

ff The Technology Behind The Future

Today; the easiest, fastest, and most precise bending and cutting processes are achieved with CNC machines. Weinbrenner had been considered on Premium Segment and take center as Quality, Productivity, Flexibility and Precision on its product range since 1954. In addition to all these, latest Weinbrenner products offer energy efficiency, higher speeds, energy efficiency and sustainability as of 2023 with development of new technologies. Since the foundation of Weinbrenner, first place always were technical progress, quality and economic efficiency. During the first years, the production of the company primarily was special bending machines. In the light of technological developments in sheet metal processing industry, Weinbrenner Maschinenbau GmbH come to stay and assured his position on the international market. Automation Systems for both bending and cutting processes will make an impression on the market.

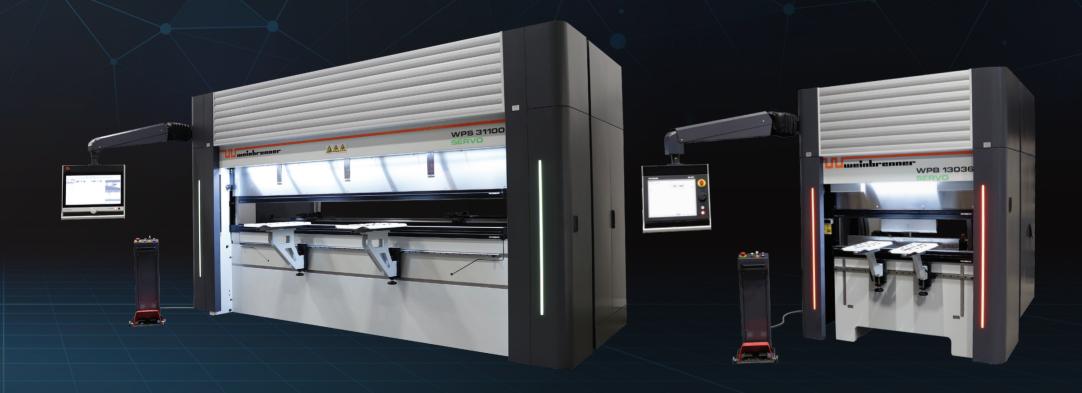
HYBRID PRESS BRAKE







WPBELECTRIC PRESS BRAKE



6 Reasons to buy a Weinbrenner

THE POWER ON WHEN YOU NEED IT

EXTREME PRECISION AND REPEATABILITY

LESS MAINTENANCE, LESS WASTE, SAVES COSTS

FAST RETURN
ON INVESTMENTS

MORE SPEED,
FASTER PROCESSING

SAME JOB, LESS ENERGY

BENDING & AUTOMATION TECHNOLOGIES

	WPH	WPS	WPB
Drive Technology	Hybrid	Belt&Pulley	Ball Screw
Frame Design Structure	O Frame	O Frame	C Frame
Capacity	110-200 Tons	40-130 Tons	20-36 Tons
Bending Length	3060 mm	1530-3050 mm	900-1300 mm
Accuracy Y axis	± 0.01 mm	± 0.01 mm	± 0.01 mm
Approach Speed (Max.)	200 mm/s	170 mm/s *	150 mm/s
Daylight Opening (Max.)	690	590	430
Stroke (Max.)	350	300	150

^{* 170} mm/s Approach Speed is on WPS 15040 Model only





The experts at Weinbrenner understand that high speed, flexibility, accuracy, energy efficiency and automation with durability and highest quality are the most important customer requirements in modern machine tool manufacturing Weinbrenner response to these facts with its newly designed high quality machines and automation systems.

MPH HYBRID PRESS BRAKE

30% Higher productivity

Effective production for Optimum Results

Hybrid Drive System

Ultra High Reliability and Increased

Efficiency

weinbrenne

70 % Less Oil Consumption
Reduced Tank Volume
, Consumes When Runs

110 to 200 Tons
Strong and Extremely Fast

Full Working Length
Freedom Inside The Machine

3100mm Bending Length
O Type Body Frame

Advanced Clamping & Backgauge
Efficient Bending for Complex Parts

Hydro Mechanic Crowing
Premium Parts Quality

WPH 31150

Hybrid Drive System

Hybrid drive system combines servo motor with high efficiency pumps providing high speed ram movement and great accurate ram repeatability This state of the art design offers quick setup, high speed operation, and increased throughput.

■ Ultra High Precision

Two Independent servo motors drive higher precision and efficiency. Brushless servo motors, that are quick and precise, are directly connected to two small oil tanks.



ADVANTAGES OF

WPH SERIES

- Improved Productivity Up to
- Superior Accuracy (±0.01)
- Improved Energy Efficiency
- Custom Daylight & Stroke
- Greatly Reduced Tank Volume Minimum Risk of Leakage

- Rigid Frame Design
- Cost Effective & Quiet

■ Faster Production

Compared with standard hydraulic press brakes, Hybrids can easily reach 200 mm/s movement speeds. Extremely fast approach, bending and return speeds provide faster cycle times and enhance performance with more parts per hour.



Less Consumption & Environmental Impact

Less energy and oil consumption in average compared to the Standard Hydraulic Press Brakes. In a traditional hydraulic press, a big pump is continually active, even if the machine is working or not. Thus there is high and ineffective energy and extra heat distribution..

Silent Working

As servo motor and pump assembled inside the tank with compact design of hydraulic system, 13% more silent work achieved.



■ Belt&Pulley Drive System

The belt and pulley drive system works with two synchronized servo motors which transfer the force to the upper beam from belt and pulley movements During the movement of the upper beam, servo motors coil the belt to the main pulley and apply the bending force with even distribution of tonnage across the entire bed length.

Faster Production

- Less energy consumption and less material waste = Less CO2
- 60% less energy consumption in average compare to the traditional Hydraulic Press Brakes
- High energy saving



ADVANTAGES OF WPS SERIES

High Accuracy and Efficiency • O Type Frame Design

Low Energy Consumption

- **Low Operation Cost**
- **Maximum Functionality**

- Optimum Bending Results
- No Maintenance & No Cylinder
- No Hydraulics and Hydraulic Oil

■ The Best Productivity and Efficiency

- High efficiency = Less machine usage for the same production volume
- 30 % less processing time in average and short installation time
- Easy programming and high precision = less material waste



Flexibility and Part Quality

- There is no limitation of throat gap for the long parts
- O Type body design, and highly repeatable precision thanks to servo electrical drivers and different tool systems
- Servo motor drives offer superior movement control to produce best parts.

Low Maintenance Cost

- No hydraulic oil = no damaging waste
- Compare to the Hydraulic machines, there are less precious and critical parts
- · Easiness of cooling
- Operational Safety

MEB ELECTRIC PRESS BRAGE

Ball Screw Mechanism
The Best Productivity for Smal Parts

WPB 13036

weinbrenner

5 -1:

20 and 36 Tons
Strong Enough for Small Parts

900 and 1300 mm
Bending Length
Robust C type Frame

Up To 50% Energy Saving, Low Co2 Emissions Effective in all ways

Noiseless Operation
Operator Comfort

No Harmful Hydraulic Oil
Environment friendly

More Than 30% Higher productivity

Effective production for Optimum Results

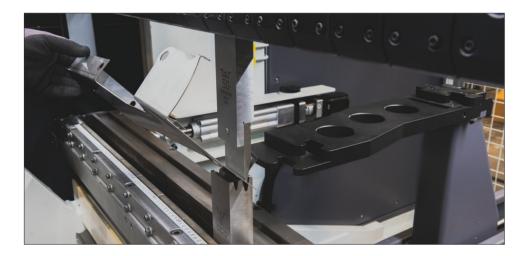
Small Foot Print
Maximumum Power on Minimum Space

Ball Screw Drive System

WPB Series offers maximum efficiency and reliability with maximum acceleration and precision. The high capacity ball-screws have larger diameter with higher quantity. There are no deflections on the ball screw while applying force.

■ The Best Productivity and Efficiency

- High efficiency = Less machine usage for the same production volume
- 30 % less processing time in average and short installation time
- Easy programming and high precision = less material waste



ADVANTAGES OF WPB SERIES

- High Accuracy and Efficiency
- Low Energy Consumption
- Low Operation Cost
- Minimum floor space is required

- High Precision Ball-Screw Drive
- High reliability
- No Maintenance and No Cylinder
- No Hydraulics and Hydraulic Oil

■ Compact and Energy Saving

- Thanks to its small foot print for space saving
- Less energy consumption and less material waste = Less CO2
- Power consumption is reduced by around 50% compared with conventional press brake



■ Low Maintenance Cost

Weinbrenner WPB Series don't use any hydraulic systems, so exclude all possible oil leaks and reduce need for periodic maintenance. The system offers both sustainability, less maintenance and no oil to purchase.

■ Strong Enough for Small Parts

Using unique and high quality components the speeds in WPB Series are higher compared to other electric press brakes. Thanks to the ergonomic frame design, the operator works in a comfortable position, the machine allows to bend more parts in less time.

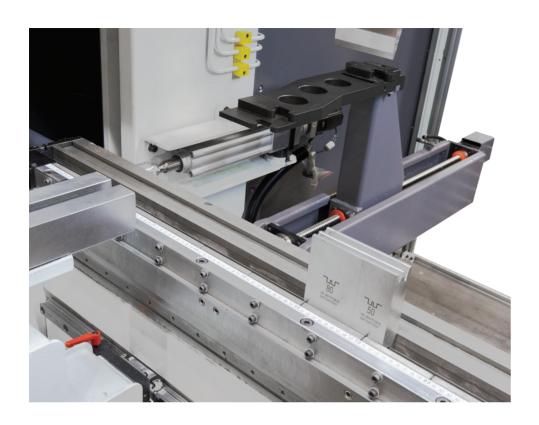




ADVANCED SOLUTIONS TO ESSENTIALLY ALL REQUIREMENTS

Unique designed structure of Weinbrenner machines provides Advanced Solutions to its customers. Unrivalled clamping system, sophisticated tool shifting, innovative back gauge systems and many more solutions are developed with a years of experience.

Numerous options ensure that your Weinbrenner Machines completely matches your requirements. The most important benefits of Weinbrenner Press Brakes are parts quality, productivity, ergonomics, diversity, easy programming, clamping and tooling options.



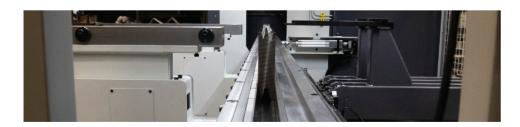
Hydro-Mechanic Crowning System



The crowning-construction balances the elastic deformation of the bedplate and the crosshead of the Press. Calculation an automatic setup occurs by the CNC. Automatic calculation and positioning of the crowning depend on the pressure surface and the bending position.

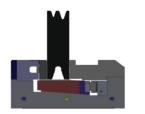
* Optional on WPH Series || ** N/A on WPS / WPB Series

■ The System: Weinbrenner Style Lower Table



Weinbrenner Hybrid Press Brakes have the most unique designed lower table construction for maximum accuracy and highest quality solutions. Weinbrenner Style Lower Table can be restored after several years of operation with top performance.

Lower Tool Shifting







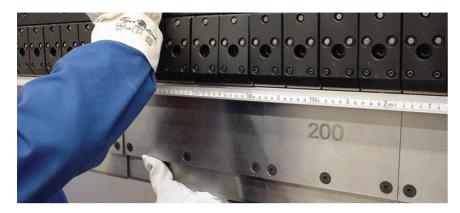


Bending and flattening in a single process, for different thicknesses without setup changes. In this way an easy replacement of the tools is guaranteed. The biggest advantage of this design allows bending and flattening in a single process.

Optional on WPH Series || ** N/A on WPS / WPB Series

* Optional on WPH Series || ** N/A on WPS / WPB Series

Hydraulic Top Clamping



Weinbrenner style hydraulic top tool clamping is very unique system, which allows quick setup change of tools. Very precise, automatic tool centering. Rigid construction of this system is extremely resistant.

* Optional on WPH Series || ** N/A on WPS / WPB Series

Hydraulic Bottom Clamping



Exclusive bottom tool clamping system allows quick removal of tools. It has very precise holding and automatic tool centering.

* Optional on WPH Series || ** N/A on WPS / WPB Series



Weinbrenner Style Tooling



You can choose in a comprehensive assortment of simple and precise punches and multi-channel dies. Weinbrenner Style tools are Induction hardened of all surfaces, for different thicknesses without setup changes. The rigid construction of machines gives tools extremely resistant for several years of usage.

* Optional on WPH Series || ** N/A on WPS / WPB Series



■ Manuel Top Clamping



Frontal introduction and extraction of the European-type standard tool and automatic return at the stop.

* Optional on WPS / WPB Series

	Prome	Promecam (Not Available in WPH)			Wila Pro Clamping		Wila Premium Clamping	
	Manual	Pneumatic	Hydraulic *	Pneumatic	Hydraulic *	Pneumatic	Hydraulic *	
Top Clamping								
Bottom Clamping	N/A	N/A	N/A					
	* Hyd	* Hydraulic Power Pack is Required			** CNC Cro	wning is Standard		

Wila Hydraulic/ Pneumatic Clamping Systems





WILA's state-of-the-art Clamping and Crowning systems offer the ultimate solution when it comes to efficiently changing tools - both hydraulically and mechanically. Tool Holders available with Hydraulic Clamping (HC), Pneumatic Clamping (SL) or Manual Clamping (MC) and suitable with Safety-Click®, the Smart Tool Locator.

Optional on WPS / WPB Series

Hydraulic/Pneumatic Clamping



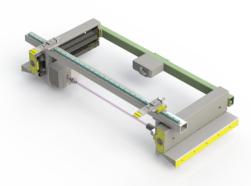
Hydraulic or Pneumatic upper fast clamping system with front clamp for Promecam tools, 150mm length, Max. load 1000 kN/m

Optional on WPS / WPB Series

■ Weinbrenner Backgauge Range

Weinbrenner supplies a full range of backgauge systems to meet all requirements, encompassing all press sizes and degrees of complexity of the parts. Press Brakes are used for variety of applications and Weinbrenner presents advanced backgauge systems with up to 6 CNC-Controlled axes are available. All electric drives are designed in maintenance free AC technology.

2 Axis Backgauge X + R



X and R axes are in standard configuration of Weinbrenner Electric Press Brakes. Travel on ballscrew spindles from DC-motor driven mechanism.

* Standard on WPS / WPB Series || ** N/A on WPH Series

5 Axis Backgauge X1+X2+R+Z1+Z2



This exclusive Backgauge solution has additional X2 axis for sheets with angled bending lines. Easy correction of both gauge positions in X direction.

* Standard on WPH Series || ** N/A on WPS / WPB Series

4 Axis Backgauge X+R+Z1+Z2



Weinbrenner offer the distinct flexibility of Z1 and Z2. Suitable for bending parts with various lengths.

* Optional on WPS Series / WPB 13036 || **N/A on WPB 09020

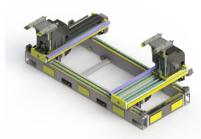
■ 5 Axis Backgauge X+R+X5+Z1+Z2



This superb system ensures one of the best solution. Suitable for non-parallel bending lines.

* Optional on WPS Series || **N/A on WPB / WPH Series

6 Axis Backgauge X1+R1+Z1+X2+R2+Z2



The most advanced backgauge solution also called "Independent Type Backauge".

* Optional on WPS / WPH Series. || **N/A on WPB Series

Wide Range of CNC Controllers



All Weinbrenner Press Brakes can be equipped with advanced CNC controllers. Highly effective CNC controllers optimize the machine cycle and minimize set-up time. These controllers make using press brakes easier, more efficient and more functional.

CNC Controllers are very easy to use and can be programmed quickly and accurately. Additionally 2D or 3D bending simulator and offline software solutions are available.

Offline programming offers several ways to design and to import and correctly produce 2D or 3D drawings.









Features	Esa S 875W 2D	Delem DA-66S	Delem DA-69S	VisiTouch Pac
Screen	21.5" LCD Full HD	24" TFT, High Brightness	24" TFT, High Brightness	18.5" Glass Touch Screen
Resolution	1920 x 1080 pixels	1920 x 1080 pixels	1920 x 1080 pixels	1366 x 768 pixels
2D Programming/View	•			
3D Graphic View	•			
3D Programming		N/A		
Auto Tool Selection	•			
Auto Bend. Sequence	2D/3D	2D	2D/3D	2D
2D DXF Import	•			
2D DXF Export				
3D IGES/STEP Import		N/A		
Offline Software	(EsaBend 3D)	(Profile-SL)	(Profile-S3D)	(VisiTouch Offline)

Standard	
Optional	









■ Laser Safe Laser Finger Protection



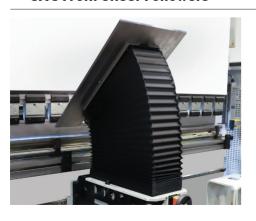
Laser Safe products provide an efficient and cost effective platform with fewer components, reduced wiring, simplified interface and CE Certified hardware and software to minimize engineering and build time.

Fiessler Laser Finger Protection



The components are CE type tested (c)UL listed and comply with further national and international standards. Innovative finger guarding system for press brakes by following laser optical safety light grids in front of the tool.

CNC Front Sheet Followers



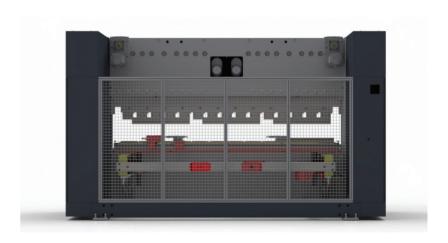
Support the workpiece during the bending with CNC automatic calculation. Available weight of 125 to 250 Kg. Bending aids available in front and rear of the machines

■ Manuel Height Adjustable Support Arms



Weinbrenner Press Brakes offers newly designed Manuel Height Adjustable Support Arms. The mechanism equipped with a reducer and rack-pinion to adjust height easily.

■ Metal Fence Door System



Metal Fence Door System prevents operator injuries and with the help of its window, operator can see inside during maintenance and operation.

ROBOTIC BENDING APPLICATIONS





HMI Interface





Robotic Bending Application provides a comprehensive set of tools for creating and maintaining an accurate bend database. The database can be shared with CAD system and CNC press brake controls for consistency and ease of maintenance.

All control can be done through a single interface. Maintenance status, current information and errors of the machine can be easily monitored and transferred to the operator.

MAXIMIZING PROFITIBILITY

Weinbrenner is continuously developing new solutions and machines to share its 70 years of knowledge and experience with customers. It is very important that our customers' machines are continuously running with maximum performance, so they can deliver products within lead times. Robotic Systems reduce cycle times and bend with minimal manual effort. The continuously high quality production is possible with automation systems and saves from wrong parts.

Robotic applications minimize and eliminate losses during manual bending processes and provide maximum productivity. Robotic arm uses special grippers to hold and fix the parts during bending processes.

These advanced systems equipped with several sensors to ensure reliable material handling with consistent quality.

Beckhoff Robotic Cell Control System



In the Automatic Bending Cell, the program instructions are executed by the Industrial computer. It is responsible for the control of the entire processing cycle. The machining program for the Automatic Cell is run by the robot controller and this controller is responsible for correct execution of the entire program by controlling the program cycle. This advanced system allows to edit bending tools, clamping systems and other functions.







Weinbrenner

Weinbrenner Maschinenbau GmbH

Ernst-Frenzel Strasse 1 93083 Obertraubling Germany +49 (0) 7033 538-30 +49 (0) 9401 9611-30 marketing@weinbrenner-maschinenbau.de www.weinbrenner-maschinenbau.de

