

**ThePUNCH**

**TheLASER**

**TheBEND**

**TheCOMBI**

**TheSYSTEM**

**TheSOFTWARE**

**FINN-POWER**  
*TheBEND*

 **FINN-POWER FB65**



**Energy in  
Efficient Use®**

**FASTBEND**

**BENDING AUTOMATION  
FOR PRODUCTIVITY**

**FINN-POWER**

# **SPEED, FLEXIBILITY, EASE OF OPERATION**



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

The new 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

- Favourable energy saving
- Very low maintenance costs
- Excellent component quality
- Lower tooling costs
- High reliability
- Easy and intuitive programming
- Servo electrical motor with air cooling
- No influence by thermal conditions
- Possible upgrade with industrial robot automation
- Reduced impact on the manufacturing environment (minimum noise and vibrations)

# FASTBEND PRODUCTION SEQUENCE



*Scan the program information*



*Load blank part*

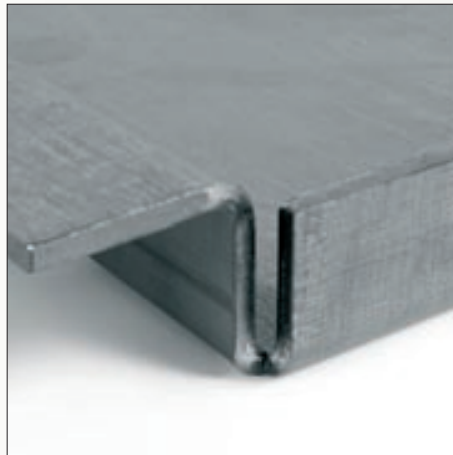


*Rotate part by 180 degrees*

## 5 DIFFERENT PARTS IN 5 MINUTES

Finn-Power's new 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*

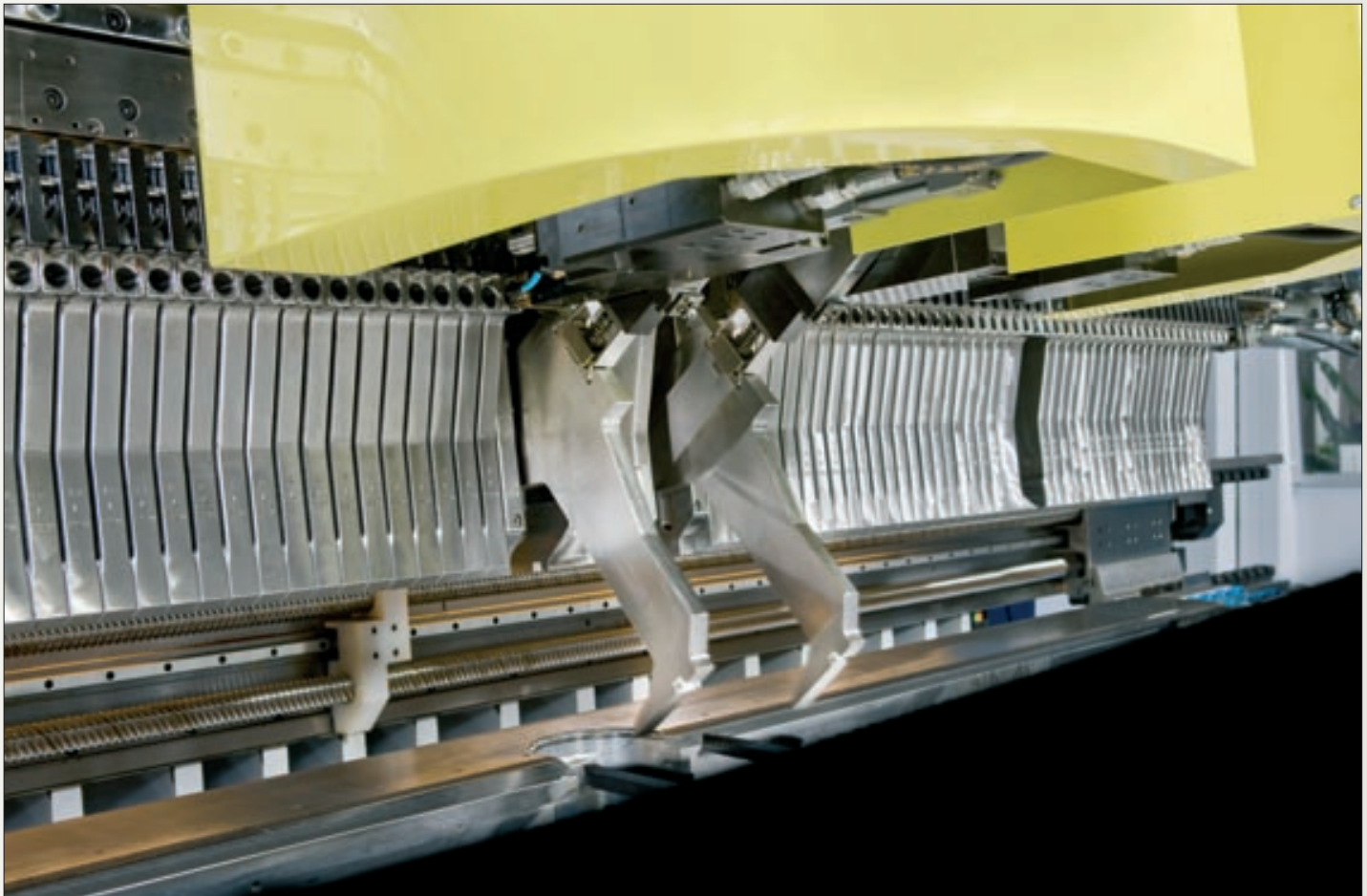


*Rotate part by 180 degrees*



*Unload finished part*

***Automatic tool change  
eliminates setup time***



# ENERGY IN EFFICIENT USE

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.



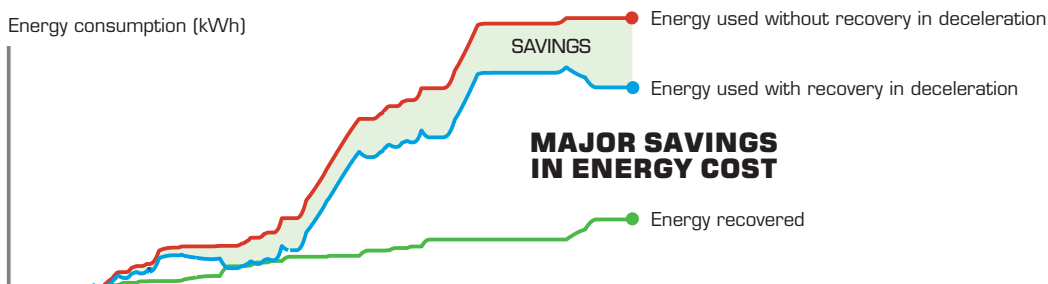
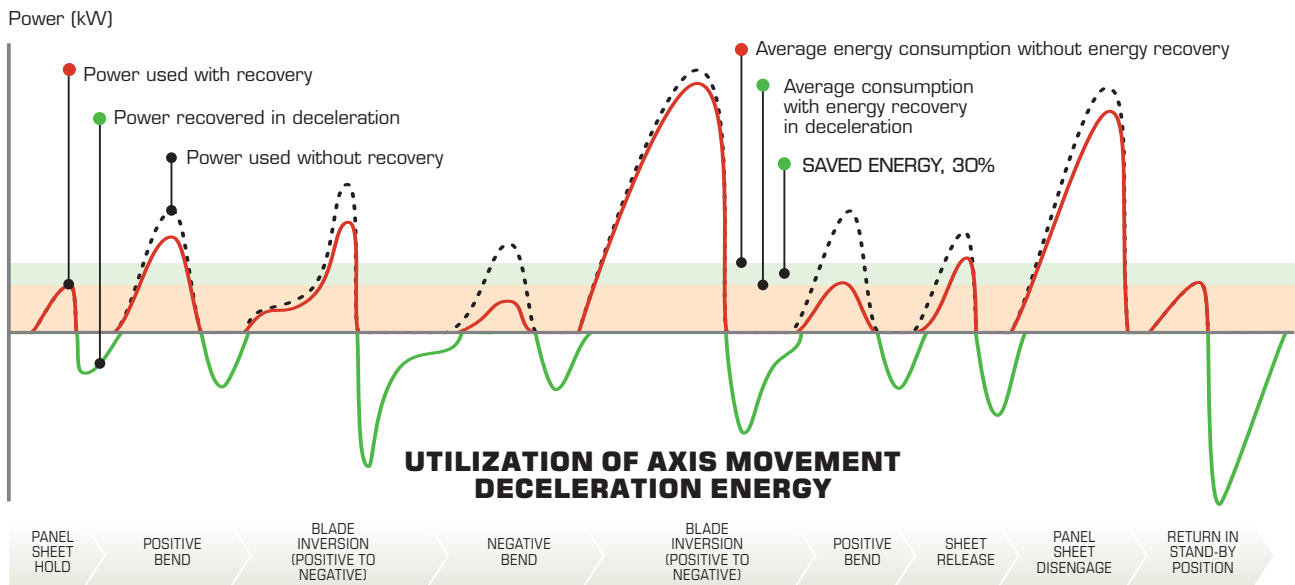
## Energy in Efficient Use®

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 price-wise 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.

### Energy recovery in FINN-POWER bending automation



# TECHNICAL DATA

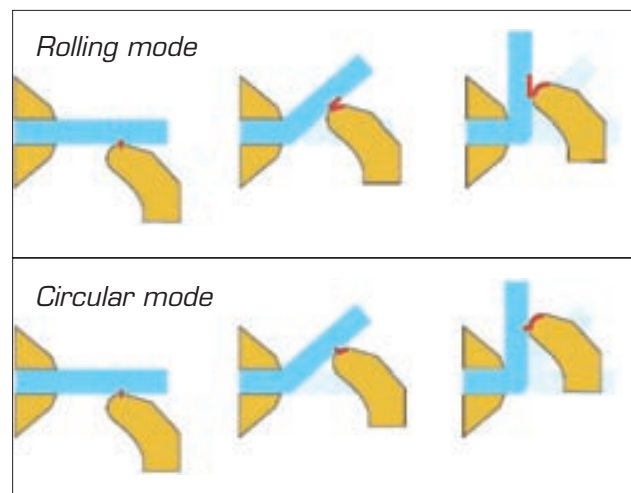
Type	FBe4	FBe5
<b>Standard operation mode</b>		
Max. bending length	2,150 mm	2,550 mm
Min. bending length		
with re-entering bend	350 mm	350 mm
without re-entering bend	200 mm	200 mm
Min. bending width	140 mm	140 mm
Bending height	200 mm	200 mm
Max. re-entering bend	55 mm	55 mm
Max. thickness to bend:		
Steel (410 N/mm <sup>2</sup> )	2.5 mm	3.2 mm
Stainless steel (680 N/mm <sup>2</sup> )	1.8 mm	2.2 mm
Aluminum (295 N/mm <sup>2</sup> )	3.5 mm	4 mm
Min. thickness to bend	0.5 mm	0.5 mm
Bending angles	± 130°	± 130°
Max. number of bends per side	Unlimited	Unlimited
Angle tolerance	± 0°25'	± 0°25'
Bend dimension tolerance	± 0.15 mm	± 0.15 mm
Siemens numerical control	Sinumerik 840D Solution Line	Sinumerik 840D Solution Line
Average absorbed consumption	6 kW	7 kW
Voltage	400 V	400 V
<b>Press brake operation mode</b>		
Min. bending width for profile		
with AUT tools	45 mm	45 mm
Max. bending height		
First side	45 mm	45 mm
Second side	200 mm	200 mm

## 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.





# 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.**



**Prima Industrie S.p.A.**  
Via Antonelli, 32  
10097 Collegno (To)  
Italy  
Tel. + 39 011 4103 1  
Fax + 39 011 411 28 27  
[www.primaindustrie.com](http://www.primaindustrie.com)



**Finn-Power Oy**  
P.O. Box 38  
FI-62201 Kauhava  
Finland  
Tel. + 358 6 428 2111  
Fax + 358 6 428 2244  
[www.finn-power.com](http://www.finn-power.com)