



## Introduction

For every company investing in equipment is a major decision.

The choice for the best supplier is crucial for the future of your business.

At FERRIC Machinery our knowledgeable staff will listen to requirements set by the client and help make an informed decision that answers your production and service needs.

A full line of fabricating equipment and services is available with the latest technology on machine design – operation and controls. For advanced applications, off-line software packages guarantee a steady product flow through the plant.

FERRIC Machinery is the exclusive distributor for several machinery manufacturers and this booklet will give you more information on the new equipment and services we offer.

Additionally, we offer pre-owned equipment that has been carefully inspected and tested prior to sale.

Equally or even more important to the purchase of your equipment is the after sales service and parts supply in case of a break down. FERRIC Machinery has a knowledgeable crew of service technicians and spare parts stock to minimize the downtime of your equipment and we also offer service plans for your purchased equipment.

We invite our customers and potential customers to visit our new Cambridge, Ontario showroom where we have most of our machines on display, ready to give a demonstration on the working and capabilities of the equipment.

With lots of successful installations and references, we guarantee quality products and dependable service at a great value.



Our inventory of machinery is one of the largest in Canada, and we are able to deliver on short notice.

With machine stocking partners in Eastern and Western Canada we offer our full product line and dependable service over the whole of Canada.

If you are currently in the market for new or used equipment or need service on your existing equipment, please do not hesitate to contact us. We are here to work for you!

Additional information is available on our website: [www.ferricmachinery.com](http://www.ferricmachinery.com) or follow us on twitter or facebook.

***“There are only two ways to grow your business with customers:  
new technology and superior after-sales support.  
At Ferric Machinery, we offer you both.”***





## Fibermak Raptor

The Raptor fiber laser center was designed for the needs of the small to medium size companies keeping in mind to offer a well built, reliable machine, capable of handling all required laser cutting in house, with an affordable investment and fulfilling all the needs for a reliable machine.

One piece welded cutting table with ultra-light dual X axes driven gantry. Cutting table has zoned suction chambers optimizing the dust and smoke collection and minimizing the size of the dust collector. A motorized conveyor moves the scrap and small parts to the collector bin, located at the front of the machine.

Complete enclosed ergonomic machine cover with good visual access to the cutting area. As safety is a priority, the standard machine comes with perimeter light beam protection around the dual pallet changer.

### General Specifications

- Table: 5 x 10 ft
- Dual automatic pallet changer
- Beckhoff controller
- Automatic scrap conveyor
- Min. floor space
- Lantek Expert CAD/CAM auto nesting software
- Precitec ProCutter Autofocus cutting head
- Dust Collector



Laser Source	IPG 1 / 2 / 3 / 4 kW
Table Dimensions	5 x 10 ft
Material Types	Mild Steel Stainless Steel - Aluminum Copper - Brass



## Lasermak

### CO<sub>2</sub> Laser Cutting Machines

To get perfect cutting results, Lasermak frame and components are specially machined in CNC machining centres with maximum precision. Lasermak is equipped with linear motors which are optional for most other brands.

The axes, moving along by strong magnets mounted on the frame, provide high speed and maximum acceleration. (Y axis 3G). This high speed and acceleration provides increased efficiency and productivity while also decreasing operational costs.

Frame and bridge are assembled by expert engineers and tested with the latest high-tech measuring technology in every phase of the manufacturing process. This is the main reason square and circular cutting is performed perfectly.

#### Customer Benefits

- Lasermak's automation eliminates human errors in production
- You can decrease investment costs with 24 hour mass production
- With laser cutting you save more by not using hand tools
- You can cut materials such as steel, nickel alloys, titanium, chrome, stainless steel, aluminum etc. with smooth surfaces and accurately
- Automatic nozzle cleaning and changing
- Durable choice for your precise laser cutting jobs

Laser Source	FANUC 2.5 / 4 /6 kW
Table Dimensions	4 x 8 ft / 5 x 10 ft / 6.5 x 13.5 ft / 6.5 x 20 ft
Material Types	Mild Steel Stainless Steel Aluminum

\* Please contact us for special table size.





## Jonsen Metal De-Burring & Finishing

Jonsen made its name in the metal de-burring and finishing industry with the philosophy: excellent engineering for standard and custom built machines with worldwide available parts.

**Innovation First:** the first to introduce 4 pillar separate synchronized balance system for leveling.

**Built to Last:** solid stainless steel interiors on wet applications is one of them.

**Smart Design:** introduced patented conveyor belt tracking resulting in a longer belt lifetime and simplified belt replacement.



Types  
Stations

Wet or Dry  
Bottom De-burring  
Disk Brush  
Abrasive Disk  
Barrel Brush  
Abrasive Cylinder

Movement

Rotary / Oscillating / Rotary-Oscillating

Feeding

Conveyor – Vacuum Table

Particle Removal

Dust Collector





## Speed Bend

### Synchronized Hydraulic Press Brakes

ERMAKSAN understands that production times are key to the profit of enterprises.

The Speed-Bend series is designed to enable fast high quality production in order to decrease time per unit costs in a competitive environment.

Free-fall, bending and return speeds of Speed-Bend series press brakes are increased according to the needs of today. The Speed-Bend series offers double production capacity compared to conventional CNC press brakes.

#### Customer Benefits

- High free-fall, bending and return speeds
- The most powerful control software and hardware – CNC - 2D - Full 3D programming including off-line software with dxf-dwg import
- Motorized CNC controlled crowning system
- 4 axes (X-R-Z1-Z2) back gauge with servo motors
- Several tool clamp options
- Durable choice for your precise bending jobs
- Sheet following system available as option

Bending Force	44 to 660 Tons
Bending Length	4 - 20 ft single machine or tandem
Standard Back Gauge	4 axes upgrade option to 6 axes independent
Crowning	CNC Motorized
Tool Clamp	Wila hydraulic – European – North American
Controller	17" - CNC - 2D - Full 3D with off-line programming software





## Powerbend Falcon

The Powerbend Pro Falcon series have been designed based on users' preferences and now contain unique programming and mechanical features.

The Powerbend Pro Falcon series are among the highest rated machines which will help you increase your productivity and keep your costs at a minimal level.

It is exactly what you need for your production, where complicated, single or multiple bends need to be done accurate in a minimum of set up time.

### Customer Benefits

- Perfect configuration and economic solution for your precise bending jobs
- The most powerful control software and hardware – CNC-2D programming with the Delem DA58T Touch screen control
- Motorized CNC controlled crowning system
- 2 axes (X-R) back gauge with servo motors
- Several tool clamp options, standard N.A. & European Style
- Durable choice for your precise bending jobs
- Easy installation and training

Bending Force	44 to 660 Tons
Bending Length	4 - 20 ft
Standard Back Gauge	2 axes (X-R)
Tool Clamp	Wila hydraulic – European – North American
Controller	CNC - 2D Delem 58T touch screen controller



## Heavy Duty Single & Tandem Machines

### Synchronized Hydraulic Press Brakes

ERMAKSAN's reliability, superior product quality, high production technology meets the needs of an ever-changing world market and continues to provide flexible solutions to customers every day requirements.

ERMAKSAN Heavy Duty Press Brakes meets the requirements of all sectors engaged in the production of heavy machinery such as transportation, wind turbines, power plants, and the defence industry.

#### Customer Benefits

- 17" 3D, LCD touch screen ER-90 +
- Perfect configuration for your heavy tonnage bends
- Absolute solution for deep and full-sized bends
- Continuous precision with dynamic crowning system
- Motorized crowning system
- Durable choice for your precise bending jobs
- Special top and bottom tools
- Mobile control unit
- Single & multiple back gauge axes
- Custom built application on request

Working Length	10 ft to required machine length single or tandem
Tonnage	600 tons to 2000 tons single machine length
Independent Working Machines	Standard
Crowning Systems	Motorized Hydraulic Dynamic Hydraulic



## CIDAN Folding Machines

Folding machines from CIDAN Machinery are the best solution for companies who are looking for flexibility in their production and who have an environmentally friendly approach with the aim of cutting down on costs.

A typical hydraulic folding machine usually uses up to 1300-2000 additional hours of electricity annually, just to keep the hydraulic unit running during one shift. CIDAN Machinery's folding machines only use power when operating which leads to reduced costs for electricity.

### Reasons Why Choosing a Folding Machine from Cidan Machinery

- Fast start up time
- Fast setup
- Leaves no marking on polished, painted or sensitive material
- Low noise
- Larger parts can be processed by a single operator
- Superior ergonomics
- Blank inaccuracy is corrected on the first bend
- One set of universal tooling for life of machine
- Programming and operation by non-skilled operators
- Main part of material on back gauge during folding
- Less risk of collision with operator during folding

CIDAN folding machines are not using oil as they are electro mechanical machines. This makes them environmentally friendly and reduces the operating cost since there will be no yearly oil changes and thus less costs for maintenance.



Working Lengths	8 - 10 - 13.45 ft
Capacities	24 G - 5/16"
Operation	Programmable



## ETP-S Servo Drive CNC Turret Punch Presses

Faster – More Precise – More Environmentally Friendly

The new ETP-S turret punch presses are manufactured with Ermaksan’s proven quality and experience in the production of sheet metal machinery.

Strong mono-block rigid donut type body, built using stress relieved welded steel and equipped with high acceleration axes and servo electric driven punching head. Sheet processing can be done multi directional and flexible up to 3/16” material thickness.

### Customer Benefits

- Designed to decrease learning time to the minimum
- Allows users to produce parts on the first day with its simple and user-friendly user guide
- Decreases data input significantly by using perfect auto complete
- Chooses the most appropriate sheet and the required blank size of the material by using auto nesting, saving costs by minimizing material waste
- Decreases preparation time due to its fully automatic tools
- Durable choice for your precise punching jobs
- Easy installation and training

Punching Power	22 - 33 Tons
Turret Stations	27 - 33 (some auto index)
Max Sheet Size Without Repositioning	48 x 78” - 48 x 98” 60 x 78” - 60 x 120”
Type of Tooling	Thick Turret
Automatic Tool Lubrication	Standard
Controller and Axes Drives	Fanuc™



## Excellent Cut, Perfect Speed

The HVR and HGD shears are able to cut all kinds of metal sheets while maintaining the highest production capacities with maximum precision and quality.

### Customer Benefits

- ER-7 cut user-friendly controller
- Long lasting durable blades
- Flexible solutions for different cutting demands
- Light curtain for finger protection
- Laser cutting line
- Pneumatic sheet support system
- Ergonomic design
- Durable choice for your precise cutting jobs
- Easy installation and training

	HVR	HGD
Maximum Cutting Thickness	1/4" - 1 1/2"	1/4" - 3/4"
Cutting Length	10 ft - 30 ft	6.5 ft - 13.5 ft
Automatic Blade Gap Adjustment	Automatic	Automatic
Automatic Cutting Angle Adjustment	Automatic	-
Touch Screen CNC Controller	DNC 61	ER7 Cut



## GMR

### Mechanical Shear



ERMAKSAN quality and experience in the production of sheet metal working machinery is demonstrated in the GMR mechanical shear.

The static and dynamic stiffness of the body and strong welded construction are designed to withstand harsh operating conditions. It is designed specifically for thin sheet material and works very efficiently at high speeds.

Less energy consumption, quiet operation and high productivity all together with its small footprint.

The ERMAKSAN GMR shear is the perfect choice for any fabrication facility.

Maximum Cutting Thickness	1/8" - 3/16"
Cutting Length	4.5 ft - 10 ft
Controller	Elgo 9521
Backgauge	Motorized backgauge up to 30" stroke

# Hydraulic Notching Machines

## SIMASV

### Hydraulic Notching Machines



With its line consisting of twelve models, the company has demonstrated its willingness to provide a solution to any specific market request.

As well as offering fixed and variable angle models, the SIMASV notching machines are also available with punch heads, variable blade lengths (between 8.66 and 9.84") and a cutting capacity up to 3/8".

The automatic adjustment of the blade gap on all models, fixed 90 and variable angle models from 30° to 140°.

Cutting Capacity	1/4" - 3/8"
Cutting Angle Adjustment	90 degree fixed or 30 - 140 degree variable



## Cosen Band Saws

A manufacturer for more than 50 years, Cosen is one of the world's leading band saw manufacturers currently offering 140 models: horizontal, miter cutting, NC & CNC automatic and customized machines.

The diverse cutting abilities of Cosen machines serve numerous industries such as construction, automobile, transportation, machining,...

Capacity	7" - 126"
Materials	Steel, Titanium, Chromium, ...
Material Types	Solids, Structural, Tubing, Plate
Feeding	Manual – Semi Automatic – Automatic





## HIW Ironworkers

The HIW ironworkers come in single operator and dual operator models (Single operator has one hydraulic cylinder – Dual operator has two hydraulic cylinders). The tonnages range from 45 to 175 Ton and are well engineered and built for a long working life.

These universal machines are supplied with standard tooling including repetition support tables at punch, shear and notch stations. Easy adjustable hold downs at all five work stations allow safe operation at all times. Free standing on a suitable floor, they just require electrical connection to be ready to work.

### Customer Benefits

- Perfect solution for precise cuts
- Does not require large space
- User-friendly and simple machine operation
- Punching, flat shearing, angle shearing and notching options
- Minimum space requirement with compact design
- Easy installation and training

### One Machine, Multiple Operations

HIW series Combined Ironworker are efficient, quality machines essential to every fabricating shop.

	Single Operator	Dual Operation
Capacity	45 - 60 Ton	60/80/100/125/140/175 Ton
Stations	Punch – Flat Bar – Angle – Round/Square Bar – Rectangle Notch	
Voltage	220 - 600/3ph or 220/1ph	220 - 600/3ph
Options Available	Bar Bending Unit Channel – T-I Beam Blades	





## AKBEND Hydraulic Plate Rolling Machine

If your application is rolling cylinders or more advanced shapes and cones, the AKBend rolls are up to the task. Designed with the latest 3D Cad programs by experienced engineers with a stress relieved steel welded frame and high quality materials for the rolls and bearings, these machines are up to any rolling task.

The AKBend machines are available in 3 (AKH) and 4 (AHS) roll models with different working lengths, steel thickness and working lengths. The 4 roll machines can be equipped with a NC Teach In or graphic CNC controller.

### Machine Standards

- Induction hardened rolls
- Hydraulic drop end and top roll lift to remove finished parts
- Hydraulic drive motors for rolling
- Cone bending device
- Two speed control
- Digital display for bending rolls
- Control panel on wheels
- Perimeter safety wire

### Machine Options

- Side and center supports for big diameters
- Variable rolling speed control
- AK 300 manual & teach in control
- AK 400 manual - NC teach in & CNC control
- Oil cooler

Thickness	1/8" - 8"
Working Length	4 to 20 ft



## AKBEND 3 Rolls Asymmetrical Bending Rolls (Slip Rolls)

The ASM models stand out as high quality electrical driven plate roll with user friendly features. The compact design allows easy moving and storage when the machines are not used.

### Machine Benefits

- Induction hardened rolls
- Swing away top roll to remove finished parts
- Electric driven bending roll & roll movement
- Manual clamping of the material
- Cone bending device
- Digital display for bending roll
- Moveable control panel
- Perimeter safety wire

Capacity	16G – 1/4" material thickness
Working Length	4 ft - 10 ft



# Profile Rolls



## AKBEND Profile Rolling Machine

The sturdy built FERRIC- AKBEND are reliable with their St 52 weld construction body. Minimum flex together with enlarged roll diameters results in less deformation from the part. Universal, modular rolls creating the possibility bending various kinds of profiles.

The 3 roll drive system increases the capacity of the rolling processes by minimizing the slip of the materials during the rolling and have the capability to make pre-bending on both ends of the material.

Side supports can move in three directions, reducing the deformation and facilitate the rolling process, especially angles and spirals.

Capacity	from 1 1/2" to 7 3/8" angle – 1/8" to 1 1/8" thick
Hydraulic Side Guides	Standard on some models
Induction Hardened Rolls	Yes
Material Feed	2 way standing up or laying down

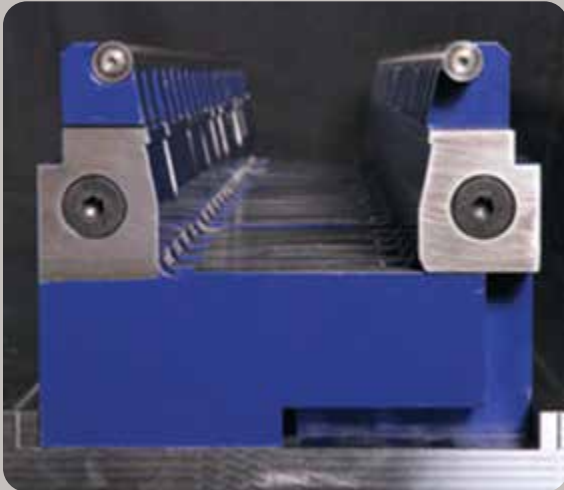


## Press Brake Tooling & Clamping System

We offer a wide selection of press brake tooling and clamping systems to fit and style and make of press brakes: North American, European, Wila® style with or without automatic power pack system.

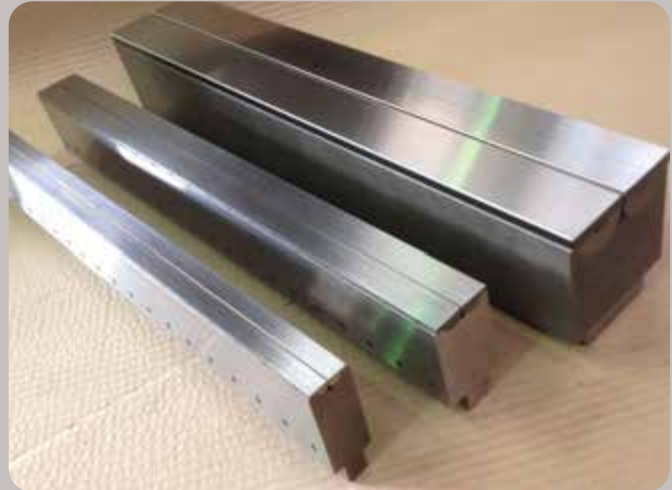
Beside the Standard North American tools with planer machined finish and hardness 28 - 30 HRC, we offer Rolleri Precision tooling made from high grade tool steel, grind, polished finish and induction hardened to 54 - 60 HRC.

### Special Tooling Adjustable Dies



### Rolla V Die

- Minimum Bending Edge
- Minimum Hole Distortion

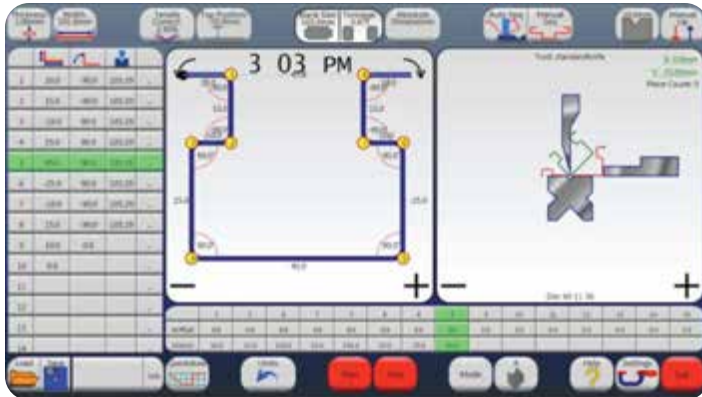


### Clamping System Wila® Style



### Urethane Mark Free Bending Dies





## Press Brake Control Retrofits & Safety Systems

Ferric Machinery Inc. is the exclusive dealer for FASFOLD press brake controls in Canada.

Fitted easily on 2 axis Nutstop/Torsion bar or up to 8 axis Synchro.

Powerful, easy graphical diagnostics. AC motor Acme screw or AC Servo ballscrew back stops.

By fitting the Fasfold CNC touchscreen controller to your press brake you will be able to:

Setup jobs faster & easier using less skilled labour, increase efficiency & win more jobs, making less mistakes, errors and reduce waste outperforming your competition.

To complete the retrofit of your machine we offer a full range of safety guards for press brakes.



## Shear Blades

### Shear Blades

We stock or have access to shear blades from most of the manufacturers

ERMAK, HACO, Atlantic, Durma, Baykal, LVD, Cincinnati, Pearson, Promecan, Allsteel, Wysong, Accurshear.

For less popular machines, with accurate blade information, we can produce the blades.

Our trained service technicians are available to remove and re-install shear blades or perform a blade turn on your machine.

