

SHEET METAL FOLDING MACHINES

- » Up and down bending machines models SB
- » Up and down bending machines models DB
- » Long Length Folding machines models EB

VARIOBEND – THE COMPANY

Variobend AG offers three elegant solutions for manufacturers that need to bend sheet metal.

Variobend Range as follows:

- » **Up and down bending machines models SB**
- » **Up and down bending machines models DB**
- » **Long Length Folding machines models EB**

Variobend machines offer unprecedented efficiency for metal roofing companies and general sheet metal manufacturers alike. Driven by a passion to innovate and bring double bending capability to not only large, but also medium and small manufacturers, the engineers at Variobend developed and patented a unique bending system. This system not only offers flexibility and dramatically reduced material handling but is also capable of bending profiles not previously possible.

Production is based in Austria. A short drive from Salzburg. With precision and attention to detail, all Variobend machines have been beautifully designed and constructed and continue to evolve with close consultation of both present and future clients. Once you see the quality, versatility and outstanding technical design you will understand why no other machine can match Variobend on a performance to price ratio.



» **Variobend SB technology offers outstanding performance to price ratio.**



Modell	SB 4.1,00	SB 4.1,50
Working length	4.100 mm	4.100 mm
Bending capacity		
Steel 400 N/mm	1.00 mm	1.50 mm
V2A 600 N/mm	0.60 mm	0.80 mm
Alu 190 N/mm	1.50 mm	2.00 mm
Max. bending angle	150°	150°
Speed of clamping beam	50-75 mm/sec	50-75 mm/sec
Speed of bending beam	approx. 100° / sec	approx. 100° / sec
Total dimension L x W x H	4.900 x 1.860 x 2.000 mm	4.900 x 1.860 x 2.000 mm
Weight	6.000 kg	6.500 kg

VARIOBEND BENDING MACHINES

Profiles are becoming more complex, often with profiles requiring bends in both directions.

Variobend models SB accommodate these complex bends easily with minimum material handling. The model SB has both upper and lower bending beams, the Touch Screen CNC automatically activates the appropriate direction of bend. The operator wasting time turning and flipping the sheet will become a thing of the past.

Existing Variobend users quote a minimum doubling of productivity on most profiles and in many cases as much as quadrupling output compared to conventional folders or brake presses. This increased output is often compounded by the fact only often one operator is necessary where there were two previously.

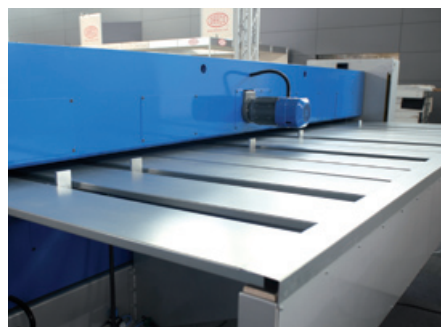
Powerful speed controlled motors guarantee dynamic and fast movements of the clamping and bending beams. The high speed motors combined with clever ramp up and ramp down technology minimise cycle times to levels not previously thought possible. Infra red light curtains ensure safety.



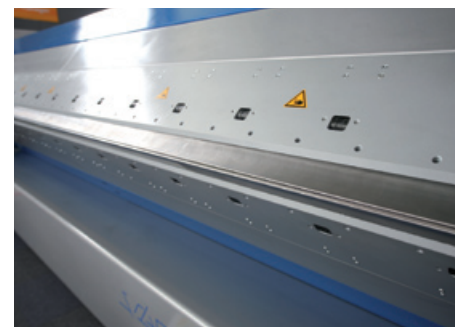
Model SB 4.1,50



The Variobend touch screen control enable the fast and easy input of new profiles as well as a library of standard profiles.



High speed back gauge driven by precision ball screws for highest possible repeatability with a range of 5 to 1.600 mm.



Hard and removable segments for both the clamping and bending beam guarantee precision for life. Damaged segments can be replaced.

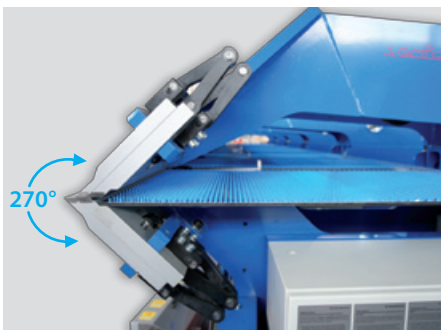
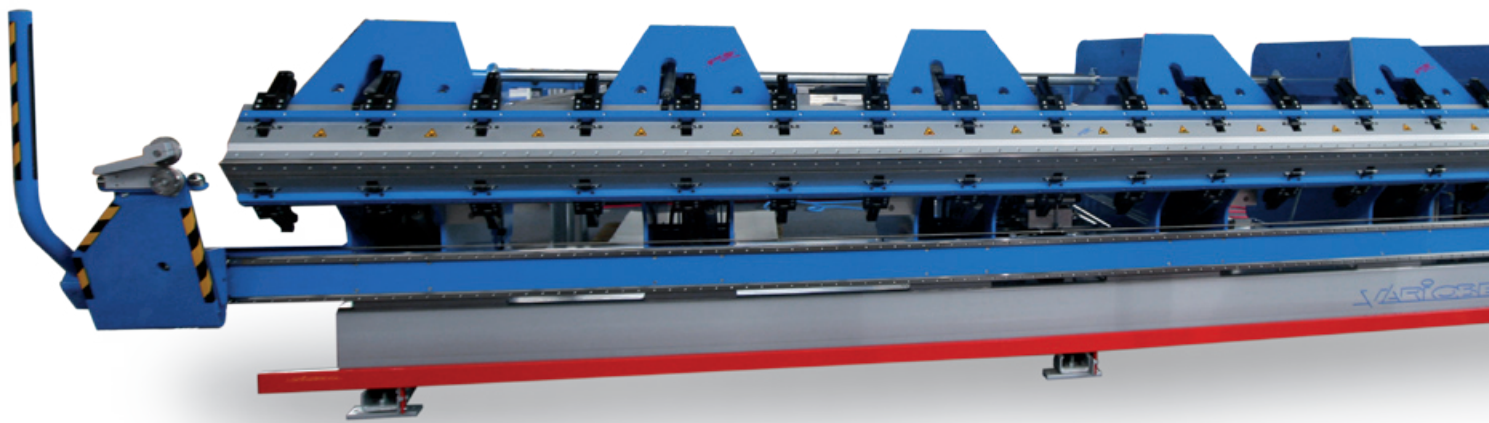
VARIOBEND UP AND DOWN FOLDING MACHINES

The biggest gains in productivity when utilising the Variobend DB are made when bending heavy, long and awkward parts.

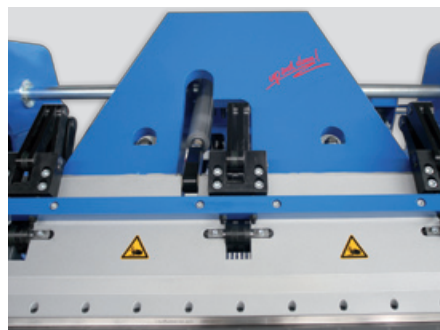
On this type of part a great deal of time is wasted turning and flipping the part. In fact far more time is spent handling than bending. Users of Variobend DB Benders are quoting a minimum doubling and often as much as quadrupling the output on common profiles compared to conventional single bending machines.

» **Variobend DB technology guarantees outstanding clearance and unique profile variety.**

Complementing the productivity improvement gained by elimination of turning and flipping is the advantage that many jobs are reduced from a two man operation to a single man operation.



The Variobend bending beam with unique geometry provides a work envelope of 270 degrees allowing unique profile variety. Brush tables are inclusive.



Hard and removable segments for both the clamping and bending beam guarantee precision for life. Damaged segments can be replaced.

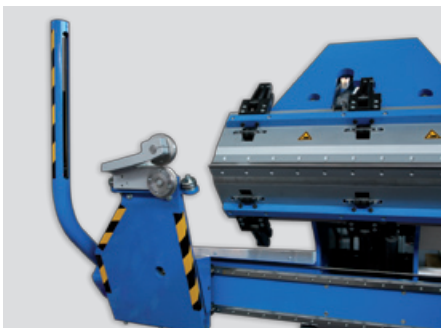


A massive 770 mm opening of clamping beam allows easy turning or flipping of profiles or ability to unroll small coils within the frames of the machine. Only one operator is necessary to turn or flip most of profiles because of this feature.

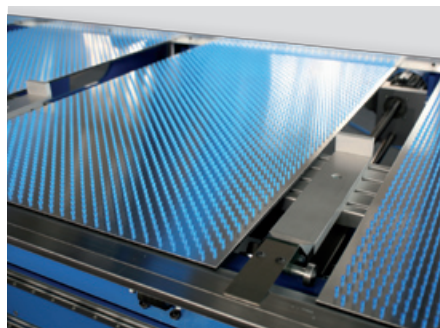


Model DB 6.1,50

Model	DB 6.1,50	DB 8.1,50
Number of stands	6 pcs.	8 pcs.
Working length	6.400 mm	8.640 mm
Bending- / Cutting Capacity		
Steel 400 N/mm	1.50 mm	1.50 mm
V2A 600 N/mm	1.00 mm	1.00 mm
Alu 190 N/mm	2.00 mm	2.00 mm
Max. bending angle	135°	135°
Opening of clamping beam	770 mm	770 mm
Insertion depth	1.000 mm	1.000 mm
Speed of bending beam	0°- 135°- 0° approx 3.5/sec	0°- 135°- 0° approx ca. 4.0/sec
Back gauge range	5- 1.000 mm	5- 1.000 mm
Number of back gauge fingers	8 pcs.	9 pcs.
Motor size	22 kW	22 kW
Total dimension L x W x H	7.400 x 1.850 x 2.000 mm	9.640 x 1.850 x 2.000 mm
Weight	8.650 kg	10.400 kg



The slitting assembly slides on dual linear bearing rails mounted directly on the machine-chassis therefore ensuring a very rigid structure. This innovative solution by Variobend ensures the bending beams are free from any interference. Speed of the slitter is ramped up and down to maximize life of drive cables and ensure smooth operation and long slitter blade life.



High speed back gauge driven by ball screws with a range of 5 to 1.000 mm. The backgauge can manage tapered parts. Maximum taper of +/- 100 mm. The brush tables guarantee a scratch free material handling.



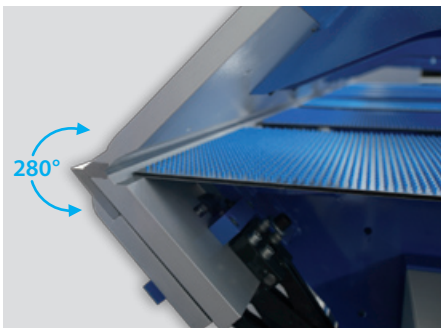
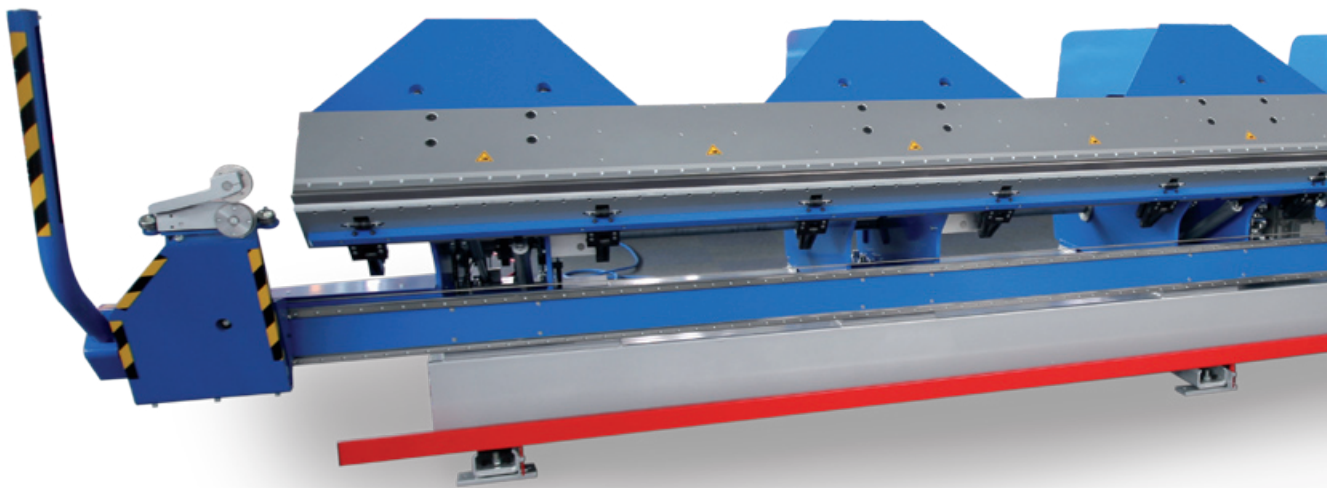
The Variobend touch screen control enable the fast and easy input of new profiles as well as a library of standard profiles. 600 profiles can be stored. By using the Variobend touch screen control the machine can be operated in manual mode as well.

VARIOBEND LONG LENGTH FOLDING MACHINES

Variobend Long Length Folding machines are available in working lengths from 4.0 m – 12.0 m, bending capacities from 1.25 – 2.00 mm (mild steel).

This EB Series is technically unique compared to other Long Folders on the market. Most notably is the geometry of the clamping beam. Specifically the Variobend has a work envelope of 270 degrees, this is notably more than other benders on the market and allows the operator to achieve many profiles otherwise impossible. Further enhancing the Variobend is the torsion bar clamping system that ensures accurate level closing of the clamping beam even under the load of hemming operations. This feature includes an opening height that is infinitely variable via the touch screen control and allows programmable hemming or safety edges. Variobend offers one of the fastest bending, clamping and slitting speeds on the market.

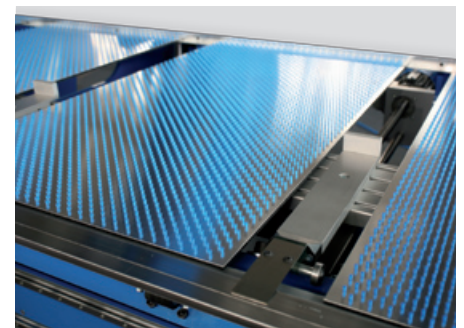
» Variobend Long Length Folding machines offer an unique flexibility and profile variety.



The Variobend bending beam with unique geometry provides a work envelope of 280 degrees allowing unique profile variety. Brush tables are optional.



Hard and removable segments for both the clamping and bending beam guarantee precision for life. Damaged segments can be replaced. This feature is optional.



High speed back gauge driven by ball screws with a range of 5 to 1,000 mm. Optionally the backgauge can be upgraded to manage tapered parts. Maximum taper of +/- 100 mm.

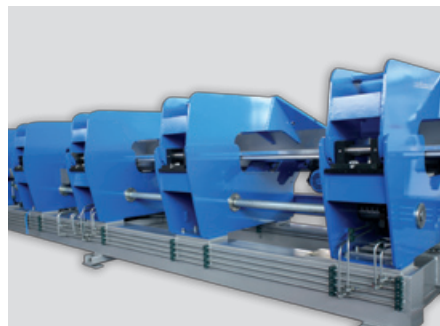
Model	Working length mm	Bending-/Cutting Capacity ST/ AL/ V2A	Working high mm	Insertion depth mm	Total Dimension L x W x H mm	Motor Size kW	Weight kg
EB 4,1,25	4.100	1.25/2.00/0.80	1.000	1.000	5.500 x 1.600 x 2.000	5,5	4.000
EB 4,1,50	4.100	1.50/2.00/1.00	1.000	1.000	5.500 x 1.600 x 2.000	5,5	4.200
EB 6,1,25	6.400	1.25/2.00/0.80	1.000	1.000	7.500 x 1.600 x 2.000	5,5	5.200
EB 6,1,50	6.400	1.50/2.00/1.00	1.000	1.000	7.500 x 1.600 x 2.000	7,5	5.500
EB 8,1,25	8.640	1.25/2.00/0.80	1.000	1.000	9.700 x 1.600 x 2.000	10	7.100
EB 8,1,50	8.640	1.50/2.00/1.00	1.000	1.000	9.700 x 1.600 x 2.000	10	7.500
EB 4,2,00	4.100	2.00/3.00/1.50	1.000	1.000	5.500 x 1.600 x 2.000	5,5	4.500
EB 6,2,00	6.400	2.00/3.00/1.50	1.000	1.000	7.500 x 1.600 x 2.000	10	6.300
EB 8,2,00	8.640	2.00/3.00/1.50	1.000	1.000	9.700 x 1.600 x 2.000	11,5	8.100



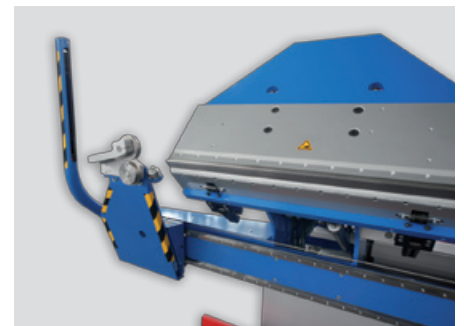
Model EB 6.1,50



The Variobend touch screen control enable the fast and easy input of new profiles as well as a library of standard profiles. 600 profiles can be stored. By using the Variobend touch screen control the machine can be operated in manual mode as well.



The torsion bar clamping system ensures perfectly level clamping and CNC controlled hemming.



The slitting assembly slides on dual linear bearing rails mounted directly on the machine-chassis therefore ensuring a very rigid structure. This innovative solution by Variobend ensures the bending beams are free from any interference. Speed of the slitter is ramped up and down to maximize life of drive cables and ensure smooth operation and long slitter blade life.



VARIOBEND AG

Hoferbad 12 . 9050 Appenzell
SWITZERLAND
www.variobend.ch

SALES + DISTRIBUTION VARIOBEND AG

Sandweg 24 . 74613 Öhringen-Ohrnberg
GERMANY
Phone +49 79 48 36 93 22
Fax +49 79 48 36 96 38
info@variobend.de
www.variobend.de

Distributor: