



ByBend Star 40/80

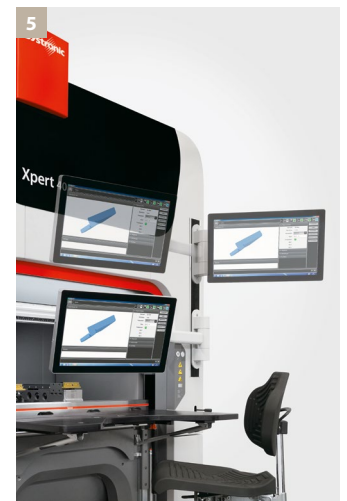
The mobile bending miracle. Compact speed machine for small and medium-sized parts.

Customer benefits

- **Mobile use:** The ByBend Star 40 as well as the ByBend Star 80 can be moved effortlessly to the place of use and are ready for operation in less than 5 minutes
- **Compact design:** Up to 80 tons of press force and a bending length of 1.5 meters - all this with a footprint of less than 6 square meters
- **High speed:** The compact chassis ensures high dynamics and enables bending speeds of up to 25 millimeters per second in highest bending quality
- **Low energy consumption:** The energy efficiency is unbeatable - thanks to Dynamic Drive System (DDS), Energy Saver and automatic start-stop function
- **Convenient handling:** The ergonomic design, the individually adaptable working environment and the intuitive software ensure high operating comfort



- 1 Maximum process speed
- 2 Individual adjustable work environment
- 3 Fast Bend safety system
- 4 Optical stroke triggering
- 5 Adjustable monitor



	ByBend Star 40	ByBend Star 80
Tonnage	400 kN	800 kN
Bending length	1,030 mm	1,530 mm
Open height	515 mm	515 mm
Standard stroke	200 mm	200 mm
Y-approach speed (up to)	250 mm/s	250 mm/s
Y-working speed (up to)	25 mm/s	25 mm/s



ByBend Star 40/80 Technical Data





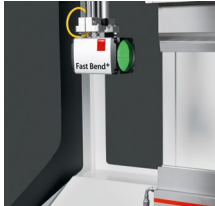
	ByBend Star 40	ByBend Star 80
Length	1,520 mm	2,050 mm
Width	1,385 mm	1,385 mm
Height	2,335 mm	2,540 mm
Tonnage	400 kN	800 kN
Bending length	1,030 mm	1,530 mm
Standard stroke	200 mm	200 mm
Open height	515 mm	515 mm
Distance between side frames	1,060 mm	1,570 mm
Table Width	60 mm	60 mm
Max. back gauge range X-axis	500 mm	500 mm
X-axis travel	300 mm	300 mm
R-axis travel	100 mm	100 mm
Z-axis travel	955 mm	1,455 mm
Z-axis speed	2,000 mm/s	2,000 mm/s
Y-approach speed (up to)	275 mm/s	275 mm/s
Y-working speed (up to)	30 mm/s	30 mm/s
Accuracy Y-axis	0.004 mm	0.004 mm
Oil capacity	100 l	200 l
Main motor power	7.5 kW	15 kW
Weight	4 t	6.5 t

The right to make changes to dimensions, construction, and equipment is reserved. ISO-9001-certified.

The technical data can vary in the different countries, according to local security rules and configuration of the machine.



Most important options



Fast Bend+

Saves 20 percent time in comparison to conventional safety systems



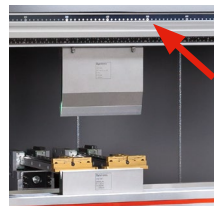
LAMS

Measures and corrects the angle during the bending process



Energy Saver

Reduces machine energy consumption by up to 60 percent. The machine creates less noise and less heat.



Optical bend guiding system

The worldwide fastest bending process control leads the user to the perfect part quickly and safely



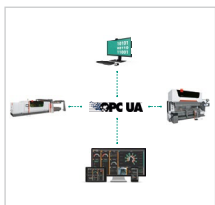
Detachable Bending line laser

Position bent parts quickly and easily



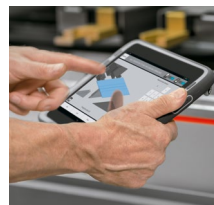
LED workspace lighting

Illuminates the workspace perfectly and uses a minimum amount of energy



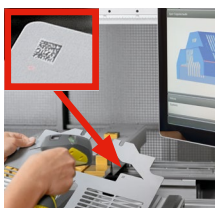
OPC Interface

Enables machine and operational data evaluation



Tablet Control

Bend process corrections are easily made using the tablet



PartID (part identification)

Identifies manufactured parts



Condition Messenger

Preventive function check of the machine



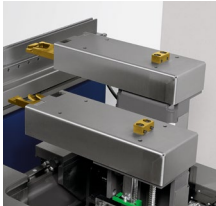
ByCockpit

Digital real-time information for sheet metal parts production. The ByCockpit keeps you up to date with selected key indicators on the machine performance, manufacturing efficiency, and material stock.



Optical Tool Detection System

Camera based tool set up verification system

**Flexible back gauge systems**

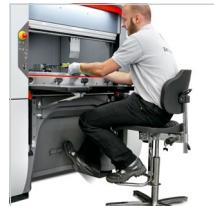
Double the axis speed compared to the standard backgauges possible

**Hydraulic bending aids**

Makes bending large, heavy, and long-sided parts easier. Material-friendly handling of sensitive materials such as stainless steel

**Hydraulic quick-clamping**

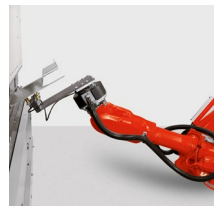
The automatic clamping of upper tools shortens set-up time by more than 20 percent

**Optical stroke triggering**

Triggers the stroke of the pressbrake with a simple foot movement

**Tandem operation**

Maximum flexibility for processing small to extra-long bend parts

**Robot interface**

Allows to connect robots from various manufacturers



	Customer benefits				Pressbrake				
	Increase efficiency	Reduce costs	Simplify processes	Be informed	Xpert 40 + 80	Xpert	Xpert Pro	Xact Smart	Xpress
Fast Bend+	■	■	■	■		▲	▲		
Fast Bend	■	■	■	■	■	■	■		
Fast Bend S	■	■	■	■				▲	▲
Fast Bend with angle measurement	■	■	■	■	▲				
LAMS	■	■	■	■		▲	▲		
Dynamic Crowing	■	■	■			■	■	▲	
Energy Saver		■			■	▲	■	▲	
Optical bend guiding system	■		■	■	▲	▲	▲		
Optical foot switch	■		■		▲				
Tablet Control	■		■		▲	▲	▲		
PartID (part identification)	■	■	■		▲	▲	▲	▲	▲
Bending line laser	■		■		▲	▲	▲	▲	▲
LED workspace lighting	■		■		▲	▲	▲	▲	
OPC Interface	■	■	■	■	■	■	■	▲	▲
Condition Messenger	■			■	■	■	■		
Observer	■	■	■	■	▲	▲	▲	▲	▲
Flexible back gauge systems	■		■		▲	▲	▲	▲	▲
Hydraulic bending aids	■	■	■			▲	▲	▲	
Hydraulic quick-clamping	■	■	■		▲	▲	▲	▲	
Tool opening on a control panel	■					▲	▲		
Tandem operation		■				▲	▲	▲	
Robot interface		■			▲	▲	▲	▲	
Increased open height, stroke, and throat	■		■			▲	▲	▲	
Bar code scanner	■				▲	▲	▲		▲
Remote diagnostics	■				▲	▲	▲	▲	▲
Optical Tool Detection System	■		■	■	▲				
Mechanical crowing system	■		■	■					▲

■ Standard

▲ Option



Bending tools

Use the right tools to achieve perfect bending results when air bending, embossing, and 3-point bending. Original tools from Bystronic are capable of unleashing the full potential of the machine's features, in order to ensure that your parts are always bent with utmost precision.

Customer benefits

- The quality of our tools is specifically designed and tested for Bystronic press brakes and your applications
- Bystronic bending tools (available with a variety of clamping types) are flexible and versatile, in order to cover your applications
- Original tool plus bending data: With every bending tool, you also receive the relevant import data for your press brake's software
- For particularly challenging applications, our tool specialists will be glad to advise and support you with the design of customized solutions
- The special production process and the high-strength quenched and tempered steel of our tools guarantee a long service life even under tough conditions
- The right tool for your product: You show us the product you want to manufacture, we recommend the suitable bending tool setup
- Bystronic bending tools can also be used with third-party press brakes. For this purpose, Bystronic offers its tools with various clamping styles