3.25" MAX WIDTH
KASTO	SSHA2	VERTICAL BAND SAW , AUTO LOAD	7" MAX WIDTH
MARVEL MFG.	F2150T52	AUTOMATIC VERTICAL BAND SAW W/ MITER CUTTING	20" MAX WIDTH
MARVEL MFG.	F2150PC3	AUTOMATIC VERTICAL BAND SAW W/ MITER CUTTING	20" MAX WIDTH
PAT MOONEY SAWS	PMI-AUTO2030	AUTOMATIC VERTICAL SAW W/ MITTER CUTTING	18" MAX WIDTH

## Faro

We can check our work. We have a Faro Quantum e Max arm to check parts.



MANUFACTURER	MODEL #	DESCRIPTION	WORKING RANGE
FARO	QUANTUM E MAX	INSPECTION ARM W/ PROBE ; SINGLE POINT = 0.029 mm	4m RADIUS
	FARO BLU xS	FARO LASER SCANNER PROBE (attached to quantum e max)	