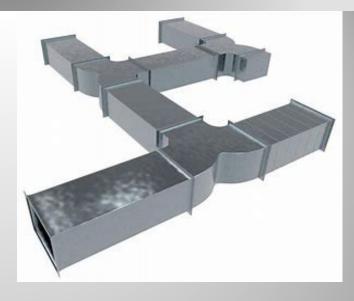


THREE RIVERS MACHINERY CATALOG





Three Rivers Machinery understands just how hard it is to decide what technology is best suited to manufacture your parts. For this very reason we maintain a full inventory of metal fabrication machines, under power, in our demo and technical training center in Alabama and Fort Pierce, FL. Our systems include Conventional Plasma, Precision Plasma, Abrasive Waterjet, Non-Abrasive Waterjet, Oxy-Fuel and Fiber Laser, small i-Fold Coil Lines and automated AutoFold Coil Lines. We invite you to visit and allow us to demonstrate any or all these machines for you. All ACS Plasma, Waterjets and the Fiber-Pro Laser are proudly built in the United States of America! Our coil lines are built in the UK with more than 3,000 in the USA!



Demo and Training Center



1> Fabmaster 510 CNC Retrofit 2> ACS EVOLUTION E-3015B, 3000 watt Fiber Laser 3> JetMaster II Abrasive Waterjet

4> JetPro Non Abrasive Waterjet 5> Hypertherm 50HP Waterjet Pump 6> Hypertherm XHD-300 X-Definition Plasma

7> Precision Fire Combo Plasma/Waterjet 8> RAS 22.81 Seamer 9> 30" Cleat Bender 10> Hypertherm 15HP Waterjet Pump

11> i-Fold Coil Line 12> AutoFold Side Eject Coil Line 13> i-Fold AutoSeam Closer Coil Line 14> Plasma Coil Feed

15> Cutter II 510 Plasma 16> Hypertherm Pro Nest Software Station & AutoDesk Fabrication CamDuct Station

1-800-753-0393

www.sheetmetalmachinery.com

Three Rivers Machinery offers a full line of sheet metal machinery

- 1. Fiber Laser (Shuttle Table with Safety Covers)
- 2. Plasma Cutting Systems
- 3. Waterjets (Non-Abrasive and Abrasive)
- 4. Rotary Insulation Cutting System
- Coil Feeds for Plasma and Laser
- 6. HVAC Coil Lines (Entry to Fully Automated)
- 7. Miscellaneous sheet metal machines





Fabrication CAMduct software ties all these machines together!













FIBERPRO-510 FIBER LASER Cutting System

FIBERPRO-510 CNC FIBER LASER CUTTING SYSTEM MADE IN THE USA



FP-510 Laser Cutting Machine

- 5ft x 10ft effective cutting area with 6-inch gap around cutting area for easy plate alignment
- Space saving design with compact, shielded housing
- Maximum Speed 2500 Inches Per Minute
- Helical Rack & Pinion Dual Side Drive
- 1.5 KW Amp Servo Drives
- Class 1 Laser Safety Enclosure
- · Two internal cameras w/ dual monitors
- Roll Around Control Stand
- Dual Manual Shuttle Tables
- Laser Coil Feed with Hydraulic Shear and 2ea 10,000 Capacity Coil Mandrels mounted on a 2N1 I Beam Holder
- SPI 2000 Watt, 3000 Watt and 4000 watt Fiber Laser offered

Now with

Traverse Speed of 4,500 IPM

Cut speeds of 2,500 IPM



A <u>5 - Year Lease</u> on the FiberPro Laser with Laser Coil Feed works out to \$33.23 per hour, based on 52 weeks a year and 40 hours a week.

Most laser shops charge a minimum of \$100 per hour for job shop cutting and as much as \$250 per hour, depending on the local competition. If you are currently cutting HVAC fittings on a Plasma machine the cut speed is going to be somewhere around 350 to 400 IPM per minute in 24 gauge.

This laser <u>can cut 24ga at speeds over 2,500 IPM</u> (5 times faster than plasma) with a perfect edge. When you compare the parts cut per hour, the cost per foot on the Fiber Laser is a fraction of that on a plasma.

Duct-Pro Plasma Cutting System



- ✓ 5' x 10' Cutting Area, Single Piece, Unitized Design.
- ✓ Dual Side Rack & Pinion Drive with Helical Rack (3 Motors). (NO BELTS)
- **✓** Planetary Gear Boxes
- **✓** ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Hypertherm Powermax 45xd Plasma
- ✓ Floating Head
- ✓ AutoDesk Fabrication CAMduct Software with all fittings and nesting
- **✓** Office Computer with Printer
- **✓** Onsite Installation and Training including all travel and labor expenses
- ✓ MADE IN THE USA!
- ✓ Free Phone, Fax, Email support to the original owner for the lifetime of the machine.



Down Draft Cutting Table divided into 2 Zones. Slat Holders are designed in 2 sections so you can turn the slats to run the width of the table or the length of the table.

Dual Side Drive (3 Motors); 2ea Y-Axis and 1ea X-Axis. Planetary Gear Boxes (3); 2ea Y-Axis and 1ea X-Axis. Linear Guides and Bearings on both Y-Axis and X-Axis. Helical Rack and Pinion on both Y-Axis and X-Axis (No BELTS).



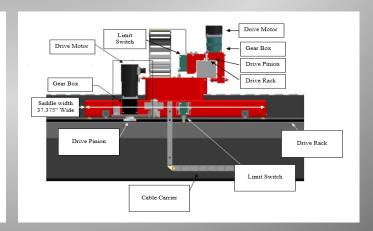
Cutter II Plasma Cutting System



Cutting Table Features:

- ✓ 5' x 10', 5' x 12', 6' x 10, 6' x 12' Cutting Area, Single Piece, Unitized Design
- ✓ Direct Drive Rack & Pinion (NO BELTS)
- ✓ Extra Wide Drive Side Saddle adding stability to long axis cutting
- ✓ Planetary Gear Boxes
- ✓ ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Hypertherm Powermax45 XP Plasma with Floating Head
- ✓ AutoDesk Fabrication CAMduct Software with all fittings and nesting
- **✓** Office Computer with Printer
- ✓ Onsite Installation and Training including all travel and labor expenses
- ✓ MADE IN THE USA!
- ✓ Free Phone, Email & Remote Support to the original owner for the lifetime of the machine

Cutter II Series					
	510	512	610	612	
Effective Cutting Area in feet	5 x 10	5 x 12	6 x 10	6 x 12	
Effective Cutting Width	60 In	60 In	72 In	72 In	
Effective Cutting Length	120 In	144 In	120 In	144 In	
Rapid Traverse Speed	$1400 \mathrm{IPM}$	1400 IPM	1400 IPM	1400 IPM	
Machine Width	83 In	83 In	95 In	95 In	
Machine Length	191 In	215 In	191 In	215 In	
Machine Voltage	115 VAC @ 15 AMPS				
Table Height	Adjustable 30 to 32 inch				
Standard Table Type	Down Draft				
Optional (recommended for thick cutting)	Water Table Insert				
CNC Controller	ACS CNC Drive System				
Drive System	2 Axis , Motor on the X and Motor on the Y				
Torch Height Control	Floating Head is Standard				
Optional Torch Height Control					
Recommended for over 10ga)	Automatic THC with Crash Guard and Laser				
Standard Plasma	Powermax 45 xd				
Optional Plasma	PM 65	PM 85	PM 105	PM 125/ MaxPro 200	
Insulaiton Cutting Option	Combo Plasma / Rotary Cutting Head				



Cutter Plus (Combo) Plasma and Insulation Cutting System





Cutting Table Features:

- ✓ 5' x 10', 5' x 12', 5' x 20', 5' x 24', 6' x 10, 6' x 12', 6' x 20', 6' x 24' Cutting Area, Single Piece, Unitized Design
- ✓ Direct Drive Rack & Pinion (NO BELTS)
- ✓ Combo Head (Plasma and Rotary Insulation)
- ✓ Extra Wide Drive Side Saddle adding stability to long axis cutting
- ✓ Planetary Gear Boxes
- ✓ ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Hypertherm Powermax45 XP Plasma with Floating Head
- ✓ AutoDesk Fabrication CAMduct Software with all fittings and nesting
- ✓ Office Computer with Printer
- ✓ Onsite Installation and Training including all travel and labor expenses
- ✓ MADE IN THE USA!
- ✓ Free Phone, Email & Remote Support to the original owner for the lifetime of the machine
- **✓ Optional Zoned Down Draft Table with Dampers**
- ✓ Optional Dual Plasma, one with Floating Head and one with Automatic Torch Height



Precision Plasma (Unitized Frame)



Precision Fire

Offered in 5 x 10, 5 x 12, 5 x 20 & 5 x 24 6 x 10, 6 x 12, 6 x 20 & 6 x 24

Water Table

Standard Plasma XPR 170

Optional XPR 300

Dual Plasma Option





Precision Master

Offered in

5 x 10, 5 x 12, 5 x 20 & 5 x 24

6 x 10, 6 x 12, 6 x 20 & 6 x 24

8 x 12 & 8 x 24

Down Draft or Water Table

Standard Plasma XPR 170

Optional XPR 300

Dual Plasma Option



Plate Fab

Offered in

5 x 10, 5 x 12, 6 x 10 & 6 x 12 Down Draft or Water Table

Optional Oxy-Fuel

Hypertherm Plasma

powermax series



powermax65- Production Pierce 1/2" Mild Steel powermax85- Production Pierce 5/8" Mild Steel

powermax 105 - Production Pierce 3/4" Mild Steel

powermax 125 - Production Pierce 1" Mild Steel

MAX(2:10)200°

Production Pierce 1" Mild Steel Liquid Cooled Torch







Mujiertherm xpr sod

Standard Core™ console

- Mild Steel O²/Air
- SS & AL Allows N²/N² process
- Production Pierce:
 1¾" Mild Steel
 1¼" Stainless Steel

Hypertherm® XPR 300

Redefining what plasma can do.



Optional Gas Console Boxes

Vented Water Injection™

- SS & AL H²O/N² Process
- SS & AL F5 Gas Process
- AR Argon marking, Argon Pierce Assist
- Production Pierce:
 2" Mild Steel
 1½" Stainless Steel

OptiMix™ console

- Multi Gas Process
- Includes all core and WI processes.
- Production Pierce:
 2" Mild Steel
 1½" Stainless Steel



Jet Pro (Non-Abrasive) Waterjet Cutting System



- ✓ 5' x 10' Cutting Area, Single Piece, Unitized Design
- ✓ ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Hypertherm <u>15 HP-P</u> High Pressure Pump,

60,000 PSI Pump with Air-Over-Oil Cooling Option

- ✓ Welded & Sealed Table Adaptable to Light Abrasive Cutting
- ✓ Direct Motor/Planetary Gear/Rack & Pinion Drives (no belts)
- ✓ Solid Cutting Table Surface of Laminated "HDPE" Fluted Blocks (Waterjet bricks)
- ✓ Sealed Cutting Table with Bottom Rear Drain
- ✓ Control Pedestal at front-left for CNC Controller
- ✓ Maximum Traverse/Cutting Speed: 1,000 Inches Per Minute



Jet Liner II (Non-Abrasive) Waterjet Cutting System



- ✓ 5' x 10', 5' x 12', 5' x 20', 6' x 10', 6' x 12', 6' x 20' Cutting Area, Single Piece, Unitized Design
- ✓ ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Hypertherm <u>15 HP-P</u> High Pressure Pump,

60,000 PSI Pump with Air-Over-Oil Cooling Option

- ✓ Welded & Sealed Table Adaptable to Light Abrasive Cutting
- ✓ Direct Motor/Planetary Gear/Rack & Pinion Drives (no belts)
- ✓ Solid Cutting Table Surface of Laminated "HDPE" Fluted Blocks (Waterjet bricks)
- ✓ Sealed Cutting Table with Bottom Rear Drain
- ✓ Control Pedestal at front-left for CNC Controller
- ✓ Maximum Traverse/Cutting Speed: 1,000 Inches Per Minute



Jet Pro-HD (Abrasive) Waterjet Cutting System



- ✓ 5' x 10' Cutting Area, Single Piece, Unitized Design
- ✓ ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Hypertherm <u>50 HP-P</u> High Pressure Pump,

60,000 PSI Pump with Air-Over-Oil Cooling Option

- ✓ Deep Welded & Sealed Table
- ✓ Direct Motor/Planetary Gear/Rack & Pinion Drives (no belts)
- ✓ Solid Cutting Table Surface of Laminated "HDPE" Fluted Blocks (Waterjet bricks)
- ✓ Sealed Cutting Table with Bottom Rear Drain
- ✓ Control Pedestal at front-left for CNC Controller
- ✓ Maximum Traverse/Cutting Speed: 1,000 Inches Per Minute
- ✓ Abrasive Cutting Head with Mini Hopper
- ✓ Abrasive Hopper (800 Lb. capacity)







60,000 PSI High Pressure Waterjet Pumps

Hypertherm

HyPrecision™ Predictive Waterjet pumps

Improving productivity through prediction







Pump model number		HyPrecision P-15			HyPrecision P-30			HyPrecision P-50		
Hz		50	60		50	60		50	60	
1	Maximum output: gpm (lpm)	0.30 (1.14)			0.60 (2.27)			1.0 (3.79)		
	Maximum orifice: inch (mm)	0.007 (0.18)			0.011 (0.28)			0.014 (0.35)		
GENERAL	Output pressure	Adjustable to 60,000 psi (4100 bar)								
5	Pressure control	Closed loop proportional pressure control – standard equipment								
	Bleed down valve	Air-actuated								
PUMP POWER	Motor power: HP (kW)	15 (11)			30 (22)			50 (37)		
	Voltage	400	208-230	460	400	208-230	460	400	208-230	460
	Full load amps	24.9	45.8-41.6	20.8	46.9	84.9-77	38.5	73.8	138.2-125.8	61.9
	Main breaker (amps)	25	50	25	50	200	50	80	150	80
	Motor starter (options if more than 1 listed)	Across-line			Soft Start	Across-line	Soft Start or Across-line	Soft Start	Wye Delta	Soft Start or Wye Delta
IA1 RES	Seal Maintenance Technology	Included as standard equipment								
SPECIAL FEATURES	Closed loop proportional pressure control	Included as standard equipment								

	Power		Max. Output	
	HP	Max. Continuos Output	Flow	Max. Orifice Size
Model	(kW)	Pressure psi (bar)	GPM (L/min)	in (mm)
	15			
15	(11.2)	60k (4137)	0.3 (1.14)	0.007 (0.18)
	30			
30	(22)	60k (4137)	0.6 (2.3)	0.011 (0.28)
	50			
50	(37)	60k (4137)	1 (3.8)	0.014 (0.35)

Roto Pro Rotary Insulation Cutting System





- ✓ 5' x 10' Cutting Area, Single Piece, Unitized Design.
- ✓ Dual Side Rack & Pinion Drive with Helical Rack (3 Motors). (NO BELTS)
- ✓ Planetary Gear Boxes
- ✓ Rotary Cutting Head with Astroturf bed
- ✓ ACS V8-P CNC Color Graphic Controller with Motors and Drives
- ✓ Onsite Installation and Training including all travel and labor expenses
- ✓ MADE IN THE USA!
- **✓** Free Phone, Fax, Email support to the original owner for the lifetime of the machine.

Plasma Coil Feed Systems



This useful system eliminates the need to stock and handle flat sheet for use with plasma cutters, increasing floor space and efficiency. No need to put on a 10-foot standard sheet to cut 6 feet of material anymore, so the scrap savings coupled with the coil storage are easy to see.

All plasma feeds come with a leveler capacity up to 16g as standard and <u>optional</u> beading capacity up to 20g, so that beaded or un-beaded flat sheets can be fed directly onto the plasma table from coiled stock.

A simple forward/reverse Hand Control feeds the material and the plasma software "rip cut" function cuts it at the required length.

Coil holders come in various options depending on the loading and handling systems used. The plasma feed can be supplied with up to 6 coil holders, all of which have a capacity of 6 metric tons or 12,000 pounds as standard.







Laser Coil Feed Systems



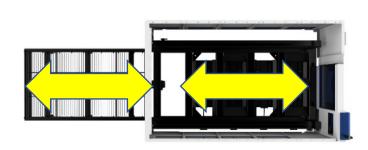
Like the Plasma Coil Feed the Laser Coil Feed eliminates the need to stock and handle flat sheet for use with Laser cutters, increasing floor space and efficiency. No need to put on a 10-foot standard sheet to cut 6 feet of material anymore, so the scrap savings coupled with the coil storage are easy to see.

The Laser Coil Feed comes with a Hydraulic Shear as standard allowing you to feed sheets onto a Laser Shuttle Table. All Laser feeds come with a leveler capacity up to 16g and <u>optional</u> beading capacity up to 20g, so that beaded or un-beaded flat sheets can be fed directly onto the laser table from coiled stock.

The Hand Control allows you to advance the material, retract the material or shear the material through the push of a button.

Coil holders come in various options depending on the loading and handling systems used. The Laser Feed can be supplied with up to 6 coil holders, all of which have a capacity of 6 metric tons or 12,000 pounds as standard.





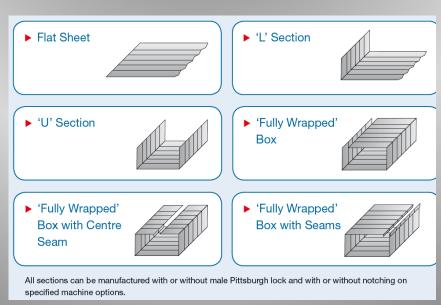
Metal feeds onto the Shuttle Table and is then sheared off, One shuttle table shuttles into the fully enclosed cutting area to be processed and the other shuttle table is pulled out for unloading and reloading.

i-Fold HVAC Coil Line



- ✓ 5ft. x 16-gauge mild steel capacity.
- ✓ Internal self-contained hydraulic system, no pneumatics; One power drop
- ✓ Space requirements: 6'6" x 14'6", (Including 2-in-1 I-Beam Coil Holder)
- ✓ 1ea 2-in-1 10,000 lb. "I" Beam Coil Holder
- ✓ Power Coil Drive Assembly now standard
- ✓ 2ea Expanding Coil Mandrels
- ✓ Seven (7) Station All Gear Driven Leveling Rolls:
- ✓ 2ea V and 2ea Corner Notching Units for S&D and TDF/C
- ✓ One 5ft. x 16ga Hydraulic Shear. One 5ft. x 16ga Hydraulic Folder.
- ✓ Minimum fully wrapped duct section is 6in x 6in.

 The maximum size is only limited by your material handling capability.
- ✓ One Windows® PC Based Control with 14" Touch Screen Monitor
- ✓ Installation and Training



i-Fold Side Eject HVAC Coil Line



- ✓ 5ft. x 16-gauge mild steel capacity.
- ✓ Internal self-contained hydraulic system, no pneumatics. One power drop
- ✓ Space Requirements: 6'6" x 14'6", (including 2-in-1 I-Beam Coil Holder)
- ✓ 1ea 2-in-1 10,000 lb. "I" Beam Coil Holder
- ✓ Power Coil Drive Assembly now standard
- ✓ 2ea Expanding Coil Mandrels
- ✓ Seven (7) Station All Gear Driven Leveling Rolls:
- ✓ 2ea V and 2ea Corner Notching Units for S&D and TDF/C
- ✓ One 5ft. x 16ga Hydraulic Shear, one 5ft. x 16ga Hydraulic Folder,
- ✓ Minimum fully wrapped duct section is 6in x 6in,

 The maximum size is only limited by your material handling capability.
- ✓ One Windows® PC Based Control with 14" Touch Screen Monitor
- ✓ Installation and Training
- ✓ Choice of one Side Eject Roll Former: Female Pittsburgh

Female Snap Lock

Male Snap Lock

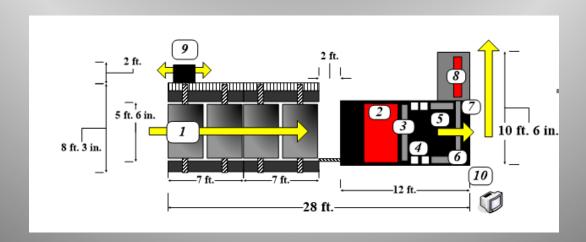
AutoFold Side Eject Expandable HVAC Coil Line



The AUTOFOLD AF-516 SEE Duct Fabricating Coil Line offers the ability to produce 48" to 60" wide "L", "U", or "Full Wrapped" pieces of duct with your choice of Pittsburgh or Snap-Lock Male and female seams depending on the options purchased. "L" sections of duct with both seams are produced approximately every 35 seconds, depending on duct size. Sheared blanks are produced in 48" to 60" widths with and without beading. The AUTOFOLD AF-516 SEE is expandable to a fully automated coil line with transfer tables feeding into the FABRI-FLANGE System!

Programming is done at the Touchscreen Windows© based PC Control with State-Of-The-Art Flash Memory Hard Drive and remote-control box. The PC Control allows single data input for all line functions. The control offers new graphics, system diagnostics, remote input and optional <u>Virtual Wireless Serviceability!</u>

The small footprint along with the Heavy-Duty all gear driven construction makes the Advance Cutting Systems' AUTOFOLD Coil Lines the choice of today's metal fabricator!



AutoFold Side Eject Expandable

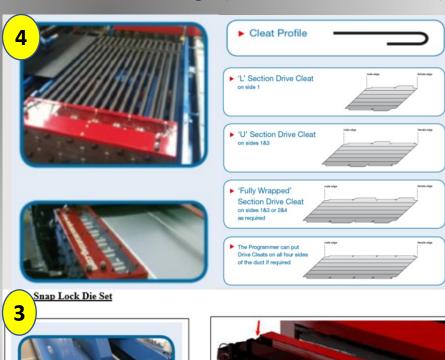
The AF 516 SEE can be configured with a multitude of options to meet your manufacturing requirements.

- 1. Additional Coil Stations
- 2. Coil Selector Station (4 or 6 coil)
- 3. Male Snap Lock Die Punch
- 4. Dual Head Drive Cleat Rollformer
- 5. Tie Rod Punch
- 6. Side Eject Rollformer:
- ✓ Female Pittsburgh (Large, Small or both)
- √ Female Snap Lock
- ✓ Automatic Hydraulic Change over of these 2 rollformers through the controller
- 7. Automatic Transfer tables to Fabri Flange (Dual TDFC Rollformer)







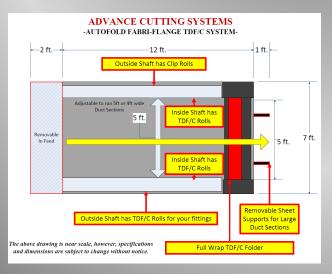


Fabri Flange Dual Head TDF/C Rollformer

With Full Wrap Folder,
Outboard TDFC Fitting Rollformer and
Outboard Clip Rollformer

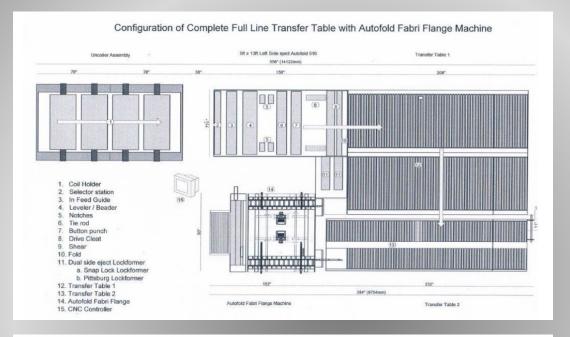


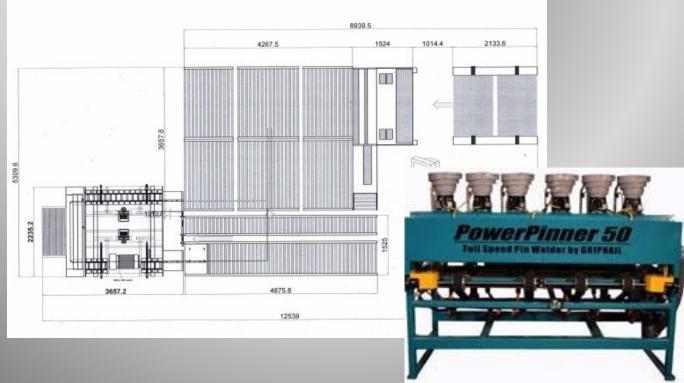
The Patent Pending AUTOFOLD Fabri-Flange TDF/C System takes a seamed flat L, U or Full Wrap and rollforms the TDF/C flange onto both sides of the duct and brakes the duct to size into the desired L, U or Full Wrap piece! In addition, you can use the Fabri-Flange to rollform your TDF/C Fittings and make your Clip for all your duct and fittings!!





Automated AutoFold HVAC Coil Line Can be configured as a U or Z

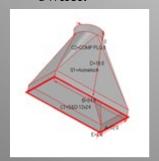


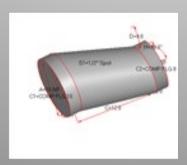


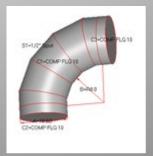
Software AUTODESK.

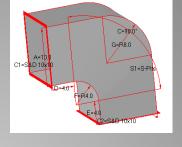
AutoDesk Fabrication CAMduct Software

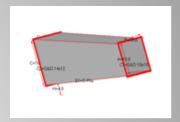
- An AutoDesk Company
- Rectangular Fitting Libraries
- Circular Fitting Libraries
- Oval Fitting Libraries
- Bought Out Fitting Libraries
- Standard Shape Library
- AutoNest
- Manual Nest
- Opus-5 CAD 2-D Drawing Package
- Oversize Part Breakdown Program
- Management Reports
- Add Hole in Fittings
- Perpetual License no yearly subscription req'd.
- Internet Help
- First-Year Software Updates Included.
- FREE phone, fax & internet support for the lifetime of the machine, to the original owner.

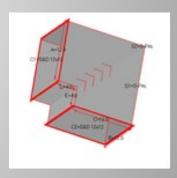


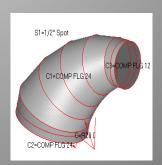










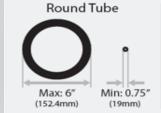


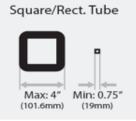
Tube Cutting Plasma

Dragon A400 Plasma Tube and Pipe Cutting System





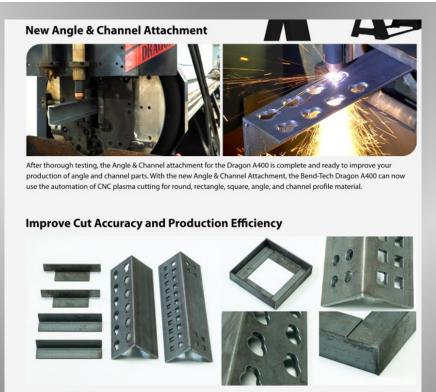






Material Capacity





Three Rivers Machinery







TRM offers a full line of sheet metal machinery for the HVAC mechanical duct fabricator, Roofer or Sign Shop. CNC Folders, Shears, Rollformers, Handbrakes, Sliprolls, Notchers, Pinspotters, Beaders, Snaplocks, Pittsburghs, Triplex, TDC/TDF/TDX, Beaders, Hand Tools and more.



THREE RIVERS Fabrication Machinery

TRM offers a full line of machinery for the Job Shop Fabricator, Sign Shop, Roofer & Mechanical Contractor.

- Ironworkers
- Rollformer
- Press Brakes
- Coil Lines
- Shears
- Clinching Machines
- Rolls
- Lasers
- Bandsaws
- Plasma Cutter
- Structural Steel Beam Lines
- (Single and Multi Spindle)
- WaterJets
- Tube Benders





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CONTACTS

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www.SheetMetalMachinery.com



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