

CARVER®

LABORATORY AND MOLDING EQUIPMENT

CARVER, INC.

1569 Morris Street, P. O. Box 544
Wabash, Indiana 46992-0544 U.S.A.
Phone 260.563.7577 Fax 260.563.7625
<http://www.carverpress.com>

Hydraulic Compression Plastic/ASTM Presses for PE Sample Preparation

Plastic ASTM Presses



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No. 3710-ASTM

Model CMG30H-12-ASTM (Model "B")

Specially configured to perform compression molding of test plaque, bar specimens, polyethylene and other thermoplastic resins.

Carver ASTM presses are specially configured to perform the compression molding of test plaque or bar specimens of Type I, II, III, IV or V polyethylene and other thermoplastic resins. The procedure is in conformance with ASTM Method D 4703, Procedure C. The presses are equipped with heating/cooling platens and a programmable digital controller which has a heating/cooling loop for each platen and built-in program for the required 15°/minute +/-2°C cooling rate.

CLAMP SPECIFICATIONS

- 1 - 30 tons compression force (adjustable)
- 12" L-R x 12" F-B fully guided heated & cooled platens
 - Cartridge heaters 0 - 260 deg. C maximum operating temperature
 - Sized for 8 deg C / minute temperature rise
 - Solid state relays including over temperature protection
 - Platen Insulation, including perimeter
- Single opening with:
 - 6" - 12" open daylight (adjustable)
 - 0" - 6" closed daylight (shut height)
- Factory set @ 6"
- 5" bore NFPA style clamp cylinder (develops maximum clamping force at 3,055 psi)
- 6" stroke
- 42" lower platen operating height (approximate)
- Built-in lift truck tubes
- Black powder coated perforated metal safety guards around molding area with manual sliding, interlocked operator gate

HYDRAULIC SYSTEM

- Self-contained hydraulic system, including
 - 15-gallon reservoir with access panel and gauge for oil level and temperature indication
- Dual pump system with energy-efficient 2 HP TEFC motor
- Water-cooled heat exchanger
- Automatic low-pressure system
- 70 IPM closing speed
 - 5 IPM pressing speed
- 75 IPM opening speed

CONTROL SYSTEM

- NEMA-rated electrical control enclosure, including:
 - Allen Bradley MicroLogix™ 1200 programmable controller with 4" Panelview 800 color touch screen operator interface
 - West Pro-EC44 1/4 DIN digital temperature controllers for platen heating & ramp programmed cooling per ASTM D-4703 Procedure C

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Operating buttons, including two hand "anti-tie-down" circuit for cycle initiation
Indicating lights
Proximity switches to control "slow close" position and "cycle reset"
Clamp pressure relief valves and gauges
460/3/60 supply voltage
Non-fused disconnect
Full machine documentation on CD, including operating manual and drawings

The following calibrations and certifications are provided with the press:
Pressure calibration and certification traceable to NIST (10-point check)
Temperature controller calibration certification traceable to NIST (10-point check)
Temperature uniformity of platens
Platen parallelism
Certification of timers in PLC

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