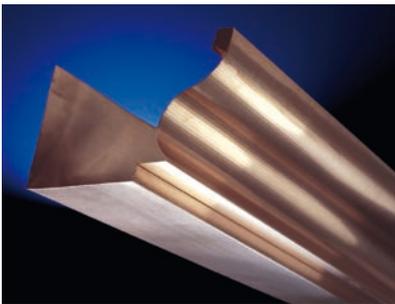


TURBObend



TURBObend

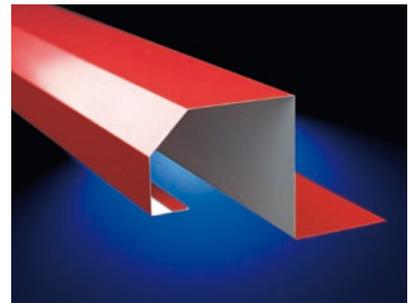
Perfectly suited for all roof and architectural profiles!



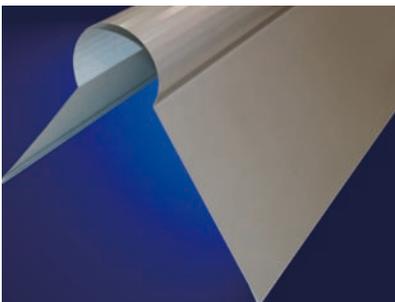
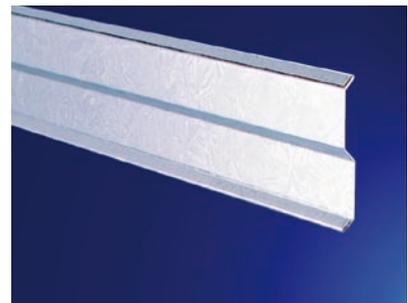
Designed for the roofing, architectural and metal construction markets, the TURBObend is revolutionary for its technology and high speed axis movement. Many users refer to it as the most advanced, easy to use and most accurate folding machine they have ever used.



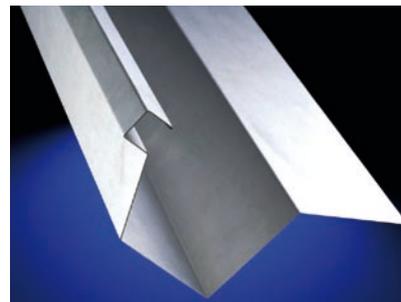
Machine components are engineered using Finite Element Analysis resulting in incomparable folding accuracy. A quick look at the deep folding beam and you see why the bends are incredibly straight and accurate.



When material thickness changes, the machine adjusts automatically. The correct folding beam adjustments offer significantly better folding results and longer machine tool life.



Do not compromise. Ultimately you earn your money with quality metal parts!



TURBObend



Compact gauging system

Backgauge and sheet support system

The backgauge positions the workpiece for the precise flange dimension, and the sheet support system holds the weight of the sheet so the operator doesn't have to. Even with the sheet support system, the footprint of the machine is the smallest in the industry.

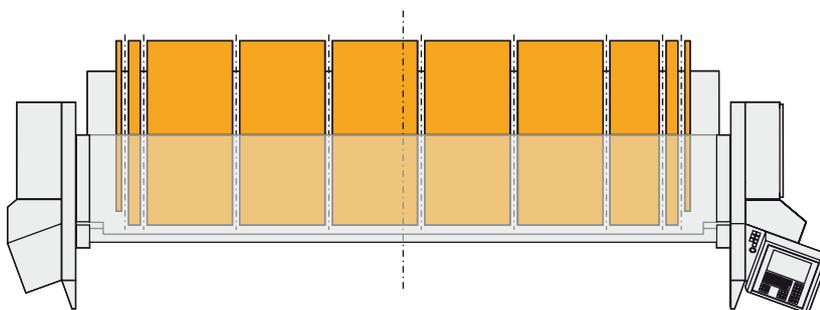
Each stop finger unit comes with a front and a rear stop finger. A servo-motor positions the part to any dimension in under two seconds. The stop fingers automatically drop down below the table surface when part rotation is required.



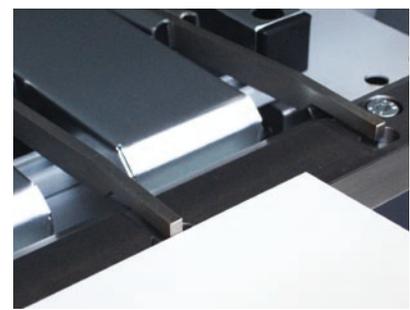
Front stop finger



Rear stop finger



Standard gauging system



Finger pocket in lower beam for minimum stop dimensions

TURBObend

Prepare for the future!



With its small footprint, the TURBObend will fit in the smallest workshop.

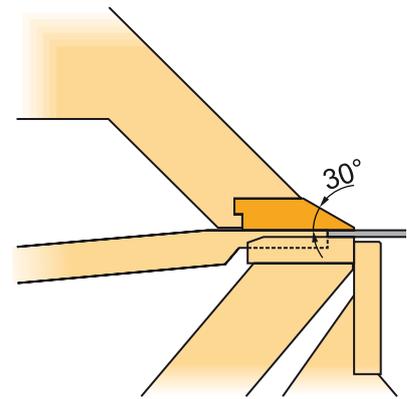
Ergonomics

The TURBObend is human-engineered and ergonomically designed. The location of the Touch&More control gives the operator a perfect angle to see the screen, even when he is working from the center of the machine.

Upper Beam

Incorporated with motion control technology, fast upper beam movement and high clamping pressure make for a perfect combination. The TURBObend allows you to produce hems to the perfect dimension. The speed of a machine is crucial when you need to know how quickly the equipment will pay for itself. The upper beam closes from 120 mm (4.7") in a fast 1.8 seconds.

A single, universal 30 degree sharp tool offers ample free space that is required for even the most complex roofing, architectural and metal construction parts. For aluminum and zinc blanks, RAS offers optional radius tools.



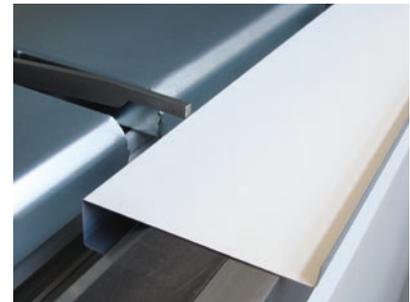
Upper beam with generous free space around the tool.

Lower Beam

The lower beam is designed with a deep box configuration. In addition, it is directly locked to the side frame for a tremendously rigid unibody design. This virtually eliminates deflection and torsion. This designed rigidity results in extremely accurate parts!



The innovative eccentric elbow pivot and drive shaft for fast upper beam movement.



Sheet support panels can be pulled back, when parts require free space behind the lower beam tool.

TURBObend

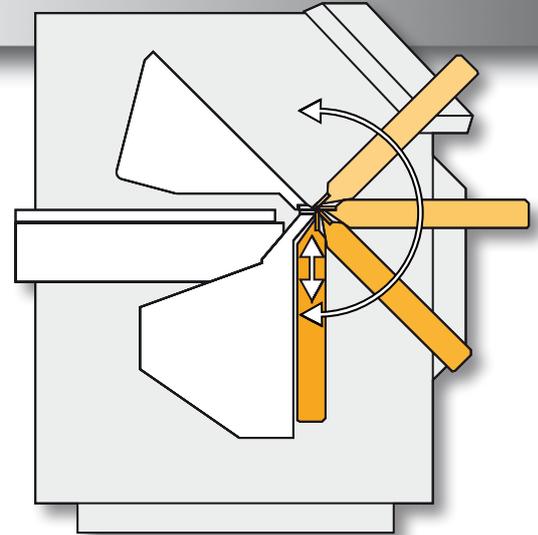
Folding Beam

Optimized for maximum rigidity, the TURBObend folding beam guarantees precise and accurate parts. The folding beam's dynamic movements ensure extremely high level productivity. The TURBObend boosts your production and produces exactly the precise and repeatable angles that you expect.

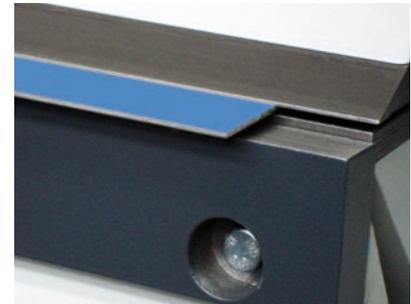
Automatic Folding Beam Adjustment

Do you want to point the way to the future of your workshop when buying a CNC-controlled machine? RAS uses a patented system that gives a completely new outlook to material thickness adjustment. The TURBObend adjusts the folding beam for different material thicknesses in less than 10 seconds.

As the folding beam of the RAS TURBObend moves not only up and down, but also in and out, you can bend up to 1.2 mm (18 gauge) material using the 10 mm (0.39") folding beam tool. For maximum capacity the 20 mm (0.78") wide tool is included.



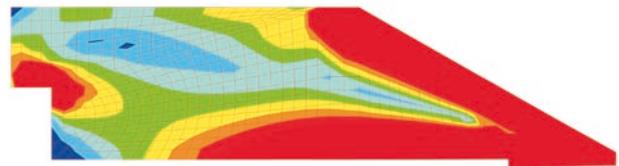
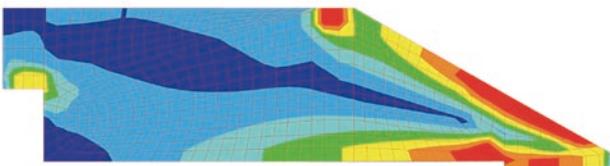
The folding beam reaches its position with a 0.1 degree accuracy.



Folding beam adjustment for light gauge and heavier gauge material.

Accurate and repeatable bend results no longer depend on whether the operator has adjusted the machine for the correct material thickness. Because the correct settings result in less

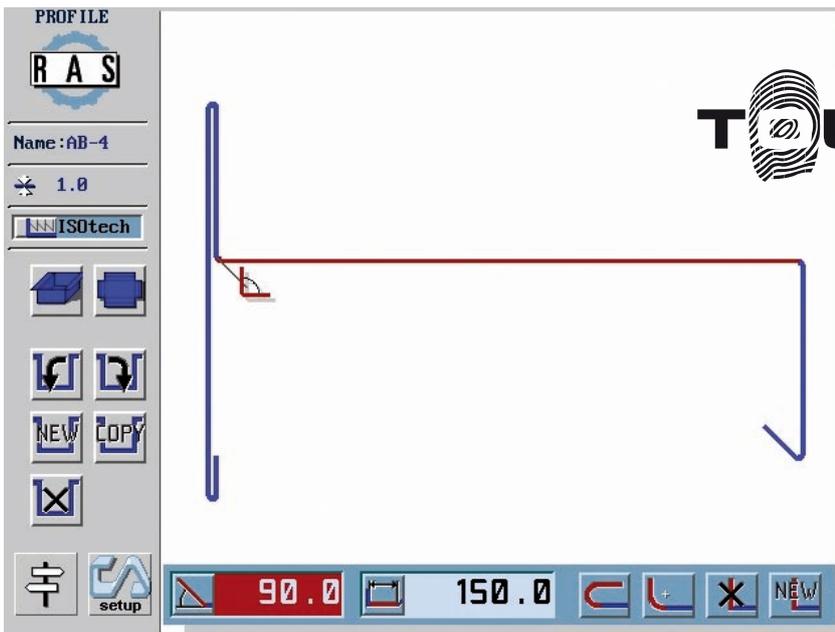
stress, the machine lifetime will be extended by many years. Be honest: Who wants to use old-fashioned hand wheels in today's computerized world?



Stress on upper beam tool with correct (left) and incorrect (right) folding beam adjustment.

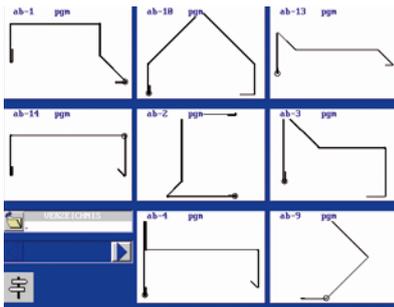
TURBObend

Automatic programming

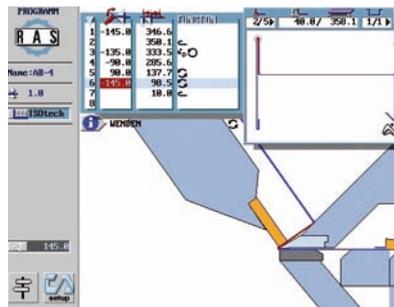


Pictures become Parts!

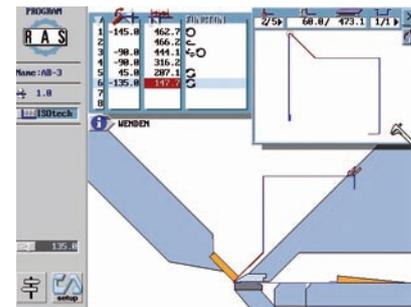
Using the Touch&More control, your finger is all you need to program a part. Simply paint a flange and size it to the right dimension and angle.



Locate a part program stored in the RAM or on USB memory visually in the easy to use program library. To create a part icon the Touch&More offers a photo function.



The CADalyzer calculates several folding sequences and for most parts automatically creates a program. The simulation shows the program, the finished part and the actual bend sequence.

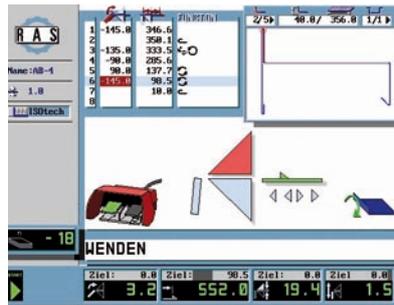


If a collision has been detected, the control displays this situation graphically. Standard RAS technology tables take into account material springback. The calculated blank dimensions are automatically corrected by the bend allowance used for the radii.

TURBObend



Program storage in the RAM or on USB memory.



After the program is started, the graphic shows the operator which foot pedal to press. Operator instructions such as “Flip” or “Paint up” allow even inexperienced operators to produce perfect parts.



If someone only operates the machine occasionally, they can use the EasyGo operation. Simply enter an angle, a back-stop dimension and the material thickness and you are ready to go. If you want to bend “by eye” just press the push buttons in the Special menu and start each machine movement separately.



TURBObend



Folding system

Technical Data	RAS 61.31	
Sheet Thickness max. (Mild Steel)	1.5 mm	16 ga.
Working Length	3150 mm	124"
Backgauge Depth	6 – 1000 mm	0.24" – 40"
Backgauge Accuracy	+/- 0.15 mm	+/- 0.006"
Upper Beam Open Height max.	120 mm	4.725"
CNC Folding Beam Adjustment max.	5.5 mm	0.2"
Working Height	850 mm	33.5"
Machine Length	4320 mm	170.0"
Machine Width	1400 mm	55.1"
Machine Height	1380 mm	54.3"
Machine Weight about	2500 kg	5.500 lbs.
Air Pressure	5.5 bar	73 PSI
Drive Power total	3 kW	4 hp
Speeds		
Upper Beam Clamping Speed	66 mm/s	2.6"/sec
Folding Beam Speed max.	80 Grad/s	80 deg/sec
Backgauge Speed 6 – 1000 mm	1.9 s	1.9 sec

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