

EB 30 Professional E  
EB 40 Professional E

*5 x Faster than Standard Bending Machines  
70% Energy saving  
100% Maintenance free*



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**EHRT**

Bending Machines  
Professional Line

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# EHRT Bending Machines Professional Line - Advantages

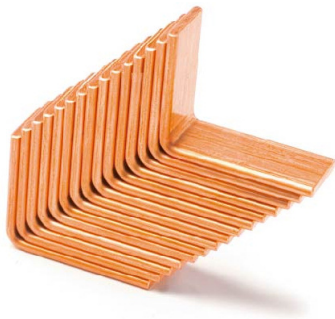
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The **EHRT Bending Machines of the Professional Line** are made for high loads. Long wear and unrivalled accuracy characterize these machines.

At 70% energy saving compared to the same hydraulic variant these machines are highly interesting for high loads in industrial applications. Further more they are maintenance-free and quiet. The manual greasing is eliminated by automatic lubrication.

Those machines are exceedingly powerful CNC bending machines with spring back compensation. they are able to bend single pieces as well as small batches with the same precision and efficiency as series-produced parts.

A bending accuracy of +/- 0.2° starting from the first work piece is achieved due to calcula-



ted spring back compensation and the use of electronic tools.

The latest Servo Electric version supports an operation speed of up to 50 mm/s. Tools are changed quickly by using the simple plug-in system.

### Work Pieces

With a bending force of up to 400 kN, the EHRT Bending Machines of the Professional Line are able to bend materials of to 200x20mm (copper).

The drive screw is located under the working face to allow a maximum amount of work space. Special bending tools render even complex bends possible.



### CNC Side Stop

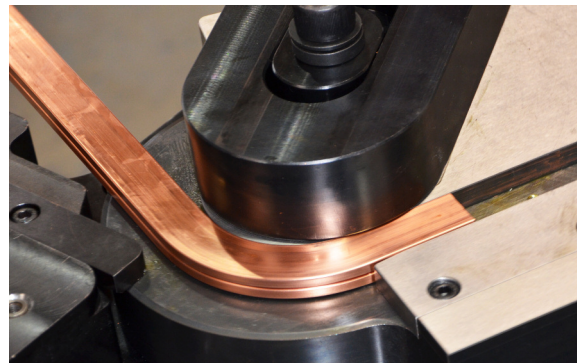
The Professional Lines feature a CNC side stop with a traverse path of approximately 2000 mm. Additional extensions are available on request. The bending software PowerBend



accurately calculates the flat length as well as the stop position and transfers the results directly to the CNC control unit. High production accuracy is assured.

### On-Going Development

This line was developed by incorporating many customer requests plus our own 50 years of experience in the bending machine industry. This machines are our most ergonomic machines to date.



Swing Folding Tool

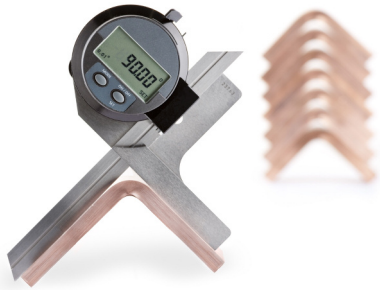
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# Biegearten

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## Angular Measurement

Our measuring accuracy is 0.1°. This is attained by using bending prisms with electronic angular measurement technology. The computer then calculates the required final stroke. The spring back of every bend is compensated regardless of material type. Our high angle accuracy of +/- 0.2° is achieved instantly with the first work piece. No adjustments are required. Material waste amounts will drop considerably. Even inconsistencies within a single piece of material are automatically adjusted.



## Stroke Measurement

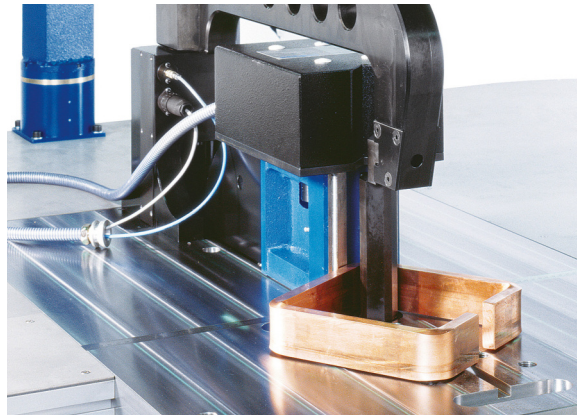
If the bending prisms with integrated angular measurement cannot be used due to their size, bending prisms without angular measurements can be used. Perhaps the distance between two bends is too short. In such cases the control unit can be switched from angular to stroke measurement. This method allows the selection of the bending ram distance. Setting accuracy is +/- 0.1mm. A final stroke is usually not required.

## Angle Specification by Stroke Curve

The stroke system also enables the user to specify an angle from which the stroke is calculated by using stored stroke functions. Bending accuracy in that case is dependent upon material properties such as thickness, hardness, etc. These properties may differ from one piece of material to another.

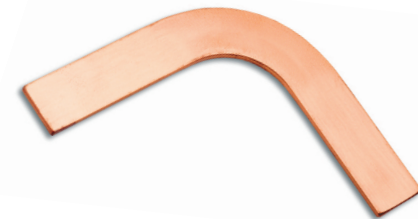
## U-Bending System

For tight and narrow U-bends, the bending tool can be turned around and moves toward the operator. The stroke movement is then performed by the bending prism. Bends with openings from 40 mm and an accuracy of 0.2° are possible.



## Edgewise Bending

Special bending tools that include electronic angular measurement allow a high bending accuracy even when bending on edge is required.



## Torsion Bending

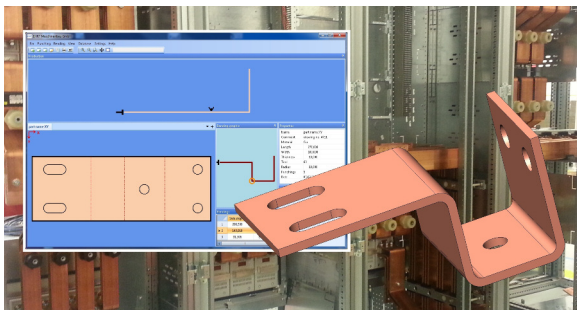
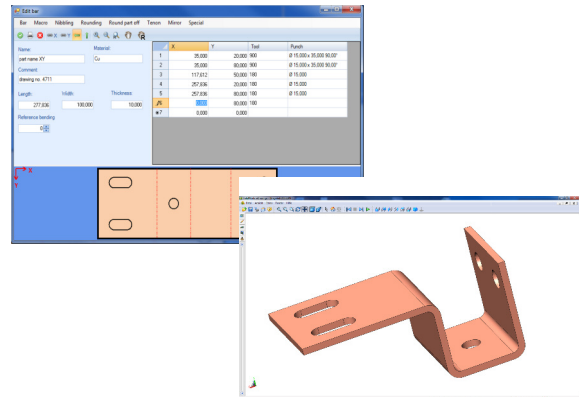
In torsion bending the workpiece is rotated on the longitudinal axis. This way the surfaces of workpieces up to a width of 5 inches are accurately and precisely repositioned, thus making innovative constructions possible.



# Biege-Software PowerBend

## Easy Handling

The Microsoft Windows® based software, PowerBend, is easy to learn since there are no CNC programming skills required. All necessary inputs are prompted and displayed on the screen. Inputs can be corrected at any time and minimum distances are checked instantly to guard against improper inputs. The operator is allowed to use outside, inside, center line, and radius dimensions. Software can be switched between mm and inches.

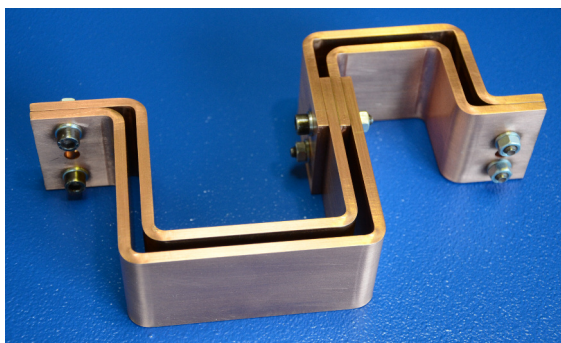


## Program Storage

The program for each work piece can be stored as alphanumeric names up to 24 digits. The database allows storage of more than 200,000 different parts which can be located easily using the search and sort options. Networking with other EHRT machines and external workstation is easy. Parts can be programmed externally and quickly transferred which increases the overall productivity of the machine.

## Calculated Values

The PowerBend software automatically calculates the flat length of each part being bent and determines the exact position of the side stop. Up to 15 bends can be calculated for one work piece.



## Networking

It is possible to network with other EHRT machines and offline work stations. A simple transfer of parts programmed offline increases the productivity of the machine.

## Software Languages

German, English, Russian, French.  
Other languages on request.



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## Technical Datas EHRT Bending Machines Professional Line

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	<b>EB 30 Professional E</b>	<b>EB 40 Professional E</b>
Press Capacity	300 kN	400 kN
Stroke max.	200 mm; 8,0 Inch	
Workpieces (e.g. Cu)		
flat	max. 160 x 20 mm	max. 200 x 20 mm
upright	max. 120 x 10 mm	max. 160 x 10 mm
torsion	max. 125 x 10 mm	
Bending System	Servo Electric	
Bending Accuracy	0,2°	
Rapid Movement	50 mm/s; 2,0 Inch/s	
Inching	10 mm/s; 0,4 Inch/s	
Stroke	max. 200 mm	
Return Stroke	adjustable	
Working Height	975 mm; 38 Inch	
Electrical Standards	according to VDE	
Electrical Connected Load	20 kW	
Side Stop	digital DC servomotor with recirculating ball screw	
Control Unit	industrial PC running Windows XP or higher	
Software	PowerBend; Calculation of the developed length for up to 15 bends; Storage for more than 200.000 parts	
Network-Compatible	Yes	
Finishing	RAL 5010 Gentian Blue; Doors and Coverings RAL 7035 Light Grey	
Safety Installations	All danger zones are secured according to CE standards (Cat 2)	

*Subject to change without prior notice*

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