



ByBend Star 40/80

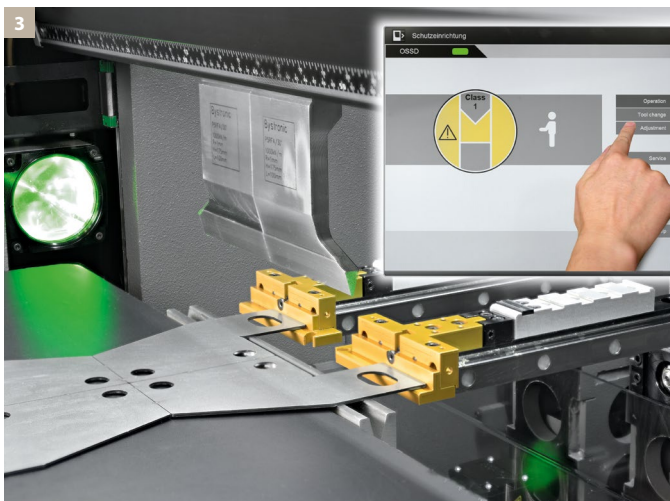
The mobile bending miracle. Compact speed machine for small and medium-sized parts.

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 88.18 US tons of press force and a bending length of 4.92 feet - all this with a footprint of less than 64.58 square feet
- High speed: The compact chassis ensures high dynamics and enables bending speeds of up to 0.98 inch 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	44 US tons	88 US tons
Bending length	40.6 in	60.2 in
Open height	20.3 in	20.3 in
Standard stroke	7.9 in	7.9 in
Y-approach speed (up to)	9.84 inch/s	9.84 inch/s
Y-working speed (up to)	0.98 inch/s	0.98 inch/s



ByBend Star 40/80 Technical Data





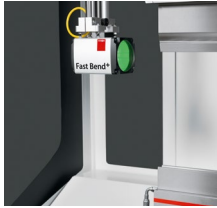
	ByBend Star 40	ByBend Star 80
Length	60 in	80.71 in
Width	54.53 in	54.53 in
Height	91.93 in	100 in
Tonnage	44 US tons	88 US tons
Bending length	40.6 in	60.2 in
Standard stroke	7.9 in	7.9 in
Open height	20.3 in	20.3 in
Distance between side frames	41.7 in	61.8 in
Table Width	2.4 in	2.4 in
Max. back gauge range X-axis	19.7 in	19.7 in
X-axis travel	11.8 in	11.8 in
R-axis travel	3.9 in	3.9 in
Z-axis travel	37.6 in	57.3 in
Z-axis speed	4,724 in/min	4,724 in/min
Y-approach speed (up to)	10.83 inch/s	10.83 inch/s
Y-working speed (up to)	1.18 inch/s	1.18 inch/s
Accuracy Y-axis	0.00016 in	0.00016 in
Oil capacity	26 gal	53 gal
Main motor power	7.5 kW	15 kW
Weight	8,818 lbs	14,330 lbs

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



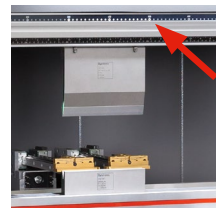
LAMS

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



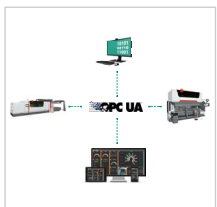
Detachable Bending line laser

Position bent parts quickly and easily



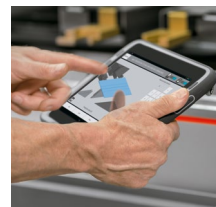
LED workspace lighting

Illuminates the workspace perfectly and uses a minimum amount of energy



OPC Interface

Enables machine and operational data evaluation



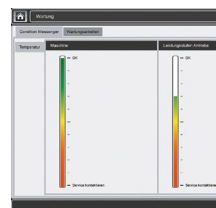
Tablet Control

Bend process corrections are easily made using the tablet



PartID (part identification)

Identifies manufactured parts



Condition Messenger

Preventive function check of the machine



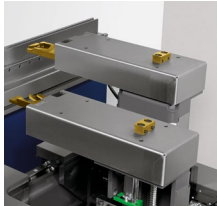
ByCockpit

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



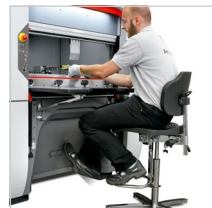
Flexible back gauge systems
Double the axis speed compared to the standard backgauges possible



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



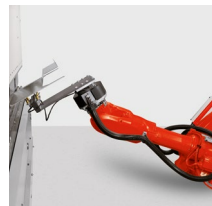
Hydraulic quick-clamping
The automatic clamping of upper tools shortens set-up time by more than 20 percent



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