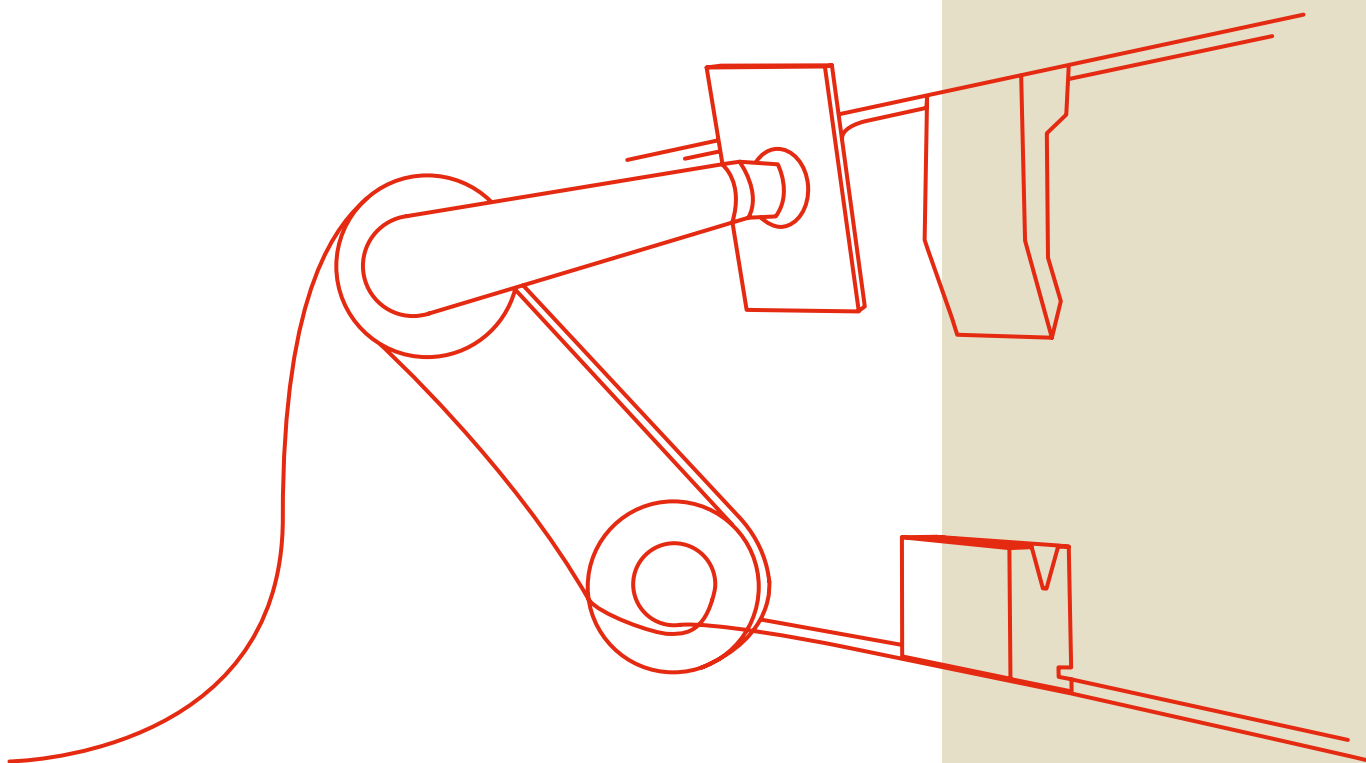


Bystronic



Bending Automation

Your best choice.

bystronic.com



Mobile Bending Cell

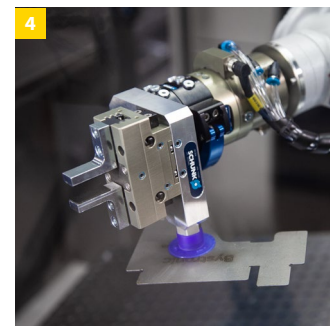
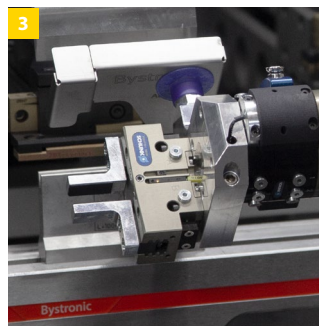
Mobile automation for high-speed bending

Customer benefits

- Ideal for varying order situations. You manually bend complex small series and use automatic bending for large series
- Intelligent automation enables lightly-manned multi-shift operation on the Xpert 40 with a high degree of process reliability
- Plug & Bend principle. The Mobile Bending Robot can be set up on the Xpert 40 in just a few minutes. In spite of automation, the overall system remains compact and mobile
- Convenient offline programming of bending jobs. Subsequently, BySoft Cell Control Bend allows the data to be imported in a simple process without interrupting the current bending job
- Simple upgradeability. The upgrade of the Xpert 40 with the Mobile Bending Robot can be carried out at any time



- 1 Mobile Bending Robot
- 2 Mobile Bending Robot
- 3 Precise bending sequences
- 4 Mounting for blank parts
- 5 Automation as required
- 6 Automation as required



Mobile Bending Cell

Max. load	10 kg
Maximum part size (approx.)	300 × 600 mm
Max. part weight (approx.)	7 kg
Air supply	5–7 bar
Weight	1,000 kg

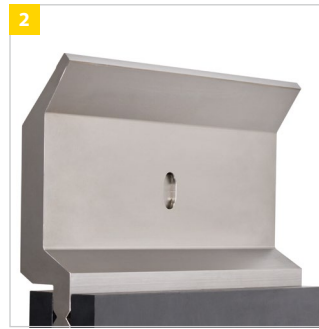


Bending Cell

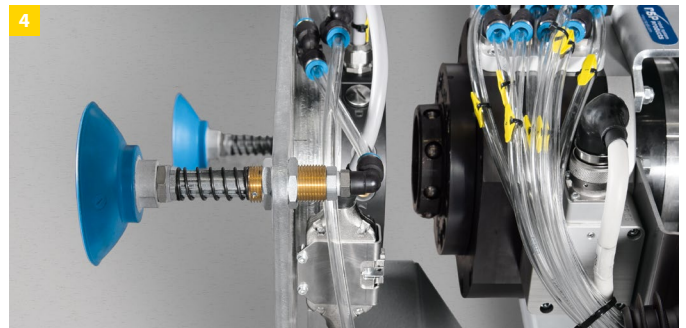
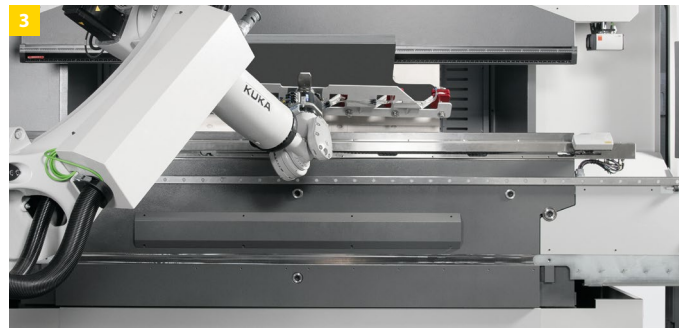
Bending center for fully automatic sheet metal processing

Customer benefits

- High degree of bending automation due to fully automated tool and gripper change. Ideal for the processing of job lists and for varying jobs, from small batch sizes right through to large series
- Save time and process bending parts unmanned with high precision. 7-axis robot with a high load capacity offers maximum flexibility and precision during the bending process. Even when bending heavy parts, this enables jobs to be processed fully automatically and without errors
- Flexibility through modular structure. The bending cell can be configured according to the customer's requirements. Press brakes with a bending length of 3 and 4 meter, robot payload of up to 300 kg, various materials' stocking locations and a big tool magazine
- Comprehensive automation concept from a single source. Bystronic provides the press brake, the automation system, customer service, and comprehensive guidance
- Convenient offline programming of bending jobs. Subsequently, the machine control allows the data to be imported in a simple process without interrupting the current bending job



- 1 Tool capacity 37 m, optionally expandable
- 2 Rotation of the tools
- 3 Linear axis 7 m, 10 m, or 13 m
- 4 Gripper stations 5, 7 or 10



Bending Cell

Tonnage pressbrake	100 t, 150 t, 200 t, 250 t, 320 t
Bending length	4,300 mm
Open height	840 mm
Standard stroke	450 mm
Max. part size	3,000 × 1,500 mm
Max. part weight (approx.)	165 kg
Max. Robot Payload	300 kg
Min. sheet thickness approx.	0.5 mm
Air supply	6–8 bar
Max. sheet metal stack height approx.	1,500 mm
Max. stack height, sheet table	2,000 mm
Max. tool capacity tool magazine	37 m
Number gripper stations	5, 7, 10



Modular Tool Changer

The most flexible automation for fast and precise tool changing

Customer benefits

- Save time and increase the bending quality thanks to the automated changing of upper and lower tools
- Precise and wear-free positioning of the tool sets in the clamping systems of the upper and lower beam
- Efficient set-up and removal of tool segments up to 515 millimeters in length
- Simple tool expansion at any time: An intelligent sensor system automatically detects new tools and integrates them into the tool magazine
- Automatic rotation of the upper tools increases the variety of bending applications
- Maximum application diversity in the thin and thick sheet metal range thanks to the possibility to use lower tools up to V120 and upper tools with a height of up to 350 millimeters
- Precise and gentle processing of bent parts thanks to automatic cleaning of the bending table
- Modular design enables Xpert Pro series press brakes to be upgraded



	Xpert Pro Extended 100/3100 + Modular Tool Changer	Xpert Pro Extended 150/3100 + Modular Tool Changer	Xpert Pro Extended 200/3100 + Modular Tool Changer
Tonnage	1,000 kN	1,500 kN	2,000 kN
Bending length	3,100 mm	3,100 mm	3,100 mm
Standard stroke	450 mm	450 mm	450 mm
Open height	840 mm	840 mm	840 mm
Max. tool capacity tool magazine *	52 m	52 m	52 m

	Xpert Pro Extended 200/4300 + Modular Tool Changer	Xpert Pro Extended 250/3100 + Modular Tool Changer	Xpert Pro Extended 250/4300 + Modular Tool Changer	Xpert Pro Extended 320/4300 + Modular Tool Changer
Tonnage	2,000 kN	2,500 kN	2,500 kN	3,200 kN
Bending length	4,300 mm	3,100 mm	4,300 mm	4,300 mm
Standard stroke	450 mm	450 mm	450 mm	450 mm
Open height	840 mm	840 mm	840 mm	840 mm
Max. tool capacity tool magazine *	52 m	52 m	52 m	52 m

* 4300 mm Bending length



Mobile Bending Cell Technical Data





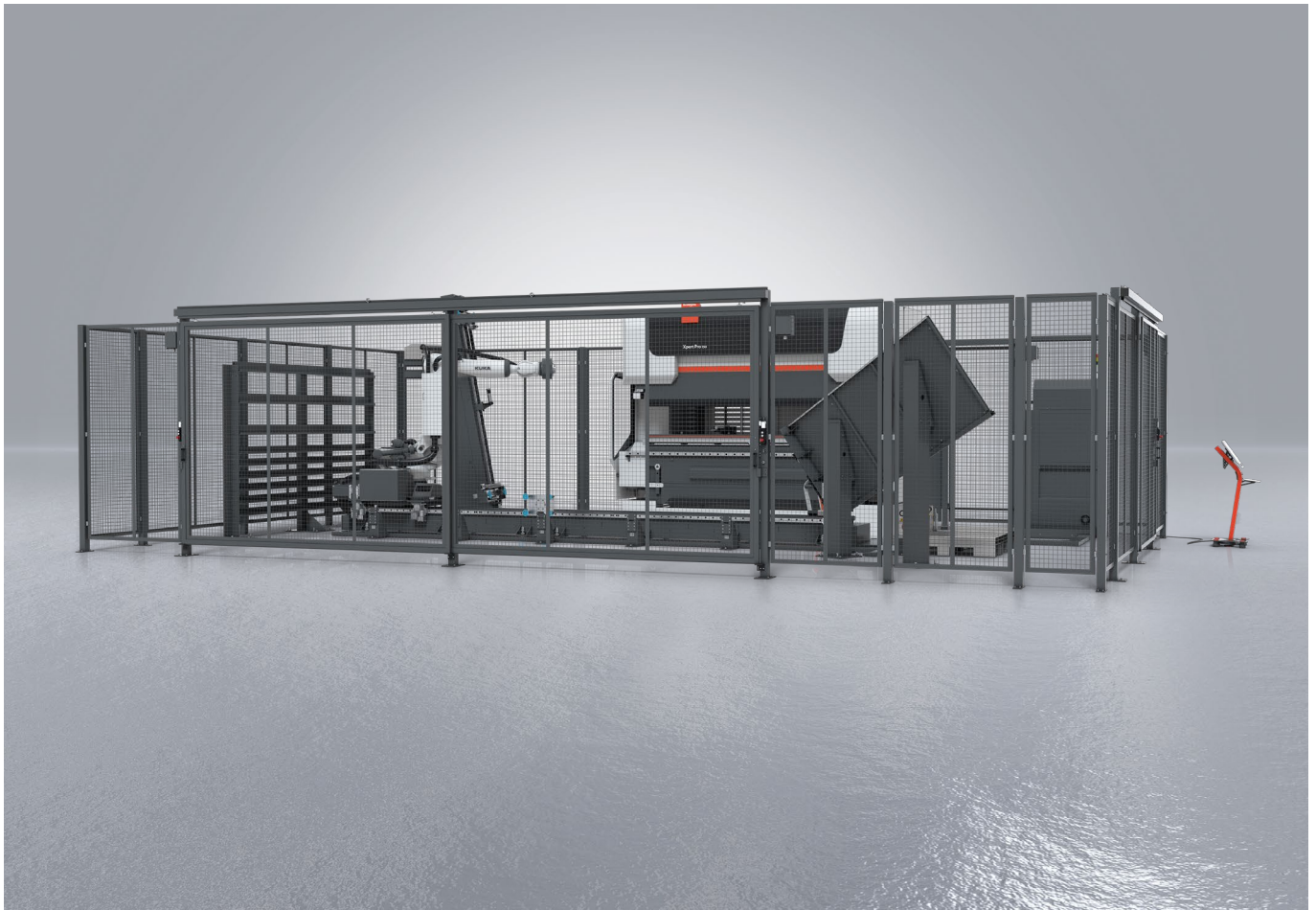
	Mobile Bending Cell
Length	1,520 mm
Width	1,200 mm
Height	2,090 mm
Max. length approx. incl. bend part slide	1,891 mm
Max. approx. width incl. door connection	2,823 mm
Air supply	5–7 bar
Air consumption	200 l/min
Energy consumption	16 Amp
Power supply	3 kW
Power supply	400 V
Type of compressed air	ISO8573-1:2010
Max. Load capacity of robot	10 kg
Maximum part size (approx.)	300 × 600 mm
Weight	1,000 kg
Max. load	10 kg

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.



Bending Cell Technical Data





	Bending Cell
Length	8,300 mm
Width	12,000 mm
Max. part size *	3,000 × 1,500 mm
Payload robot	120 kg, 210 kg, 300 kg
Length linear rail	7 m, 10 m, 13 m
Min. sheet thickness approx.	0.5 mm
Max. sheet thickness	10 mm
Max. sheet metal stack height approx.	1,500 mm
Max. stack height, sheet table	2,000 mm
Air supply	6–8 bar
Tonnage pressbrake	100 t, 150 t, 200 t, 250 t, 320 t
Bending length **	4,300 mm
Standard stroke	450 mm
Open height	840 mm
Max. tool capacity tool magazine ***	37 m

* Larger applications upon request

** Maximum bending length

*** Optionally expandable

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.



Modular Tool Changer Technical Data





	Xpert Pro Extended 100/3100 + Modular Tool Changer	Xpert Pro Extended 150/3100 + Modular Tool Changer	Xpert Pro Extended 200/3100 + Modular Tool Changer
Length	5,780 mm	5,780 mm	5,780 mm
Width	4,940 mm	4,940 mm	4,940 mm
Height	3,420 mm	3,420 mm	3,660 mm
Tonnage	1,000 kN	1,500 kN	2,000 kN
Bending length	3,100 mm	3,100 mm	3,100 mm
Standard stroke	450 mm	450 mm	450 mm
Open height	840 mm	840 mm	840 mm
Throat	400 mm	400 mm	400 mm
Table Width (T12)	74 mm	74 mm	74 mm
Table Width (T13)	110 mm	110 mm	110 mm
Max. tool capacity tool magazine *	52 m	52 m	52 m
Max. length upper tool **	515 mm	515 mm	515 mm
Max. height upper tool	350 mm	350 mm	350 mm
Max. length bottom tool **	515 mm	515 mm	515 mm
Max. bottom tool opening	120 mm	120 mm	120 mm

	Xpert Pro Extended 200/4300 + Modular Tool Changer	Xpert Pro Extended 250/3100 + Modular Tool Changer	Xpert Pro Extended 250/4300 + Modular Tool Changer	Xpert Pro Extended 320/4300 + Modular Tool Changer
Length	6,980 mm	5,780 mm	6,980 mm	6,980 mm
Width	4,940 mm	4,940 mm	4,940 mm	4,940 mm
Height	3,660 mm	3,660 mm	3,660 mm	3,750 mm
Tonnage	2,000 kN	2,500 kN	2,500 kN	3,200 kN
Bending length	4,300 mm	3,100 mm	4,300 mm	4,300 mm
Standard stroke	450 mm	450 mm	450 mm	450 mm
Open height	840 mm	840 mm	840 mm	840 mm
Throat	400 mm	400 mm	400 mm	400 mm
Table Width (T12)	74 mm	74 mm	74 mm	74 mm
Table Width (T13)	110 mm	110 mm	110 mm	110 mm
Max. tool capacity tool magazine *	52 m	52 m	52 m	52 m
Max. length upper tool **	515 mm	515 mm	515 mm	515 mm
Max. height upper tool	350 mm	350 mm	350 mm	350 mm
Max. length bottom tool **	515 mm	515 mm	515 mm	515 mm
Max. bottom tool opening	120 mm	120 mm	120 mm	120 mm

* 4300 mm Bending length

** 25 kg Tool Weight max.

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.