



HyPress Hydraulic Presses

Plastics
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Hydraulic presses from FRIMO are suitable for a wide range of pressing, foaming, punching and forming tasks. Depending on the customer's requirements, the standard press can be adapted with regard to table size, stroke and clearance as well as press force. If further customization is required, special solutions can be developed. The offering is completed by numerous options, such as safety packages, pivoting rams and tables, tool change systems and automation solutions. FRIMO also supplies the associated tools, e.g. for punching, foaming and forming.

HyPress standard series



HyPress standard press with punching tool

HyPress special solutions



HyPress heating press



HyPress forming press

Highest precision

FRIMO standard presses are designed as welded and bolted structures. Machine feet, head and side parts are manufactured with high precision and fastened with fitting keys. The ram is guided via prism bars and its play is easy to adjust. This makes it possible to achieve extremely high precision in the production process. Alternatively a tie-bar guidance can be used.

Individually configurable

Standard configuration

- Fully adjustable ram stroke via position measuring system
- Hydraulic system:
 - Frequency-controlled internal gear-wheel pump
 - Press safety block according to DIN EN 693
- Siemens PLC control system with control panel in the electrical cabinet
- Noise level per work station < 80 dB(A)
- Clamping device with safety catch
- Safety strut

Hydraulic options

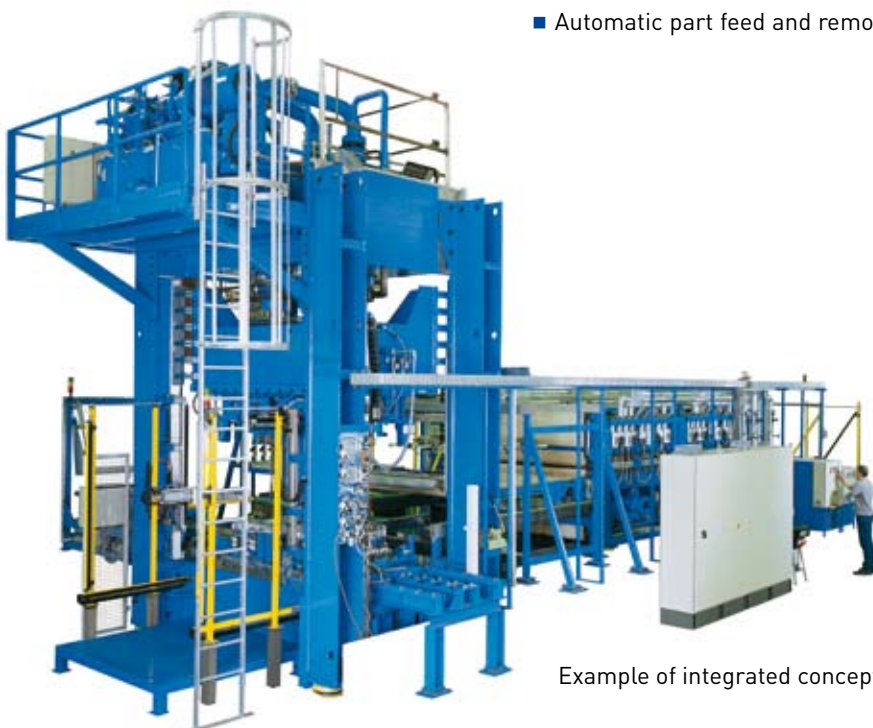
- Hydraulic unit from Bosch Rexroth or Parker
- Hydraulic unit arranged on platform
- Additional hydraulic circuits
- Oil pan

Safety options

- Light curtains in the front operating area with rear encroachment protection
- Light curtains in the rear operating area
- Rear entrance safety barrier
- High-speed roller-shutter

Press options

- Pressing force from 300 to 4,000 kN
- Press stroke from 1,000 to 1,400 mm
- Opening velocity from 200 to 300 mm/s
- Closing velocity from 200 (differential mode) to 400 mm/s (after-suction mode)
- Pivoting ram and tables
- Hydraulic tool clamping system
- T-grooves or hole pattern in the table and ram
- Tool change systems:
 - Roller conveyors for manually assisted tool change
 - Roller conveyors with change table for automatic tool change
- Tool coding plug
- Waste conveyor
- Automatic part feed and removal system



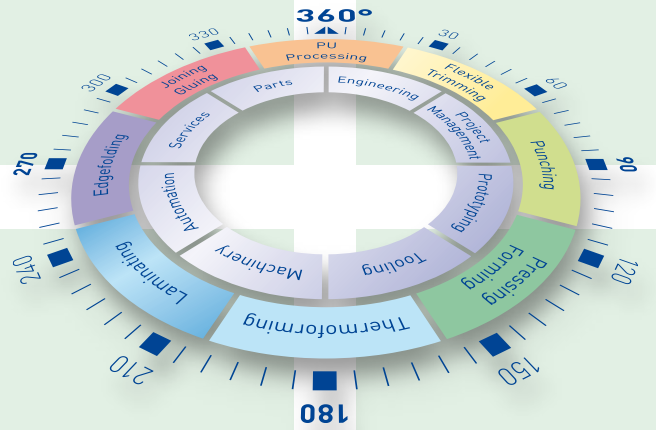
Example of integrated concept

Benefits

- Flexibility due to tool change
- Modular design for perfect adaptation to specific needs
- High geometric precision and stiffness
- Compact machine design
- Comprehensive basic configuration
- Versatile utilization for e.g.
 - punching
 - pressing
 - forming
 - foaming
- Wide range of options



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