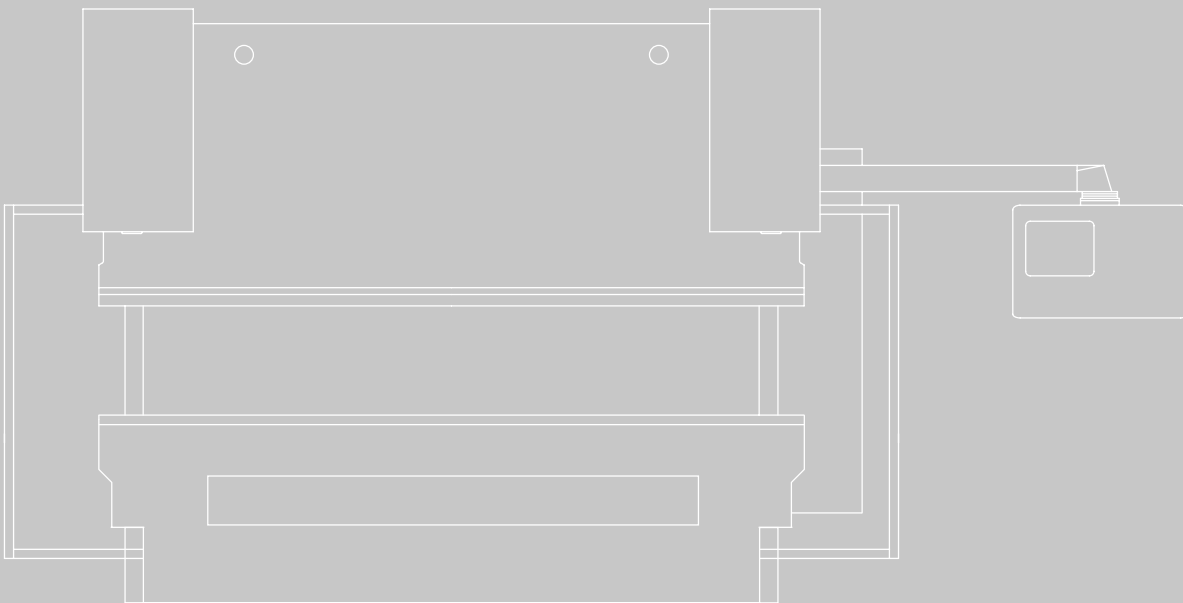


Bystronic

unique in bending

AFM EP pressbrake

CNC-synchronized pressbrake
for efficient bending processes



AFM EP pressbrake – economical, flexible, process-secure

Equipped with its Synchro technology, the AFM EP pressbrake fulfills the high demands placed on process security by Bystronic customers. The hydraulic-crowning system and the adaptation of the periphery to the customer's numerous requirements ensure that the system is extremely flexible and that it produces good bending results across the entire spectrum of sheet thicknesses. Combined with an excellent price-performance ratio, these characteristics mean extremely economical processing of orders for individual users.

Features

The AFM EP pressbrake is characterized by its robust construction and simple operation. But behind this there lie far-reaching expertise, reliable technology and mature component design.

- Robust and twist-free welded construction
- Modern block hydraulics with proportional valve technology
- Various arrangements are available for fixing the lower tools
- A high-resolution measurement system determines both the position of the upper beam as well as the compensation of the side frame deflection



Technical data

Tonnage	1000–1600 kN
Bending lengths	3150–4050 mm
Backgauge system	X, R, (Z1, Z2 manual)
The whole model range	over-floor installation
Safety	CE certified

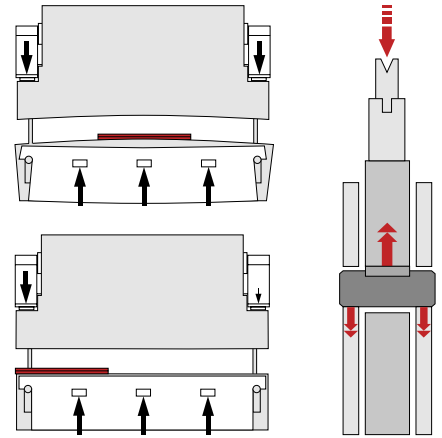


Important components



DNC control

The DNC-884S PS 2D graphic control with 10-inch TFT color screen guarantees complete control over the bending process. The underlying Windows XP operating system ensures high operational reliability and easy, convenient operation. The basic functions are called up with the touch of a button; the corresponding keys are arranged sensibly since they are sorted thematically. The bending sequence is depicted in two dimensions. The screen displays details about material handling and possible collisions between work-piece and tools or machine-side equipment.



Hydraulic crowning

The pressure for the hydraulic crowning is set automatically after the length and thickness of the sheet to be bent has been programmed into the DNC-884S PS. The lower beam consists of 3 robust steel plates that are assembled like a sandwich. The hydraulic-crowning system ensures an even bending angle across the entire length of the bend.

Tool protection

Tool overloads are avoided automatically via the control package in which the maximum permitted loads for the tools are stored. If, based on the parameters entered, bending forces are calculated that lie outside the loading range of the tools, the bending process cannot be started and an error message is displayed.

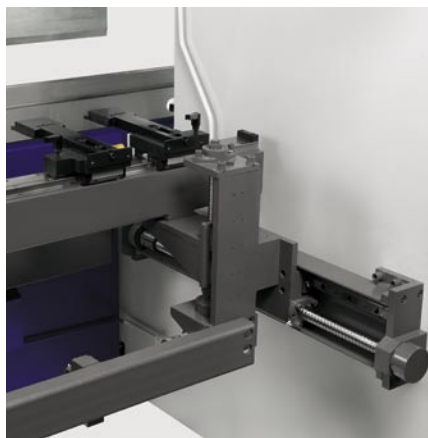
This brochure may show parts that do not belong to the standard equipment but that are available as options. In order to permit the details of the machine to be identified more clearly, safety covers have in some cases been opened or removed. Changes to dimensions, construction and equipment are reserved. See the separate data sheet for the technical data.

Certified in accordance with ISO 9001



Front workpiece supports

The AFM EP pressbrake incorporates front workpiece supports that are fixed to the table. They can be adjusted manually in height and they can also be positioned all along the table.



DNC-controlled backgauge system

AFM pressbrakes are equipped with a DNC-controlled backgauge system. This permits the system to be positioned automatically both in the X and the R axes. Both fingers can be adjusted manually laterally on the Z plane via linear guides.



Safety facilities

The laser protection on the operating side is adjustable in height and interrupts the bending process if the laser beam is broken. This ensures that work accidents are prevented effectively.

Expansion possibilities

- PC 1200 offline software
- Hydraulic clamping facility for the upper tools

Service & Support

Bystronic's proven technology and extensive expertise produce systems that are extremely reliable. With its global network of specialized service and training experts and comprehensive spare parts inventories in the local markets, Bystronic guarantees that it will support what it sells. In addition to maintenance, spare parts delivery, and repair services, customers are also offered training programs as well as hardware, software, and operational support so that they are in a position to get the most from their machine investment.

Areas of application

The AFM EP pressbrake achieves very good bending results when processing sheet metal of various thicknesses.

Sheet metal thicknesses

Mild steel	0.5 to 15 mm
Stainless steel	0.5 to 12 mm
Aluminum	0.5 to 25 mm

The machine is in use worldwide in various market segments:

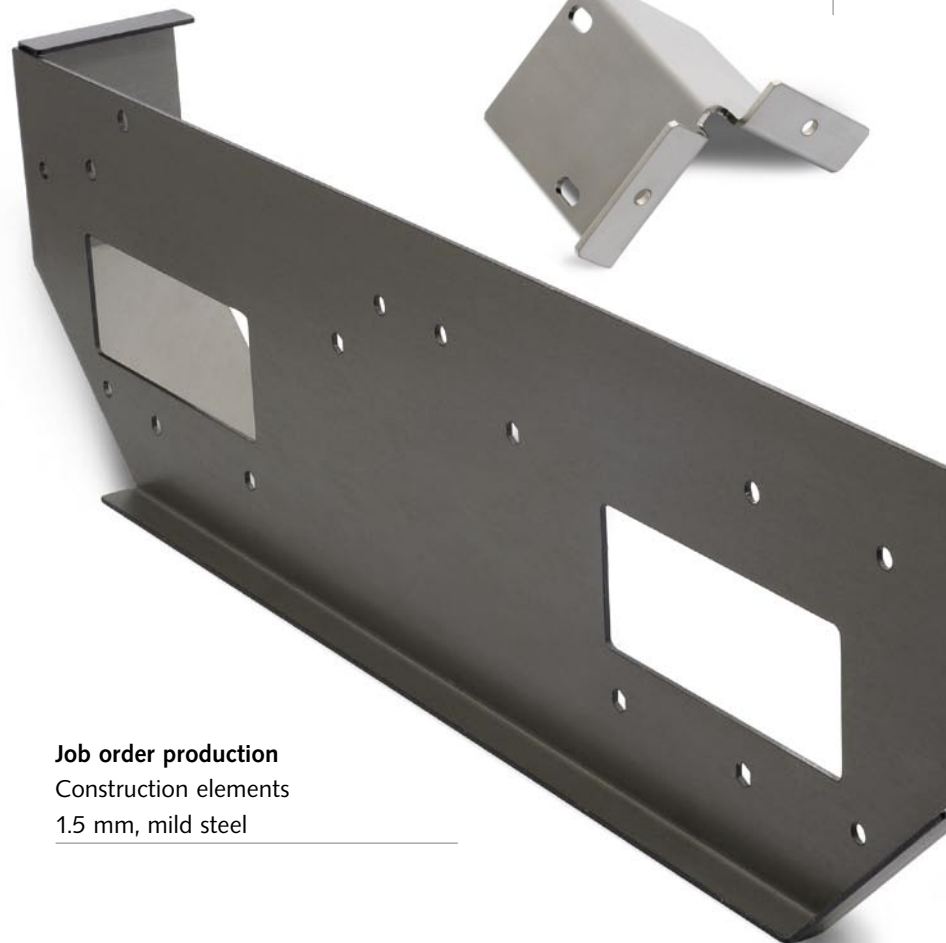
- General job order production
- Steel building construction (for example, door and window frames)
- Electrical industry, electronics (for example, switching cabinets and housings)
- Power engineering
- Air-conditioning systems
- Office furniture (for example, cabinets and drawers)

Customer benefits

- High productivity thanks to the high-quality AFM bending technology
- User-friendly, online and offline programming of individual and series production parts thanks to simple, logical program design
- Minimization of errors thanks to simple simulation and collision checking prior to bending
- Simple handling thanks to user-friendly tool design and tool change system
- Machines are installed without the need for a special foundation
- Outstanding price-performance ratio
- Optimal software and hardware support through on-site service

Prefabricated parts

Power engineering
Connection elements
2 mm, mild steel



Job order production
Construction elements
1.5 mm, mild steel

Kitchen equipment

Machine casing

1 mm, aluminum

**Systems construction**

Sandwich element

1 mm, aluminum

**Office equipment**

Guide rails

1.5 mm, mild steel

**Vehicle construction**

Brackets

3 mm, mild steel

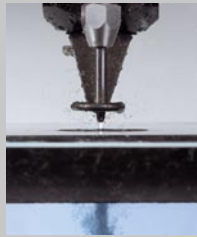
Bystronic is a worldwide active supplier of application-oriented systems and services for the laser and waterjet cutting processes, as well as bending: economical, high-performance, reliable.



Laser cutting
Laser cutting systems for the innovative processing of a wide variety of materials and geometries



Bending
3-point and air bending machines for high-precision working of sheet metals



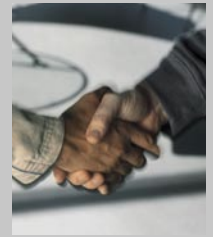
Waterjet cutting
Waterjet cutting systems for cutting metals, glass, synthetics, ceramic, and many other materials



Automation
High-performance handling and automation solutions from simple loading systems to fully automated laser production cell with integrated storage system



Software & Control
User-friendly programming and operation with requirement-oriented applications programs and interfaces to CAD and ERP systems



Service & Support
Competence and customer proximity with after-sales support available worldwide: local contact persons, prompt delivery of spare parts, and professional training courses

Your contact

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