

Prima Power

The Bend

The Combi The Laser The Punch The System The Software

FastBend Bending automation for productivity

Speed, flexibility, ease of operation



Prima Power's experience in applying servo electric technology in automatic panel bending solutions has made it possible to revolutionize traditional manual bending.

FastBend replaces the press brake with the automatic bending technology which allows more bends for each side in an automatic sequence without any manual intervention including positive/negative inversion, smashing and radius bend; only the loading, rotation and unloading are manual. The result is quality, speed and elimination of mistakes.

With options ATC (automatic tool change) and barcode reader the machine makes setup automatically and activates a new part program. The clear and logical screen instructions facilitate and speed up operation further as well as support fast self learning.

FastBend requires no foundation and is very fast and easy to install. Average energy consumption is similar to a press brake and with its compact layout the machine offers a reduced impact on the manufacturing environment.

The machine can be operated in two different modes. In the **standard mode** the part is automatically fed during the bending sequence of every side. In the **press brake mode** the sheet is moved manually bend by bend, which allows the processing of the very narrow profiles.



Some FastBend benefits

- A productive step from press brakes towards fully automatic bending
- Favourable energy savings 7kWh, (-64% consumption and CO emission compared with hydraulic solution)
- Very low maintenance cost (-65%)
- Elimination of skilled operator need, still maximum productivity
- Excellent bending accuracy and surface quality
- High repeatability
- Improvement in safety and working conditions without loss in production
- Lower tooling costs
- Compact layout
- Lower noise level –68dB(A)
- Less vibration –66%
- Easy and fast installation
- No foundation required

Fastbend production sequence



Scan the program information



Load blank part



Rotate part by 180 degrees

5 different parts in 5 minutes

Prima Power's FastBend is a flexible, servoelectric bending machine that will revolutionize the world of press brakes. The FastBend can bend 5 different parts with different thicknesses and alloys in just 5 minutes.

Automatic tool change eliminates setup time.











Simply load, rotate and unload – everything else is automatic!



Rotate part by 90 degrees



Rotate part by 180 degrees



Unload finished part

Automatic tool change eliminates setup time



Bending principle

For optimum product quality two bending principles are available:

"Rolling mode" with a wider contact surface between the blade and the sheet but no relative friction.

"Circular mode" where the contact point on the panel remains the same, while the one of the blade changes during the bending movement.



TECHNICAL DATA	FBe4
Standard operation mode	
Max.bending length	2,250 mm
Min. bending length	
with re-entering bend	350 mm
without re-entering bend	200 mm
Min.bending width	140 mm
Bending height	200 mm
Max.re-entering bend	55 mm
Bending force	32 tons
Sheet holding force	52 tons
Max.thickness to bend:	
Steel (410 N/mm²)	2.5mm ($3.0\text{mm}\text{for}\text{max}1{,}800\text{mm}\text{length})$
Stainless steel (680 N/mm²)	1.8mm ($2.0\text{mm}\text{for}\text{max}1,\!800\text{mm}\text{length})$
Aluminum (295 N/mm²)	3.5 mm
Min.thickness to bend	0.5 mm
Bending angles	\pm 130° (4.0 mm for max 1,800 mm length)
Max.number of bends per side	Unlimited
Angle tolerance	±0°25'
Bend dimension tolerance	± 0.15 mm
Siemens numerical control	Sinumerik 840D Solution Line
Average absorbed consumption	6 kWh
Voltage	400 V
Press brake operation mode	
Min.bending width for profile	
with AUT tools	45 mm
Max.bending height	
First side	45 mm
Second side	120 mm

Energy in efficient use

green means

What does Green mean?

Green means a win-win for you and sustainable development. Sustainability adds to manufacturing efficiency and productivity. Your customers, your employees and the community you operate in demand it more and more. Sustainability & social responsibility are characteristics of

a modern company and add to competitiveness. They make a difference between the best and the rest.

And you make better sheet metal components at lower cost.

There are several reasons for which the servo electric revolution is steadily gaining ground over traditional solutions in the construction of sheet metal working machines. Firstly, in many ways the servo simply performs technically better than other solutions. Yet, it is not for this performance alone that servo drive solutions are chosen more and more often by machine tool suppliers and their customers.

As energy prices are high, the inherently low energy consumption of servo electric technology means concrete savings every hour, amounting to a considerable sum in the course of time. As for maintenance costs, compared with hydraulic machines they are far smaller. Further, decrease in the price level of even the most sophisticated servo motors and controls makes investment in new solutions also pricewise attractive.

Finally, since environmental considerations become more and more important, servo electric technology is part of the corporate image of modern companies committed to ecologically sustainable operation.

FBe 5-2	FBe 5-3	FBe 6
2,650 mm	2,650 mm	3,350 mm
350 mm	350 mm	350 mm
200 mm	200 mm	200 mm
140 mm	140 mm	140 mm
200 mm	200 mm	200 mm
55 mm	55 mm	55 mm
30 tons	41 tons	41 tons
52 tons	90 tons	90 tons
2.0 mm	3.2 mm	2.8 mm (3.2 mm for max 2,750 mm length)
1.5 mm	2.2 mm	1.8 mm (2.0 mm for max 2,750 mm length)
3.0 mm	4.0 mm	3.0 mm (4.0 mm for max 2,750 mm length)
0.5 mm	0.5 mm	0,5 mm
± 130°	± 130°	± 130°
Unlimited	Unlimited	Unlimited
± 0°25'	± 0°25'	± 0°25'
± 0.15 mm	± 0.15 mm	
Sinumerik 840D Solution Line	Sinumerik 840D Solution Line	Sinumerik 840D Solution Line
6.5 kWh	7 kWh	7.5 kWh
400 V	400 V	400 V
45 mm	45 mm	45 mm
45 mm	45 mm	45 mm
127 mm	127 mm	127 mm

ENERGY RECOVERY IN PRIMA POWER BENDING AUTOMATION

Power (kW)



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