Technical Description

Model HTP 40/60

Colour	Blau / weiß
Dimensions L x W x H	
Machine	670 x 550 x 1250 mm
Maschine including packing crate	1200 x 1200 x 1800 mm
Weight	
Machine	Xxx
Machine including packing crate	Xxx
Pressing force	
HTP 40	400 kN
HTP 60	600 kN
Electrical power supply and consumption	
Voltage	400 V, 50 Hz, 3 Phases
Neutral conductor	Nicht erforderlich
Power consumption	Xxx
Pneumatic supply and consumption	
Only required with pneumatic cleaning device	
Min. 5 bar, max. 10 bar	
Consumption per sample approx. 15 dm^3	
Electrical switchgear cabinet (integral)	
PLC	Simatic S7-1200
Control voltage	24 V DC
Degree of protection	IP 54
Isolation class	B
Pressing process	
Pressing in steel rings	Standard 40 x 35 x 14 mm or 51.5 x 35 x 8.6 mm
Pressing in aluminum cups	Standard diameter 40 mm
Free pressing	Diameter 15- 50 mm

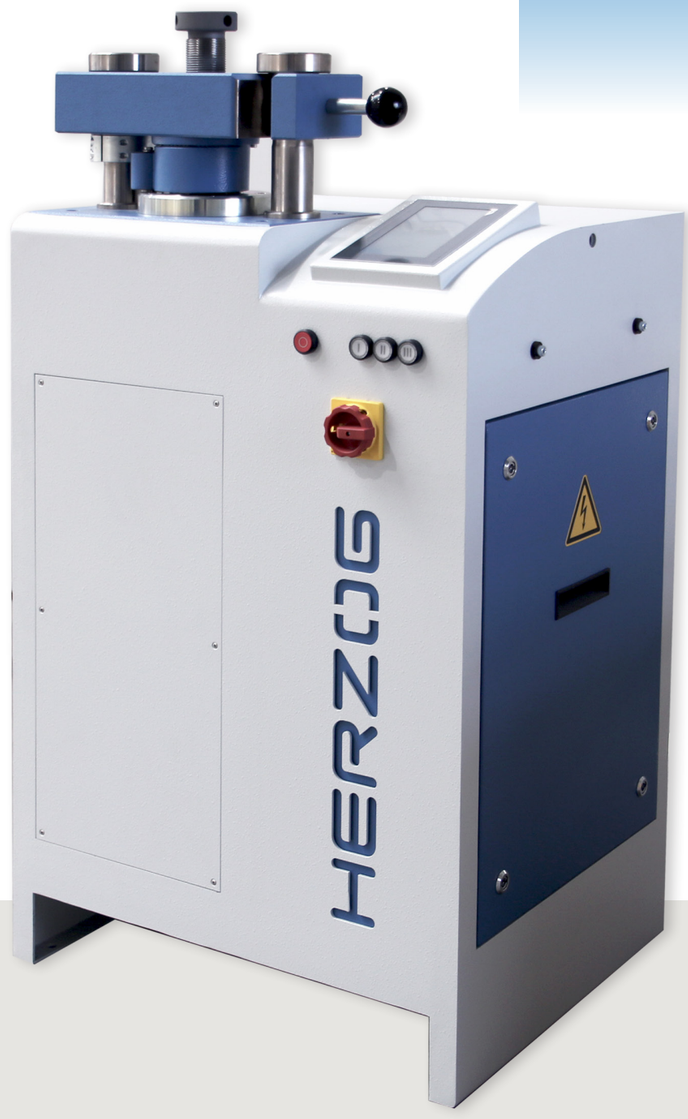
Options

- Press tool 40 mm diameter for free pressing
- Press tool 40 mm in aluminium cups
- Press tool 40 mm for pressing in steel rings
- Press tool 51.5 mm for pressing in steel rings
- Cleaning device, manual
- Cleaning device, pneumatic
- Cooling system for hydraulic unit

HTP/04-2023-EN-1

CE The design of the machine complies with the applicable accident prevention and VDE regulations. We reserve the right to make technical modifications.

HTP
Semiautomatic
laboratory press



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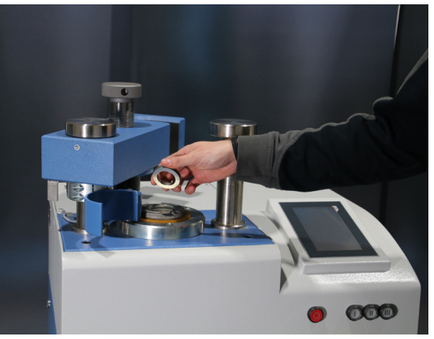
The HTP is the ideal laboratory press for the semi-automatic production of press tablets for X-ray fluorescence analysis. Due to the variety of pressing tools and the extensive configurability of the machine parameters, the HTP can be used for a wide range of different materials and applications.

In combination with a Herzog laboratory mill, the HTP fulfills all the requirements demanded in quality and process control laboratories for reproducible, efficient and process-reliable sample preparation of powder samples.



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Easy handling

The HTP laboratory press is characterized by its simple and ergonomic operation. The area for filling the press tool with the sample material is located at a comfortable working height and is easily accessible. This allows fatigue-free working at the machine over a longer period of time.

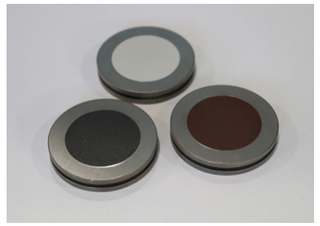
The smooth-running press traverse can be swiveled to the side with a single hand movement, exposing the generous working area to the operator. This makes it much easier to fill, remove and clean the pressing tool. All pressing tools from Herzog are characterized by high material quality and high-precision manufacturing. This guarantees not only perfect quality of the pressed parts, but also trouble-free operation and problem-free handling.

The machine is operated via the integrated, touch-sensitive 7-inch color display. The size of the display and the clear menu navigation allow easy and intuitive access to all machine functions. The three buttons on the front of the machine are programmable, so that frequently used sample preparation programs can be started directly at the touch of a button.

Highest quality standards

All processes in the HTP are controlled by a programmable logic controller. In conjunction with the high-performance hydraulic unit, this ensures extremely precise control of all phases of the pressing process. As a result, a high degree of precision and accuracy is achieved in the sample preparation and analysis of the pressed tablets.

All relevant parameters of the pressing process such as pressing pressure, pressing speed and pressure holding time can be set on the HTP's HMI panel and saved as a program. Thus, force build-up and reduction can be parameterized in such a way that even complicated sample materials can be pressed without any problems.



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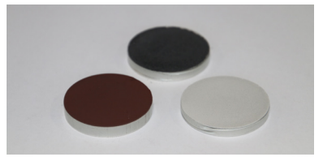
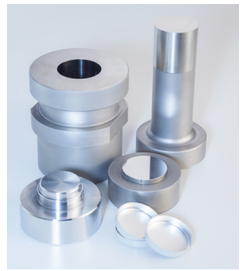


Improved service and safety features

The HTP has improved maintenance and service features. The front-mounted access panels facilitate access to the inside of the machine so that regular cleaning and inspection tasks can be carried out quickly and easily by the operating personnel. In addition, service and repair work that needs to be done can be carried out more efficiently thanks to the easy access to the hydraulic unit.

The safety features of the HTP have also been further improved compared to the previous model. Pelletizing can only be started when the safety cover is closed. This rules out unintentional operator interference with the pressing tool. During filling of the pressing tool, the safety cover can be folded to the side so that the operator's field of vision is not impaired.



Options for all applications

The HTP 40 achieves pressing forces of up to 400 kN, the HTP 60 even up to 600 kN. This means that even pressed pellets with larger diameters can be produced without any problems.

The HTP can be equipped with a cleaning device for steel rings, which is attached to the side of the machine. This allows effortless and rapid removal of the sample material from the ring after analysis is complete. The cleaning device is available in manual and pneumatic versions.

For laboratories with high sample throughput, an optional hydraulic unit cooling system is available. This allows the laboratory press to operate for substantially longer periods without overheating the hydraulic oil.

Various pressing tools allow the HTP to be used flexibly for different applications, materials and measuring instruments. Optional pressing tools are available for free pressing as well as for pressing into 40 mm, 50 mm rings and aluminum cups.

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