

Laboratory machines for the processing of polymers

Laboratory Platen Presses Type P 200 E / Type P 300 E

The bench-top presses for universal use



Application

For carrying out simple pressings in the plastics, rubber, ceramics and polymer industries, for example the production of:

- Thin film from 10 to 100 μm
- Sheets from 1 to 20 mm
- Laminations, backing materials
- Embossing

Design

- Compact, bench-top designs for ease of setting up and use
- Quiet in operation
- Integral electrical heating and water cooling
- High level of safety with all operating parts enclosed within guarding

From polymer to information

Safety

The presses of types 200 E and 300 E are designed as bench-top presses.

Press frame

The press frame consists of

- a bottom platen with built-in, double-acting hydraulic cylinder
- a top platen
- the four tie bars
- the moving platen actuated by the piston

Hydraulic unit

The hydraulic system is integrated into the machine frame. Anti-vibration pads isolate the already low vibration pump unit, additionally from the frame.

Press plates

These are provided with inlets/outlets for connection to external temperature regulation systems. When fitted with electrical plate heating, a multi-layer plate set with heating and cooling plates, as well as a cover plate, is used.

By employing this sandwich design and in conjunction with the correct cartridge heaters, a temperature deviation of +/- 2 K is achieved over the working surface.

Control

The control is semiautomatic by preselecting pressure, pressing and cooling time.

Cooling

Cooling is performed by means of integrated cooling plates or the cassette-type cooling system.

Cassette cooling system

As an option a system with cooling plates, positioned outside the frame containing the heating plates, can be supplied. Rapid cooling is achieved by inserting the cooling plates into the press after heating time is elapsed.



Technical data

	Type	P 200 E	P 300 E	P 400 E
Plate size	(mm)	200 x 200	300 x 300	400 x 400
Useful opening stroke	(mm)	100	150	250
Clamping force (max.)	(kN)	125	300	500
Max. spec. pressure	(N/cm ²)	310	350	320
Motor drive power	(kW)	0,8	1,0	3,0
Electr. heater power	(kW)	2 x 2,5	2 x 6	2 x 8
Max. working temperature	(°C)	300	300	300
Dimensions:				
Width (without cooling cassette)	(mm)	650	800	1160
Width (with cassette)	(mm)	1100	1300	1700
Depth	(mm)	350	510	680
Height	(mm)	800	1000	1700
Weight (net)	(kg)	190	380	900

Technical modifications reserved

Represented by:

Dr. Collin GmbH
 Sportparkstr. 2, D-85560 Ebersberg, Germany
 Phone ++49 (0)8092/2096-0, Fax ++49 (0)8092/20862