

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  $\mu\text{m}$
- 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 the abstract polymer to the real properties*

**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 low vibration pump unit, additionally from the frame.

A system of pressure accumulators reduces pressure peaks and guarantees a constant level of pressure.

**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 distribution of +/- 2 K is achieved over the working surface.

**Control**

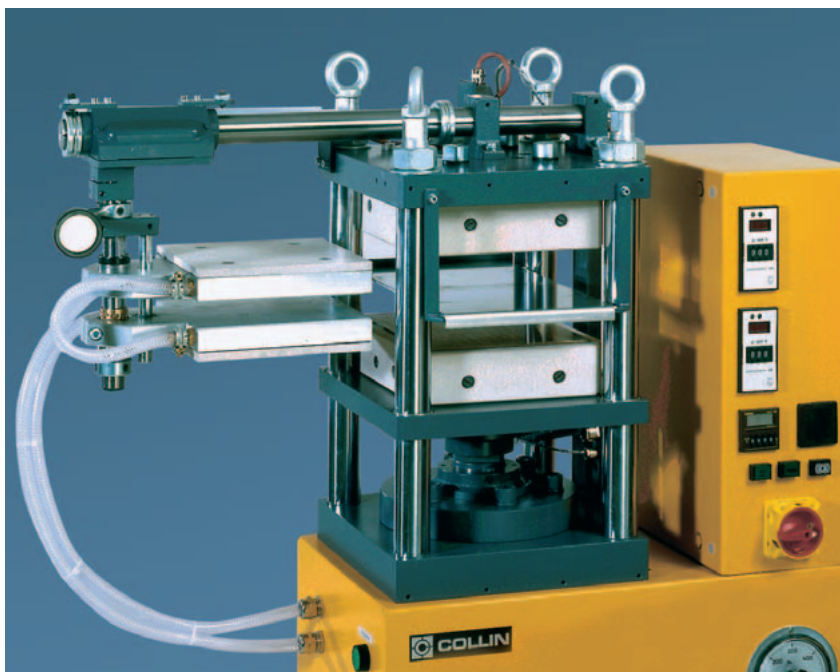
The control is semiautomatic by preselecting pressure, pressing and cooling time.

**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 when the heating time is elapsed.



**Technical data**

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

Design modifications reserved.

Version: 11E500

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