



FOX MACHINERY ASSOCIATES
2021-2022

For All Your Metal Fabricating Machinery & Tooling Needs



A Leader in Metal Fabrication Equipment, Service, Parts & Tooling for over 50 years.

For over 50 years, we have been recognized as the leading source of metal fabrication machinery, tooling, parts, and service. Our Sales Engineers, with over 200 years of cumulative experience, offer services in Pennsylvania, New Jersey, New York, Delaware, Maryland, and West Virginia. Fox Machinery is committed to finding solutions to your fabricating needs by being a “World Class Supplier” that operates with integrity.

The mission at Fox Machinery is to be your “Solutions Partner” and to add value to every interaction. We accomplish this by:

- providing consulting and application engineering services
- representing a variety of state-of-the-art machinery, tools, and automation
- keeping our customers abreast on the latest technologies by offering educational seminars and demo days
- providing efficient, continuing support and service after the sale

It is our commitment and integrity that has made Fox Machinery Associates well respected among our customers and machine tool builders over the last 50 years.

- The team at Fox

Your Solutions Partner.



...and more.

Serving the Northeast since 1968.

WEST VIRGINIA • MARYLAND • DELAWARE
PENNSYLVANIA • NEW JERSEY • NEW YORK

Call our headquarters today
to schedule an appointment

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MASSACHUSETTS • CONNECTICUT • NEW HAMPSHIRE
VERMONT • RHODE ISLAND • MAINE



ACCURPRESS

Accurpress will build a machine tailored to your needs.

Accell Hybrid

The Accell features **High Precision** and **High Speed Forming** designed to offer the ultimate in productivity and flexibility.



- Adjustable high speed forming
- Generous open height, stroke, and throat depth
- Four-point ram guiding system
- Vision or Vision 3D control systems
- Premium, Elite, and Supreme Backgauge Systems
- Custom configurations for your applications
- Up to 6-axis backgauge

Options from 60 to 285 tons
in Single & Tandem Configurations



Advantage

"The Most Productive, Easy-To-Use, Hydraulic Brake on the Market"

The Advantage is the perfect forming system that combines performance and accuracy to assure flexibility and productivity in an affordable solution.

- **#1 selling press brake in North America**
- ETS 200 or ETS 3000 CNC control
- Premium backgauge system 5-axis capability
- Custom configuration options available

Options from 25 to 1500 tons



ACCURPRESS

Accell E & U

With a high-quality build, an impressive number of features, options, and upgrades; along with competitive pricing and advanced controls, this is your first choice in Y1/Y2 machine technology.

**Options from
75 to 550 tons**
in Single & Tandem
Configurations



- Vision Control or ETS3000; Moses upgrade available
- CNC Gauging System with four upgrade options
- CNC crowning die holder
- WILA ram hydraulic clamping
- Generous ram open height/stroke length
- Robot integration available

Accell U upgrade package with nine options, including:

- Double speed forming pressure
- Material thickness sensing & pressure compensation
- Additional stroke and open height
- Teach crowning

Accell HT

**Rugged builds,
Oversized components,
Powerful gauging devices**

- Available up to 3000 tons
- Single machine bed lengths up to 40'
- Tandems up to 60'
- Option for custom open height, stroke, and throat depth
- Front and rear gauging available for pole bending applications
- High tonnage features
- Two complete Independent Hydraulic Packages mounted on exterior of side housings
- Back of machine clear of obstructions eliminating forming concerns with huge plates
- Soft start voltage
- An optional crane may be mounted on top of side frames to assist with handling of large parts



High Tonnage



Controls

ACCURPRESS



Vision Control

- Press brake control that is revolutionizing metal bending technology
- Import 3D files directly from SolidWorks & Inventor
- Instantaneous bend sequencing
- Interactive touch screen
- Lock critical flanges
- Multi-mode programming



Moses Control

- Use the ram as a touch screen
- Complete Vision functionality
- Run in full 3D
- Tool layout
- Part blank confirmation

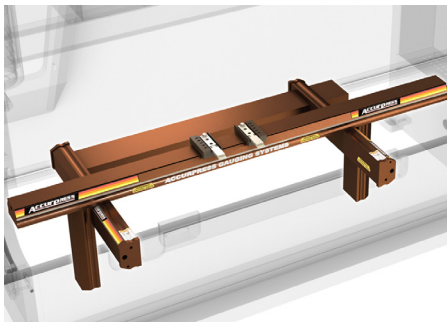
Not available on the Accurpress Advantage



ETS 3000 Control

- Graphic programmable control
 - Accell E - 7-axis
 - Advantage - 5-axis
- 15" TFT active matrix touch screen control
- Intuitive control - easy to operate
- Tooling library & material database
- Unlimited program storage
- 2D graphical programming
- Material calibration library

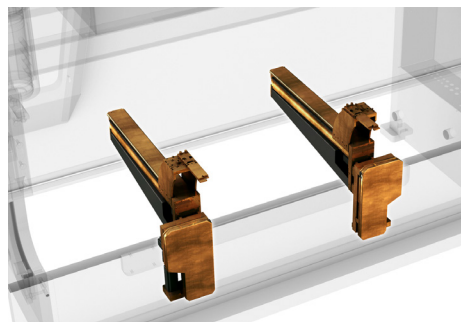
Backgauge



ACCURPRESS
Premium

- 4-axis
- Available for all models

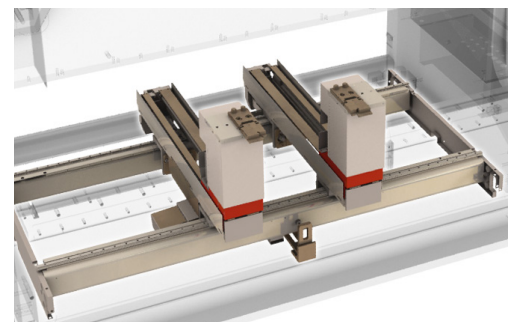
Offered with the ETS3000 control and is available as an optional gauge with the ETS100 and ETS200 on all Accurpress models. Available in 6' to 24'.



ACCURPRESS
Elite

- 6-axis (X1/X2, R1/R2, Z1/Z2)
- Available for all Accell models

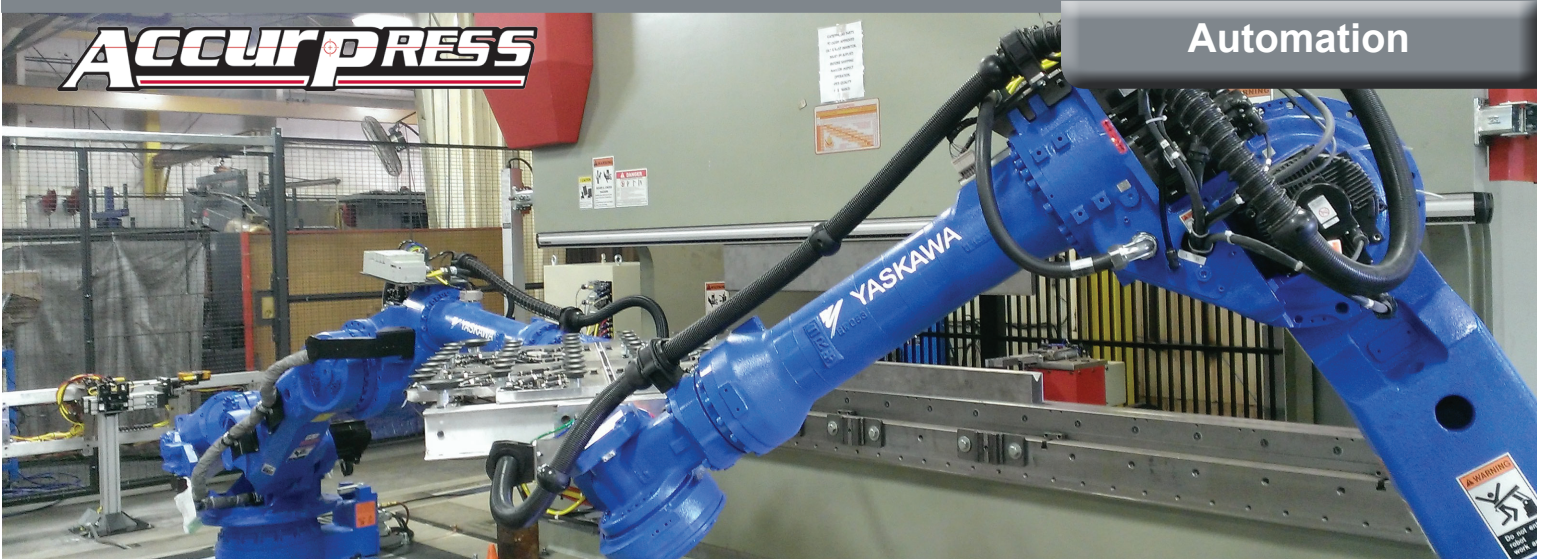
Offers a complete range of gauging motion. The precision fingers are machined with three gauging positions that provide 49" of supported gauging. Available with rear Sheet Follower Support System.



ACCURPRESS
Supreme

- 6-axis (X1/X2, R1/R2, Z1/Z2)
- Available for all Accell models

Designed for applications demanding the most complex sheet metal parts and in high-production shops. High acceleration and deceleration speeds provide versatility during production runs and complex bending routines. Includes Rear Interlocked Gate.



automation systems & robotic bending

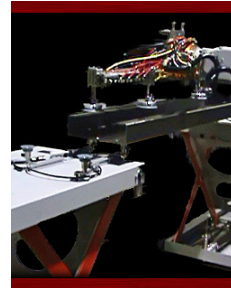
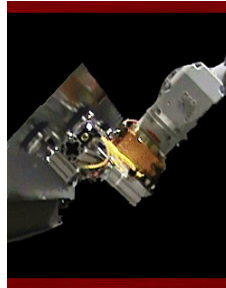
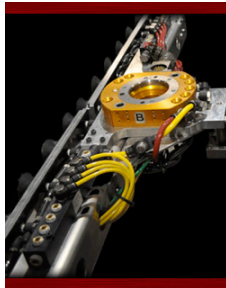
Designed for unmanned production.

Intelligent subroutines make programming easy.

Problem solving integration.

Customizable automation.

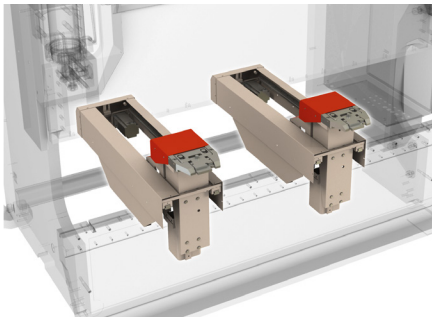
- AUTO GAUGING
- TOOLING CHANGING
- ROBOT GRIPPER CHANGING
- PART FOLLOWING
- MATERIAL THICKNESS DETECTION
- AUTO REPOSITIONING TABLES
- LOADING & UNLOADING



High Tonnage Options Built Exclusively by



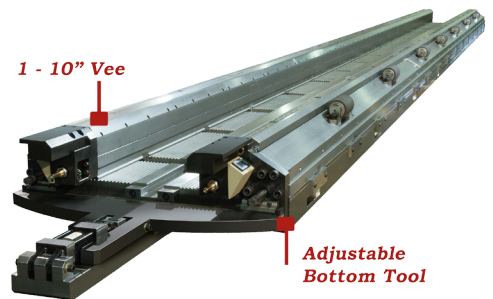
High Tonnage



Titan Backgauge

- Specifically built for high tonnage
- Available for larger Accell E and U models
- Rated for 65,000 lbs. static load & 20,000 dynamic load capacity
- Up to 6-axis gauging

Adjustable Power-Lock Die

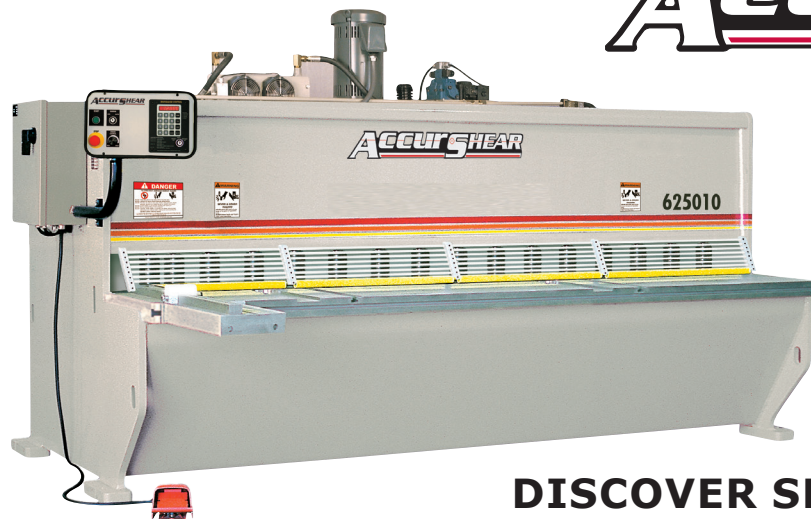


Go from a 2" to an 8" vee in seconds

- Automatic vee opening adjustment
- Optional angle measurement system
- Optional crowning capability
- CNC functionality

ACCUR SHEAR

**North America's
#1 Shear**



DISCOVER SHEAR POWER

Accurshear is a combination of simplicity and a strong, proven design that thousands of customers across North America have come to rely on.



Exceptional Standard Features:

- Highest shear rating capabilities
- Adjustable blade clearance
- Maintenance free bearings
- Lowest fixed rake angles
- Quality shearing knives
- 4-edge blade
- Power operated backgauge with pre-select position
- 4-foot squaring arm
- Shadow light
- Adjustable stroke length
- Variety of hand and foot controls

Optional:

- CNC Front Gauging
- Sheet Support
- Conveyor/Stacker
- Auto Sheet Feeder

CNC FRONTGAUGE/ARMS

Accurpress also offers an economical CNC frontgauge system, including optional lengths for the Squaring Arm and Front Arms, to enhance shearing applications.

ACCURVEYOR

The Accurveyor increases efficiency by accurately and conveniently conveying plates onto a stacker for quick removal.





World's #1 largest supplier of "standard" abrasive waterjet systems; leading the industry in table size, drive systems, software, pump efficiency, flexibility, and customization.

- 16 standard table sizes and over 40 size possibilities/combinations
- Standard models with beds from 2'x 2' to 26'x13'
- Free software upgrades on the OMAX machine platform
- Only designer of the innovative Direct Drive Variable Speed Enduromax Pump
- Greater pump efficiencies result in faster cutting speeds
- Longer work time between maintenance
- Use far less water than Intensifier pumps
- Vast reduction in oil need & usage

STANDARD FEATURES AND CAPABILITIES

CUTTING

3-Axis	Motorized Z	Motorized Z	Motorized Z
5-Axis	A-Jet, Tilt-A-Jet	A-Jet	
6-Axis	Rotary Axis with A-Jet, Tilt-A-Jet		
Cutting Nozzle	MAXJET 5i	MAXJET 5i	GlobalMAX Nozzle
Cutting Bed Sizes	2'5" x 2'2" to 46'8" x 13'4"	2'7" x 2'6" to 20'6" x 10'2"	2'7" x 5'0" to 13'3" x 6'8"
Cutting Bed Weight Capacity	400 lbs/sq ft	300 lbs/sq ft	100 lb/sq ft
Ballbar Circularity	±0.0025" to ±0.005"	±0.005"	±0.007"

DRIVE SYSTEM

	Intelli-TRAX Drive, Patented Linear Drive	Intelli-TRAX Drive, Patented Linear Drive	Proprietary Omega Drive
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TAPER COMPENSATION

	Tilt-A-Jet & A-Jet	A-Jet
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SOFTWARE

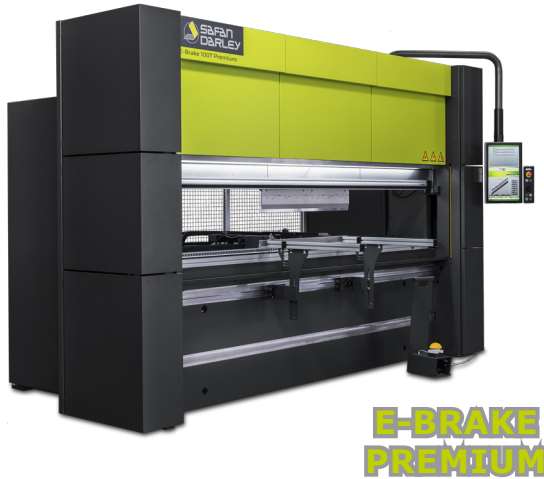
	Intelli-MAX Premium	Intelli-MAX Standard	Intelli-MAX Global
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PUMP

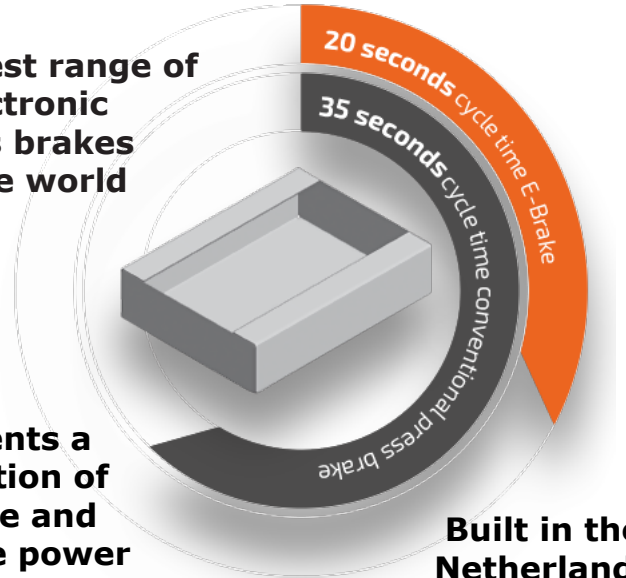
Standard Options	30HP EnduroMAX	20HP MAXIEM Direct Drive	20HP GlobalMAX Direct Drive
	40HP EnduroMAX	30HP MAXIEM Direct Drive	30HP GlobalMAX Direct Drive
	50HP EnduroMAX	40HP MAXIEM Direct Drive	
	100HP EnduroMAX	(EnduroMAX Optional)	



THE MOST PRODUCTIVE PRESS BRAKE AVAILABLE

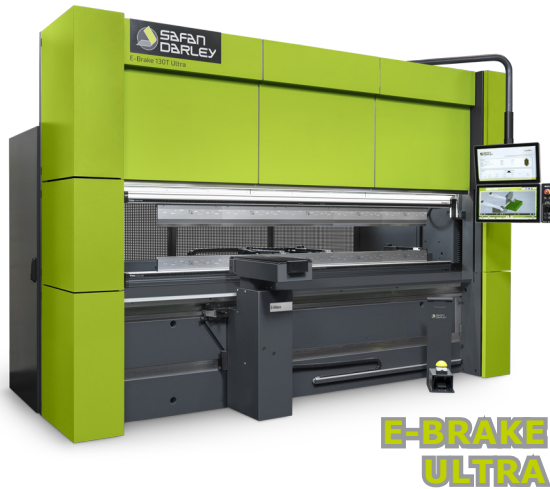


The widest range of electronic press brakes in the world



Represents a combination of expertise and innovative power

Built in the Netherlands to Exacting Precision

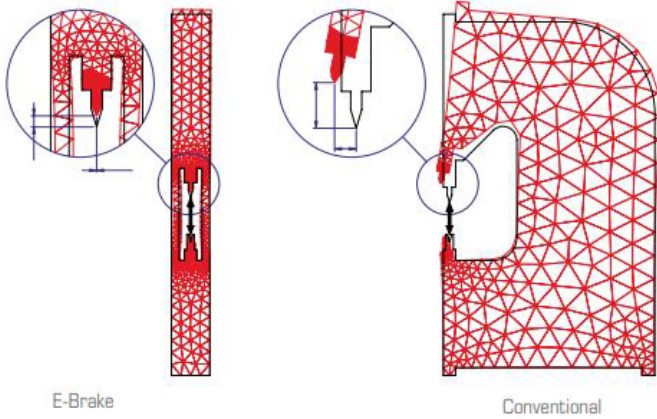


- Bending lengths ranging from 49" to 162"
- 35 to 300 ton models
- Integrated light curtain that doesn't slow production
- Up to 50% energy savings, low CO2 emissions
- Hydraulic oil not needed
- Noiseless operation
- Optional 2D simulated control via control panel
- Optional automatic tool changer
- Optional robotic integration
- Full working length backgauge
- User friendly touch screen control



Ergonomic Implementation Option (for E-Brake 35T and 40T models)



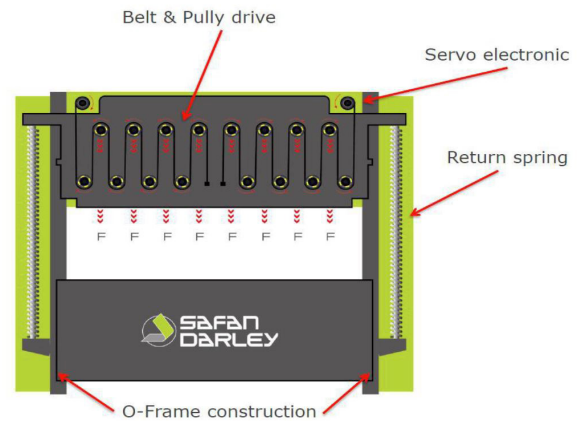


SERVO-ELECTRIC BENDING



- Full electric drive
- More than 30% higher productivity
- Up to 50% energy saving
- Low CO2 emissions
- No harmful hydraulic oil
- Noiseless operation
- Full working length backgauge
- User friendly touch screen control

The unique roller drive system in the upper beam ensures a **uniform and even distribution of forces**. A balanced combination of powerful electro-motors, fixed and movable rollers, and specially developed belts facilitate capacities of up to 330 US tons. The flexible belts, which are 3 mm thick and 100 mm wide, are reinforced with steel wires and coated with hard polyurethane. This advanced technology has been extensively tested in the demanding elevator industry. The mechanical drive is so trusted and reliable it comes with a five-year warranty on the system, when combined with an annual service contract. The special construction of the SafanDarley E-Brake also contributes to the **even absorption of large forces**. The O-frame acts as a single unit and deformation is kept to an absolute minimum. It is more stable, stronger, and **produces less deformation than a conventional C-frame**.



SERVO-ELECTRONIC DRIVE WITH SINGLE PULLEY SYSTEM



**SPEED,
RELIABILITY,
& PRODUCTION**
SafanDarley has it all

ELECTRIC SHEARS

- Energy saving hybrid drive, low CO2 emissions
- User friendly touch screen control
- Return-to-Sender sheet support
- Torsion free cutting of small strips
- Scrap separation
- Fully automatic adjustment of cutting angle and clearance
- Robust hydraulic system
- Increase product capacity on a shear up to 40%
- Operation of a single operator
- Single-belt conveyor with pneumatic sheet support arms
- Scrap sorting system
- Right-angled stacking
- Guarantees high cutting quality over the full length



CONVEYOR & STACKING



Cutting Systems

MetalMaster 2.0



- Compact size
- Cutting width is 5'; cutting length is 10'
- Cuts mild steel, stainless steel, and aluminum
- Plasma options available: Hypertherm Powermax 125, XPR170XD, or XPR300
- Turbo Flame™ Oxyfuel torch
- Oxyfuel options available: Turbo Flame™
- Positioning speeds of up to 1300 IPM
- Integrated cutting table with optional dust and fume extraction
- Fast torch CSL lifter 1180 IPM with CNC controlled Z-axis for process optimization

Edgemax

- Tool coverage 6'x12', 6'x24', 8'x12', 8'x24', 10'x12', 10'x24'
- Unitized frame
- Plasma and oxy capabilities
- Positioning speeds up to 1700 IPM



MetalMaster Evolution



- Machine width options: 6', 8', and 10'
- Cutting length can expand in 5' increments, up to 50'
- Machine motion accuracy is an exceptional +/- .002" over any 6' X 10' area
- Positioning speeds up to 2000 IPM
- Uses an aluminum beam extrusion for extra stability and support
- Many optional processes available: plasma beveling & oxyfuel cutting, drilling up to 3/8", marking, pipe and tube cutting, and material handling
- Slagger self-cleaning table

MetalMaster Xcel

The fastest and most accurate plasma machine available

- One of the most accurate machines on the market
- Machine width options: 6', 8', and 10'
- Rugged high-compliance dual drive gantry
- Dual fiber laser/fiber/plasma combination
- Beveling capabilities
- Slagger self-cleaning table
- Material handling options available



INDUSTRY LEADER

Plasma, Oxyfuel, Drilling, & Laser Machines

Plate Master II



- Machine width options: 8', 10', 12'
- Machine lengths 10' to 80'
- Travels at a rapid speed of 1000 IPM

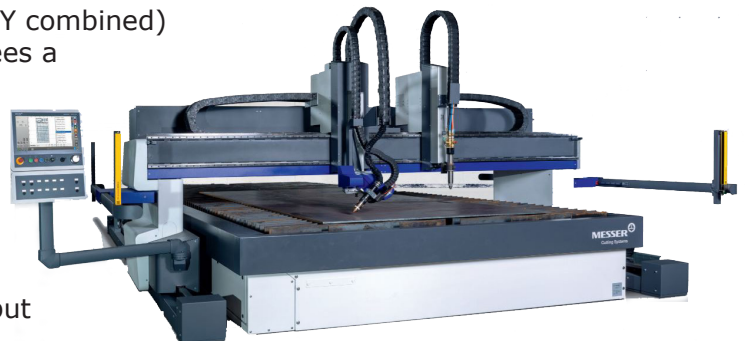
Titan III



- Cutting widths 6' to 16'
- Cutting lengths up to 150'
- Up to 8 torch stations
- Auto torch spacing
- Beveling
- Drilling up to 1/2"
- Marking
- Multiple processes available

- Increased productivity using high speed motion and dynamic tuning techniques
- Torch path movements at speeds up to 71 m/min (X - Y combined)
- Precision helical rack and pinion drive system guarantees a smoother, vibration free tool path motion
- Large format 18.5" touch screen and re-designed HMI
- Maximum customer flexibility
- Simplified rail installation
- Global Lifter with lightning fast speeds of 500 mm/sec stroke speed, combined with positional feedback, enables the torch to be instantly available to start the next cut, which increases the machine output

Global



MPC2000 (MC)



- Multi-process cutting machine
- Can be equipped with multiple carriages and up to five separate processes
- Drilling up to 2.5" diameter, tapping up to 1.5" diameter, and milling
- Tool storage for up to 24 tools
- Includes linear motion ways and state-of-the-art AC servo drives
- Tool Coverage: widths from 12' to 28', lengths from 6' to 200'

TMC4500 DB

- Cutting widths from 12' to 28'; lengths up to 200'
- Drilling up to 4" diameter and tapping up to 1 1/2" diameter
- Dual massive gantry process beams provide superior bending, milling and torsional strength for any tool combination selected
- Precision Linear Y-Axis way system with wide spacing to provide rigid support of any process tool
- Control Slide mount with optional glare curtain
- Positioning speeds up to 1,400 IPM



The Next Generation of Laser Technology

Fiber Lasers



Optiplex Fiber: Options up to 15kW configurations, 5'x10' or 6'x12' applications

Optiplex Champion Fiber: up to 5'x10', 2kW or 3kW

- Economical solution for reliable laser cutting in low variation environments
- Features an easy-to-use Manual Focus Torch for reliable operation and production consistency

Optiplex Nexus: 5'x10' standard, up to 7kW

- Superior edge quality, more stability, and greater throughput for a wide range of alloys
- Includes automatic torch setup, auto nozzle changing, auto focus position, focus detection, auto profiler calibration, auto nozzle cleaning, beam diameter control, & pierce/plasma/burn detection



OPTIPLEX NEXUS
3015 FIBER S7

NEW TECHNOLOGY Revolutionary VARIABLE BEAM PARAMETER PRODUCT better controls the laser beam for superior cut performance

V-BPP shaping technology delivers optimal thick and thin metal cutting, higher cutting speed, superior edge quality, and improved piercing time. Select from high-intensity, small-spot-size beam to large, donut-shaped beams, and everything in between.



Direct Diode Lasers

Optiplex DDL: 4kW or 6kW, 5'x10' or 6'x12'

- Includes: auto nozzle changing, auto focus position, focus detection, auto profiler calibration, and auto nozzle cleaning, pierce/plasma/burn detection, and lens monitoring

CO2 Lasers

Optiplex II: Options in 2.5, 4, and 6kW
Configurations at 5'x10' or 6'x12'

Optiplex Nexus: Standard with a 2.5kW option, at 5'x10'

Super Turbo Hybrid: Options in 2.5 and 4kW
Configurations at 4'x4', 4'x8', or 5'x10'

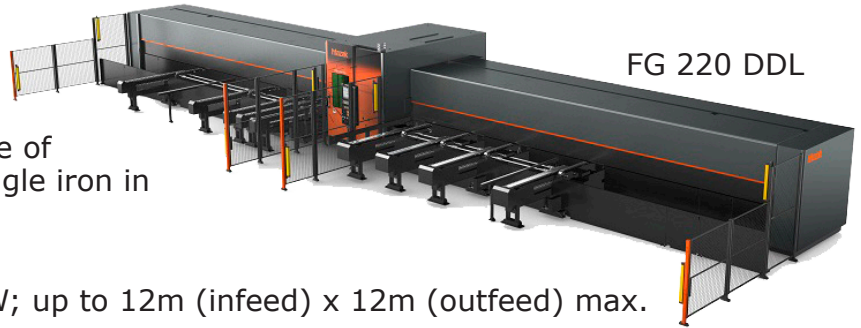
- Setup features: auto nozzle changing, auto focus position, focus detection, auto profiler calibration, and auto nozzle cleaning
- Monitoring features: pierce detection, plasma detection, burn detection, and lens monitoring

Super Turbo-X: Four model options to choose from



FABRI GEAR Tube & Structural Laser Systems

- Includes program controlled loading, workloading, and unloading
- 3D laser-cutting precision reducing secondary processes
- Features a powerful 6-axis laser - capable of processing I and H beams, C-channel, angle iron in mild or stainless steel
- Optional tapping head



FG 220 DDL

- 3D Fabri Gear 220 C02 III** - 2.5kW & 4kW; up to 12m (infeed) x 12m (outfeed) max.
- Rapid traverse rate of 3,937 IPM
 - Processes round pipe up to 8.6" in diameter

FG 220 DDL - 4kW

- Maximum Workpiece Length: Loading 26.5', Unloading 26'
- Maximum Material Diameter Round 8.66", Square 6.00"

3D Fabric Gear 400 - 4kW - up to 15mx15m maximum

- Options available with 2.5 kW or 4.0 kW resonator
- Processes round pipe up to a 16" in diameter

FT-150 Fiber Tube Laser Production Tube-Cutting Technology

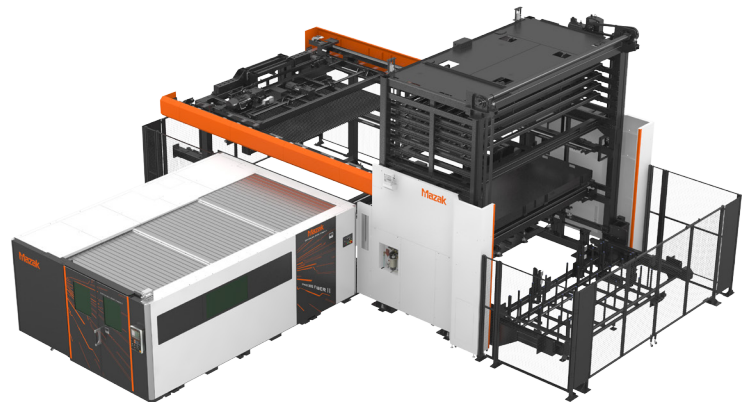
- Includes an agile U axis to facilitate high-speed and high-productivity for small to medium diameter tube production
- Features 2.5D torch with focus detection
- Comes standard with a 6.5 meter bundle loader
- Options include:
 - Friction stir drilling and tapping option
 - Spatter guard



Take advantage of Optiplex's speed...
keep up with your machine using

Load/Unload Automation

- Significant reduction in lead times
- Space saver options
- Makes one-piece flow more practical
- Produces short-run efficiencies that reduce non-value-added fabricating time
- Averages a 50% increase in capacity (compared to standalone machines)
- Allows for lights-out operation



Endless layout configurations available to suit your shop

**WORLD'S LARGEST
ROLL MANUFACTURER**



Four Roll Plate Rolls



- Single Pass Cycle: no need to prebend the two edges of the plate and then roll
- CNC control (available as an option)

MCA Models

- Plate thickness from gauge 1/2"

MCB Models

- Plate thickness from 5/8" to 4 3/8", and more
- Accurate, easy, and intuitive



Programs:

- 1,000 program capacity in memory (150 steps per program)

Program mode:

- Editor mode
- Teach-in mode
- Aided mode: part program generated by the CNC
- Ability to program multiple radii in one part

Operating mode:

Manual, Semi-automatic, or Automatic mode



Three Roll Plate Rolls

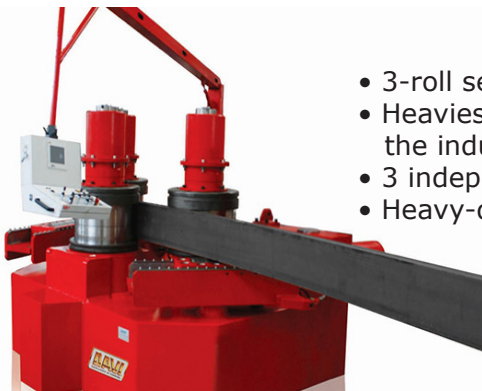
MAV Models - Variable Geometry

- 3 hydraulic driven rolls (standard)
- Ability to tilt for even the most inclined cones
- Servo-tronic patented roll synchronized parallelism control
- Plate thickness from 1 1/4" inches and above

MCO Models - Double Pinch

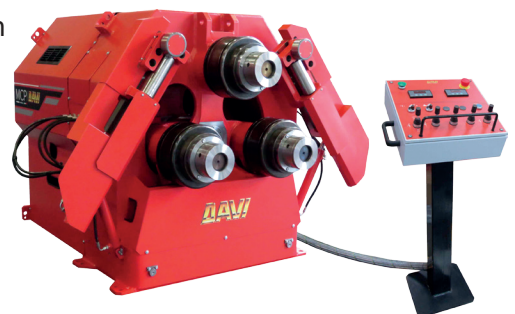
- Fixed top roll double pitch
- Pre bend without removing the material from the machine
- Plate thickness from 5/8" to 3/4"

ANGLE ROLLS



- 3-roll section rolls from 3" x 3" x 3/8" angles
- Heaviest and strongest machine structure in the industry
- 3 independent hydraulic rolls (standard)
- Heavy-duty 3D hydraulic guide rolls

Optional Feed & Support Systems Available





**NORTH AMERICA'S LARGEST
MANUFACTURER AND INDUSTRY
LEADER OF BANDSAWS**



M-Series



V-Series

-
- S-Series Mitering Bandsaw.....Medium miter capacity saw
 - M-series Mitering Bandsaw.....Large capacity and high duty-cycle mitter saw
 - H-series Double-Column Bandsaw.....Large capacity saw ideal for solid production cutting
 - V-Series Bandsaw.....Vertical saw capable of double mitering up to 60 degrees
 - C-Series Coldsaw.....Coldsaw available in manual, automatic, semi-automatic models with mitering from 90°, 45° right & left, 60° left and 45° tilted head
-



H-Series



S-Series

Models are available in Semi or Fully Automatic



Finishing



THE **WORLDWIDE STANDARD** FOR

SANDING
FINISHING
DEBURRING
HEAVY SLAG REMOVAL
GRINDING
EDGE BREAKING
EDGE ROUNDING
LASER OXIDE REMOVAL
ROTARY BRUSHES



LYNX 37

With the broadest range of wide-belt sanders in the world, Timesavers has the machine to achieve a single or many finishing applications.



**2200
Rotary Brush**

- Belt, brushes, rotary, & disc options
- Wet and dry machines
- 9" to 52" widths available
- 1 to 4 head configurations
- All-stainless steel wet machine options
- Custom machines built to order

Robotic Welding



DAIHEN Inc.

One-stop-shop for innovative robotic and manual arc welding solutions, OTC is a global leader delivering best-in-class quality and reliability.

Robotics – 6 and 7 axis, positioners, sensors, & controllers

Welding Cells – Pre-engineered for plug and play operation

Power Sources – air plasma cutting, WELBEE AC/DC TIG welding, compact and portable options

a pioneer in
ADVANCED WELDING
and automation technology





INNOVATIVE STRUCTURAL EQUIPMENT FOR INCREASED PRODUCTIVITY

- CNC Single Spindle Drill
- Drill & Coping System
- Angle Line
- Drill Line

Ficpe Valiant Multiple Spindle Drilling Line

- NEW - Auxiliary axis with 11-3/4" stroke: the Scribing/Drilling units move independently within their sub axis without limiting other axis
- 14-position tool changer
- Auxiliary axes with 11-3/4" stroke
- Double vices and dual alignment systems for improved material clamping
- Direct Drive spindles - deliver 100% of the motor's power to the tool for enhanced drilling performances
- Simultaneous drilling on all three surfaces, marking on all four surfaces
- Can easily be interfaced with FICEP band saws and coping robots to create an extremely productive integrated work cell



Angle Line CNC Angle Processing line for Structural & Miscellaneous Shapes

- 14 models available
- Process angles, channels and flats
- Punch, drill, mark, notch, and shear
- Roller or grip feed options



Ficpe Excaliber Single Spindle Beamline Ideal for Smaller Fabricators or Workshops

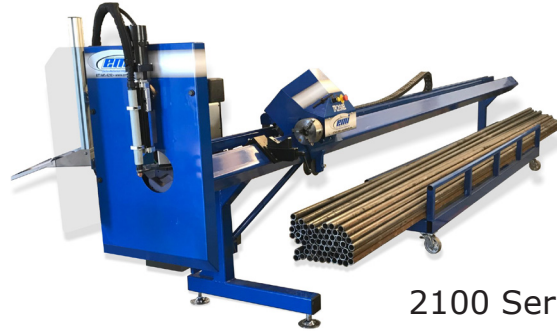
- Versatile sub axis lets you mark, mill, tap, and create layout lines for the saw to cut smaller sections
- Highly productive, low cost investment
- Precision movement of high speed spindle head
- Allows drilling, tapping & milling operations with through spindle coolant feature



Pipe & Tube

Is a **Plasma Tube Processing Center** the right fit for your shop?

- Have 80 hours per month sawing, notching, drilling, grinding, and shaping?
- Cut material and parts that have to be right the first and only time?
- Would a 75% reduction in pre-weld labor costs expand your market share?
- Would a consistent fit and edge prep help keep your team welding?
- Is consistency important to your overall product performance and sales?
- Would standardizing your products help you manufacture and sell more?



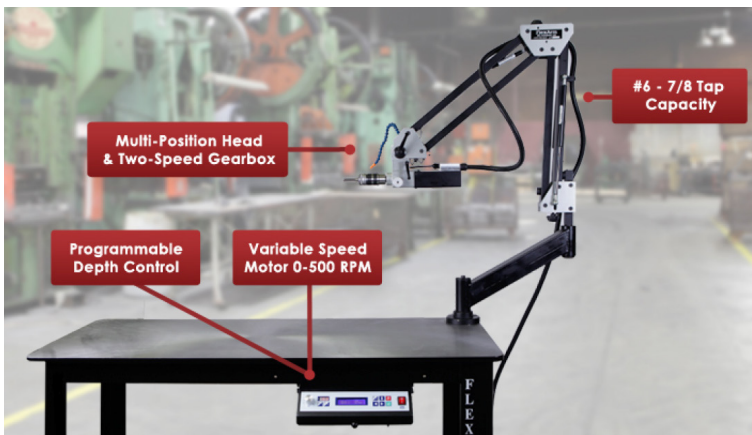
2100 Series



2400 SERIES

- Cut any combination of diameters and intersection angles with no tooling changes
- Eliminate manual measuring, sawing, notching, drilling, deburring, & repetitive handling
- Options to cut rectangular tubing, flat stock, and angle up to 4"
- Simultaneously produce holes, slots, and other features without drilling or punching
- Program parts about as fast as you can organize your cut sheet for the saw
- Integrated batching and nesting

Tapping



When your machining center isn't milling, drilling, or boring it's costing your company money. Tapping is an inefficient and costly CNC operation best done by a FlexArm. Using the FlexArm in conjunction with your machining center saves money, time, tools, and materials.

The **Hydraulic Tapping Arm** is the most industrial tapping arm on the market, with a capacity of up to 2".

- Digital depth control
- Speed control inverter
- Integrated tap lubricator

INQUIRE ABOUT THE NEW ELECTRIC TAPPING ARMS



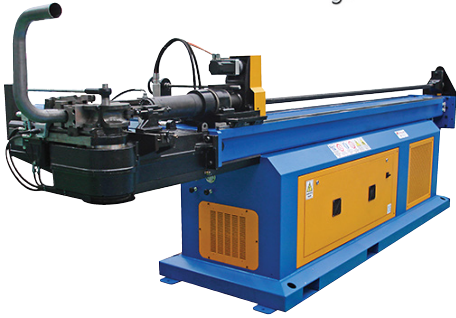
Pneumatic Tapping Arm

options include:

- Reach: options ranging from 11" to 72"
- Tap Capacity: options ranging from 0 to 7/8"
- Max Torque: 28ft/lb. or 63 ft/lb.



TUBE & PIPE BENDING



NC & CNC Mandrel Benders

Obtain quality repeatable bends in steel, stainless, aluminum, titanium and brass with Ercolina's Erco Bender 76 Mandrel Bender. Ercolina's model EB76 - 3-axis mandrel bender has an extended bending head capable of bending complex shapes and profiles.



Metalworking Machinery

Ercolina's Era Form ornamental metalworking machine is ideal for press forming applications, bar twisting and decorative scrollwork.

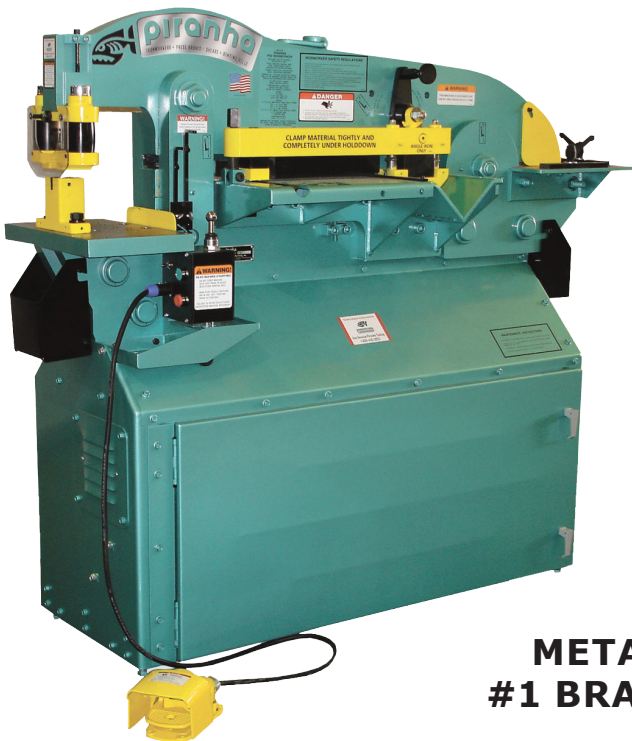


Rotary Draw Benders

Ercolina's TB60 Top Bender is ideal for producing consistent quality bends in pipe, tube, squares, solids and other profiles. The fabricator's machine.



Highest customer satisfaction and the highest resale value in the hydraulic ironworker marketplace.



- Nine easy-to-use models
- Range from 50 to 140 tons
- Single-operator and dual-operator models
- Versatile with a wide range of tooling & attachments
- Quick change tooling
- Industry leading cycle times
- Urethane hold downs
- World's best copier notcher
- Low rake angle and high power gives you the highest quality sheared edge

**METAL FAB INDUSTRY'S
#1 BRAND OF IRONWORKER**

Sheet metal working center

Punching, forming, bending, threading, beading

- 50" or 60" throat x 100" working area
- Tooling capacity to 60 tools and 30 auto-index stations
- 33 and 55 ton punching and forming capacity
- Easy-to-use programming console or off-line capable
- Servo hybrid design
- Available with load/unload automation



Horizontal Bender Digibend

- Maximum bending flexibility
- Min. to max. working speed (mm/sec): 4.8 to 9.6
- Max. pressure (kN) – 200; max. stroke (mm) - 195
- Easy to use control system (2-axis CNC controlled)
- 22 options and upgrades including backgauges, shapers, punches, and dies



Notching

- Automatic blade gap adjustment
- Symmetrical and no-symmetrical notching varying from 30° to 140°
- Reversible blades
- Central slot of 50x100mm, gap of 270mm, head extension of 285mm
- Speed adjuster from 0 to 10mm/sec



BOSCHERT



MP Series

- Open C-frame construction
- 36 ton capacity
- Working ranges to 60" x 120"
- Tool sizes to 4" round
- Automatic Tool Change in under 5 seconds
- 8-Position ATC carousel for single or multi-tools
- Full rotation to ram standard
- 800 strokes per minute punching
- Automatic repositioning standard
- RevoTool multitool solution available (up to 64 tools possible)



CP Series

- Economical start to CNC punching
- User-friendly graphic programming
- Heavy duty C-frame construction
- Automatic repositioning & turning of sheets
- Working range: 30" to 120"
- Punching force: 36 or 50 tons
- Punch diameter: up to 4"

A WIDE RANGE OF SOPHISTICATED CNC SHEET METAL PUNCHING MACHINES OFFERING THE BROADEST AVAILABLE SELECTION OF MODELS AND SIZES, EASILY CUSTOMIZED TO YOUR APPLICATION.



Evolution Series

The ultimate in folding flexibility and speed

- The EVO folder allows for an Inside Bend Radius (IBR) of less than material thickness and flange lengths of 3X material thickness or less.
- Offered standard stroke and opens of 33 1/2" , and up to 63 1/2" as an option
- Bending speeds up to 150° per second, and clamping beam speeds approaching 300 IPM
- Work around space up to 200mm for up and down
- Bending without the need to clear a flange in the up/down folding process is standard.

Powerbend Series

- The Powerbend Series is a series of mono and bidirectional folders that are quickly changing the relationship between high-tech competency and high cost
- Unique to the PowerBend is its ability to be configured, and reconfigured. Starting with the frame, options are simply bolted on, growing capabilities, expanding flexibility, and when done, the end user has a folder perfectly suited to the application.



ROPER WHITNEY.

Kombi Autobrake

These sheet metal brakes are a high speed solution for multiple bends while maintaining a high quality level in the end product. With multiple backgauge options, the brakes provide accurate part location through the use of servo drives, and are expandable with optional backgauge extensions. The rigid design includes crowning adjustments to ensure accurate bending regardless of raw material stresses.



Programming Functions:

- Bend angle
- Gauging distance
- Spring back compensation
- Offsets for hem operations
- Radius profile macro gauge
- Open hem height
- Customer alpha/numeric part number
- Open, closed, or teardrop hemming entering of part
- Information screen for related data
- Material handling instructions
- Jaw opening
- Programmable part counter



FEATURING THE UNIQUE
Kombi Beam
WITH MOUNTED TOOLING

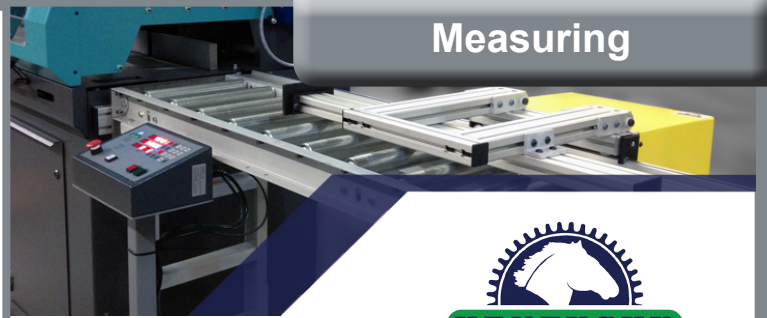
Tooling mounted to a fabricated structural prism designed to firmly clamp a broad range of materials and withstand forces generated by capacity forming operations. Machined into the Kombi Beam, 180° from each other, are the attachment surfaces for the straight and box and pan tooling. Rotation of the Kombi Beam is powered by a brake motor driving a sprocket and roller chain mechanism.

Filtration

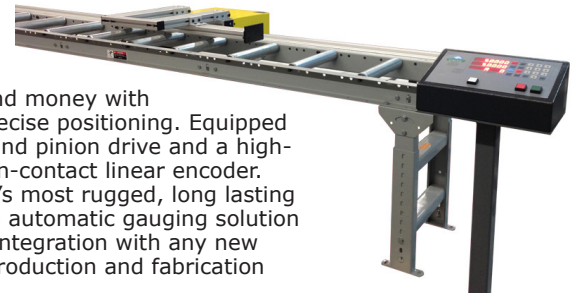


- Closed Loop Water Filtration Systems
- Garnet Removal Systems
- Weir Tanks
- Chiller Applications
- Portable Filtration
- Coolant Filtration
- Grinding Oil Filtration
- Evomatic Central Filtration and more!

Measuring



PD100 Auto Stop/Pusher System



Save time and money with quick and precise positioning. Equipped with a rack and pinion drive and a high-accuracy, non-contact linear encoder. The industry's most rugged, long lasting and accurate automatic gauging solution is ready for integration with any new or existing production and fabrication equipment.

Other available machinery from Kentucky Gauge:

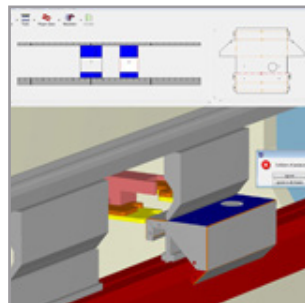
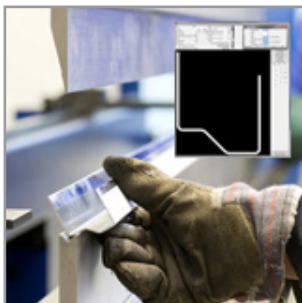
- Automatic/Semi-Automatic Stops & Pushers
- Manual Length Stop Gauges
- Measuring Machines
- Turnkey Systems
- Conveyors & Tables

Software



TOTAL CAD/CAM SOFTWARE SOLUTIONS FOR BENDING & CUTTING SHEET METAL

- Drag-and-drop data input
- Batch processing of DXF/DWG
- Smart order lead-ins
- Automatic hazard avoidance
- Intelligent tagging of components and scrap
- Automatic common line cutting



Tooling Storage



PROFESSIONAL TOOL STORAGE

Stock and custom options for heavy-duty, industrial tool storage with lean manufacturing or security options.



- Industrial tool cabinets
- Change-over carts
- High performance mechanic workstations
- Heavy duty general storage cabinets



Tooling



Precision Ground Quick Change Tooling

- Quick tool change with "Safety-Click"
- All working surfaces precision ground to +/- .0004"
- CNC deep hardened tooling

Clamping Systems

- Integrated hydraulic clamping by hardened clamping pins
- Available for ram and bed
- The fastest tool changeover time
- Automatic clamping: seats, centers, and aligns tooling in less than eight seconds

Crowning Systems












- Both CNC and manual
- Patented "WILA Wave" compensates for deflection
- Localized adjustments for compensation of tolerances

Ask about Retrofit options for your older press brake.



- Ironworker tooling
- 28xx style tooling
- **Fast** lead times
- Quality tooling

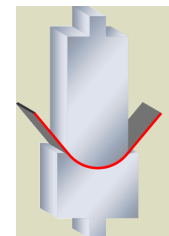


-  90° Forming Punches and Dies
-  Gooseneck Punches
-  30° Forming Punches and Dies
-  Flattening Dies
-  Offset Forming Dies
-  Hemming Dies
-  Radius Dies
-  Channel Dies
-  Wiping Dies
-  Tipped Angle Dies
-  Rocker Dies
-  Corrugation Dies
-  Standing Seam Dies
-  Curling Dies
-  Box Forming Dies
-  3-Way and 4-Way Dies
-  Adjustable Vee Die
-  Special Ram Adapters
-  Die Holders



Press Brake Dies, Inc.

Trusted leader in special & custom press brake tooling



Trade Ins & Retrofits

Make room for accuracy, speed, and efficiency.



Consider trading in your current machine as a portion of purchase on a new machine.

Looking to increase production, tonnage, speed, accuracy?

Talk with a Sales Engineer about trading in your existing machine on a new machine.

Compile machine details and start a discussion with your Sales Engineer.

- Make/Model/Serial Number
- Year
- Length
- Watts/Voltage/Capacity
- Specs
- Condition
- Included items
- Operating system
- Pictures from all angles
- Availability

Why Retrofit Your Existing System

- Increase uptime
- Increase efficiency
- Adjust to increase in production demand
- Decrease lead times and production cost
- Ensure your machine is running to its fullest potential
- Create greater versatility in a machine currently operating well

Retrofit options include

- Operating system upgrades
- Operator assisted devices (backgauges, controllers, sheet followers, safety lasers, light curtains, conveyors)
- Fully automated robots

Upgrades are available for 24+ brands of metal fabrication equipment.

Contact your Sales Engineer to discuss available options for your machine. We can help identify challenges and recommend systems to meet your needs now and into the future.



Service & Support



**Contact the
Fox Machinery
Service Department
at 610.275.4700**

We understand how vital your machine's up time is to your company's success. Fox Machinery Associates works tirelessly to ensure your satisfaction with every machine you purchase. The goal of our service partner, Welmaintained Inc, is to provide the highest quality service to you and your machine. The Welmaintained team offers honest, competitive rates with a goal to quickly evaluate, diagnose, and repair your machinery. The technicians are factory-trained to provide timely and quality repairs.



- New machine installations
- Preventative maintenance plans
- Control upgrades
- Spare parts inventory on all service vans
- Proficient with many makes & models
- Experience with obsolete machines
- On site operator & machine training
- Demos with the latest fabricating technology
- Technology seminars to help improve your workflow

***We are always looking for ways
to better serve our customers.***

One way is to have more Qualified Service Techs available to make sure that you get the service you need as soon as possible. If you or anyone you know is interested in a career in service, please contact us at **610.275.4700**.

Mechanical, Hydraulic, and Electrical experience preferred.

Your referrals are greatly appreciated!

**Technology
Showroom**

***Schedule a demo
near you today!***

Hydraulic & Electric Press Brakes

Shears

DDL, Fiber, & CO2 Lasers

Plasma & Oxyfuel Cutting Systems

Waterjets

Sawing

Finishing Machinery

Plate & Angle Rolls

Pipe / Tube Cutting & Bending

Ironworkers

CNC Punching

Structural Equipment

Folding Systems

Filtration

Tooling

Controls, Software, & Safety

Robotics & Automation

and more!

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