CARVER®
Laboratory
Presses and
Accessories
SINCE 1912
ISO 9001:2015
Certified
The International Standard

For more than 100 years Carver hydraulic presses have been the standard for laboratories around the world. Carver Model C presses alone are in use in more laboratories than any other press. The current Carver line has been expanded and improved with more sizes, options, features, and quality performance than any other line of presses.

The Widest Choices

Standard choices now include two-column and four-column, benchtop and floor standing, and manual or automatic presses with clamping capacities from 0.5 to 100 tons. Automatic Auto Series presses include a user-friendly control system and integral safety enclosures. Accessories include self-contained, electrically operated AutoPak hydraulic power units for existing manual Carver presses.

Applications —
- Materials research: ceramics, composites, construction materials, cosmetics, drugs, pharmaceuticals, powder metals, printed circuit boards, rubber, silicone and other elastomers, soil, thermoplastic resins and thermostets
- Quality and performance testing of physical properties: compression strength, flexural strength, shear strength, flow and color dispersion
- Laboratory testing: ASTM test plaque or bar molds for polyethylene & polypropylene
- Other applications: composite molding, compression molding, crushing, laminating, encapsulation, extrusion, forming, insert pressing, producing KBr pellets for infrared spectroscopy, metal forming (dimpling), insert molding, oil extraction, pelletizing, specimen preparation, splice molding, splitting chilled oils, transfer molding, and vulcanizing

Specialized Applications

Special presses dedicated to specific applications include ASTM test plaque or bar molding, pellet making (KBr specimens for infrared and x-ray spectroscopy) and laminating.

Custom Presses

In addition to the models shown in this catalog, Carver designs and manufactures a wide variety of custom made presses and accessories to suit your specific application. Please consult the factory for any equipment not specifically listed in this catalog.

Contact us: Carver, Inc.
1569 Morris St.
Wabash, IN 46992-0544
Phone: 260-563-7577, Fax: 260-563-7625
E-mail: carverpress@acscorporate.com
Visit our store online at www.carverpress.com
ISO 9001:2015 Certified

Carver reserves the right to change specifications without notice. Presses and accessories may differ from photos shown.

Carver strongly recommends the use of a safety shield and personal protection equipment when operating Carver equipment.

Carver Inc 1569 Morris Street • Wabash Indiana USA • (P) 260-563-7577 • (F) 260-563-7625 • carverpress@acscorporate.com
1. Determine if you want a general laboratory press or one dedicated to a special application.
   - General .................. pages 4, 5, 6, 8, 9
   - Special .................. pages 7, 10, 11
2. Determine clamp force and choose benchtop or floor standing model.
   - Benchtop
     7.5 to 30 tons ............. pages 4, 5, 7, 8, 9, 10, 11
   - Floor Standing
     30 to 100 tons ..................... page 6
3. Decide if heated platens will be needed.
   - Heated Floor Models ........ pages 6, 11
   - Benchtop ........................ pages 5, 8
   - Unheated Floor Models ........ page 6
   - Benchtop ........................ pages 5, 9
4. Refer to specification tables for appropriate work area (platen size) and daylight opening (working height between platens).
5. Refer to photos and descriptions to select two- or four-column configuration.
6. Select heat control level desired and platen options on page 12.
7. Refer to pages 12 thru 15 to select appropriate accessories for your application.
8. Note the catalog numbers of your selections on your letterhead and email to: carverpress@acscorporate.com
   Or, contact us for prompt assistance:
   Phone: 260-563-7577
   Fax: 260-563-7625

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Carver Inc 1589 Morris Street • Wabash Indiana USA • (P) 260-563-7577 • (F) 260-563-7625 • carverpress@acscorporate.com
Automatic hydraulic laboratory presses in two- and four-post models up to 48 ton clamp capacity

Carver has incorporated over 100 years experience in laboratory presses into their automatic electrically powered benchtop presses for today’s labs. Each Auto Series Plus press has a built-in hydraulic system with a control system for accurate programmable operation. A variety of models are available ranging in clamp force capacity from 15 to 48 tons and work areas ranging from 6" x 6" to 18" x 18". Press models include two- or four-column, pelletizing, heated, unheated and cooled configurations. All presses have integral safety enclosures with a clear front door for operator safety and observation. AutoPak power units are available for existing manual presses (see page 16).

Carver RESERVED presses feature integral power unit for automatic operation

Many Carver Auto Series (and Manual presses) are available in CE configurations. Please contact Carver for pricing and availability.

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Carver, Inc. introduces their New Auto Series Plus Automatic Hydraulic Laboratory Presses. These new presses feature a 7” color operator interface, enhanced platen temperature control with auto-tuning, ramp heating capability, and real-time trending of force and temperature. Another enhancement includes storage of up to 250 recipes with recipe preview. Optional features include data logging for cycle parameters and a seven day timer for auto platen heat-up.

Auto Series Plus press models are available with 15 to 48 tons of clamping force and 6” x 6” to 18” x 18” platens. These benchtop presses are used in quality control, research and development for test sample preparations, destructive testing, molding, laminating and fluid extraction.

- Large 7” color touch screen operator interface
- Storage of up to 250 recipes
- Enhanced platen temperature control with auto-tuning
- Ramp heating capability
- Recipe preview
- Real-time trending of force and temperature
- Seven day timer for auto platen heat-up (optional)
- Datalogging of cycle parameters (optional)
- Access to logged data through Wi-Fi (optional)
- 48 ton models include an integral wrap-around floor stand

### Specifications

<table>
<thead>
<tr>
<th></th>
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Monarch Hydraulic Lab Presses
30, 50, 75, 100 ton capacity

Specifications

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<tr>
<th>Model</th>
<th>Maximum Capacity (tons)</th>
<th>Nominal Work Area (in)</th>
<th>Adjustable Daylight Opening</th>
<th>Cylinder Stroke (in)</th>
<th>Tie Rod Dia. (in)</th>
<th>Dimensions W x D (in)</th>
<th>Height (in)</th>
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Carver Inc 1569 Morris Street • Wabash Indiana USA • (P) 260-563-7377 • (F) 260-563-7625 • carverpress@acscorporate.com
Molding ASTM Test Specimens

Plastics, elastomers and other materials

Carver has developed three presses which are specially configured to perform the compression molding of test plaque or bar specimens of Type I, II, III or IV 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 program- mable digital controller which has a heating/cooling loop for each platen and built-in program for the required 15°/minute ±2°C cooling rate.

- **CMG 30H-12 ASTM Model B, 30 tons**
  - Floor standing, four-column, automatic press with heating/cooling platens and programmable controller.

- **No. 4391-ASTM Model 12-12H-ASTM, 12 tons**
  - Benchtop, four-column manual press with heating/cooling platens and programmable controller.

  + Optional Portable Chillers available upon request

### Proppant Crush Test Press

**Models CMG28-12-PCR & CMG40-12-PCR**

Compatible with ISO 13503-2:2006

For use with frac sand, resin coated sand and ceramic proppant

Carver Inc. is proud to introduce Models CMG28-12-PCR & CMG40-12-PCR Proppant Crush Test Presses. These Monarch Series presses meet the critical demands of ISO 13503-2:2006 with unsurpassed cycle repeatability. The proportional hydraulic system is capable of applying a constant rate of 13.8 MPa/min. (2000 PSI min.) from 2 ton to 28 ton clamp force within a ±2.5% deviation. The operator interface allows easy setup of press control parameters and includes ample recipe storage.

- 28 and 40 ton models
- Hardened plates: 12” L-R x 12” F-B fully guided platens to ensure parallelism
- Positive stop on plates for centering the crush die
- Open daylight: 6”-12”
- Cylinder stroke: 6”
- Self-contained hydraulic system
- Available with and without 2” ID crush die (compatible with ISO 13503-2)
- “Mini” Viewpoint control system including:
  - Allen Bradley programmable controller
  - PanelView Touch Screen Interface
  - Closed-loop control of clamp pressure
  - Recipe storage (up to 30 recipes of 24 segments)
  - Two hand close buttons
- Polycarbonate safety guards around molding area with manual sliding interlocked operator gate
- Dimensions: 47” W x 34” D x 74” H
- Weight: 1,900 lbs.

### ASTM Chase Frame Kits*

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<th>Teflon Coated Steel</th>
<th>Stainless Steel</th>
<th>Brass</th>
<th>Mylar Sheets</th>
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<td>4080</td>
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<td>6” x 6” x 1/8”</td>
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*Includes two aluminum back-up plates and 50 mylar sheets.

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Heated Manual Presses with Digital Temperature Controls & Safety Shields

7.5, 12, 25 and 30 ton capacity
(Thermostatic Temperature Control also available. Consult Factory for details)

Specifications

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<th>4120</th>
<th>4123</th>
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<td>0 to 10</td>
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NOTE: Pictures shown with both analog gauge and digital gauge. Standard manual presses come with analog gauge. Digital gauges available upon request. Consult factory for details. Information on digital gauges may also be found on page 13.

SPECIAL 30 TON HIGH TEMPERATURE (1,100°F) PRESSES AVAILABLE. Consult factory for details.
Standard Unheated Manual Presses

12, 25 and 30 ton capacity

For pelletizing, destructive testing, fluid extraction, pressure forming, etc.

12 TON PRESSES

No. 3850 (Mini C)
- Twelve ton, manual, two-column hydraulic press with 6" x 6" work area
- Compact and portable, requiring less bench space than our Model C
- This press is ideal for constructed bench space or glove box applications, as well as field work
- It features adjustable daylight, steel construction for rigid precision and includes safety shield for operator protection
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

No. 3851 (Model C)
- Twelve ton, manual, two-column hydraulic press
- Similar to Mini C above, but larger, heavier construction with daylight to 18" in.
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

No. 3968 (Model 12-10)
- Twelve ton, manual, two-column hydraulic press, with 10" x 7" work area
- Similar to No. 3851 press described above, but heavier construction with fully guided moving platen and daylight to 14"
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

No. 3969 (Model 12-12)
- Twelve ton, manual, four-column hydraulic press
- Fully guided moving platen assures parallelism over 12" x 12" surface
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

25 TON PRESSES

No. 3853 (Model M)
- Twenty-five ton, manual, two-column hydraulic press, with a 9" x 9" work area
- Daylight opening is adjustable
- Rigid cast iron and steel construction for precision and durability
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

No. 3855 (Model 25-12)
- Twenty-five ton, manual, four-column hydraulic press with a 12" x 12" work area
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

30 TON PRESSES

No. 3970 (Model 30-12)
- Thirty ton, manual, four-column, hydraulic press with a 12" x 12" work area
- Has two-speed pump, first stage for rapid closing and second for pressing mode
- Easy-to-read dual scale gauge, reading in pounds force and metric tons

Note: Existing Carver presses can be automated with an optional AutoPak power package (see back cover).

Note: Standard manual presses come with analog gauge (as shown in pictures). Digital gauges available upon request. Consult factory for details. Information on digital gauges may also be found on page 13.

Specifications

<table>
<thead>
<tr>
<th>Catalog Number with shield</th>
<th>3850</th>
<th>4350</th>
<th>3851</th>
<th>3968</th>
<th>3969</th>
<th>3853</th>
<th>3855</th>
<th>3970</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>Mini C</td>
<td>Pellet</td>
<td>Model C</td>
<td>12-10</td>
<td>12-12</td>
<td>Model M</td>
<td>25-12</td>
<td>30-12</td>
</tr>
<tr>
<td>Old Press*</td>
<td>3393</td>
<td>3620</td>
<td>2086</td>
<td>3724</td>
<td>2696</td>
<td>2089</td>
<td>2702</td>
<td>2698</td>
</tr>
<tr>
<td>Clamping Force</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tons (lb)</td>
<td>12 (24,000)</td>
<td>12 (24,000)</td>
<td>12 (24,000)</td>
<td>12 (24,000)</td>
<td>12 (24,000)</td>
<td>25 (50,000)</td>
<td>25 (50,000)</td>
<td>30 (60,000)</td>
</tr>
<tr>
<td>Platen (in)</td>
<td>6 x 6</td>
<td>4 round</td>
<td>6 x 6</td>
<td>10 x 7</td>
<td>12 x 12</td>
<td>9 x 9</td>
<td>12 x 12</td>
<td>12 x 12</td>
</tr>
<tr>
<td>Ram Stroke (in)</td>
<td>5.1</td>
<td>5.1</td>
<td>5.1</td>
<td>5.1</td>
<td>5.1</td>
<td>6.5</td>
<td>6.5</td>
<td>6</td>
</tr>
<tr>
<td>Daylight Opening (in)</td>
<td>0.75 to 7</td>
<td>0 to 5.50</td>
<td>0.75 to 18</td>
<td>1 to 14</td>
<td>1 to 15</td>
<td>0.75 to 16</td>
<td>1 to 14</td>
<td>1 to 17</td>
</tr>
<tr>
<td>Dimensions w x d (in)</td>
<td>12 x 16</td>
<td>10.5 x 15</td>
<td>15 x 16</td>
<td>17 x 18</td>
<td>21 x 28</td>
<td>19 x 24</td>
<td>21 x 28</td>
<td>29 x 27</td>
</tr>
<tr>
<td>Height (in)</td>
<td>25</td>
<td>23</td>
<td>39</td>
<td>39</td>
<td>44</td>
<td>42</td>
<td>42</td>
<td>46</td>
</tr>
<tr>
<td>Weight (lb)</td>
<td>125</td>
<td>115</td>
<td>200</td>
<td>345</td>
<td>560</td>
<td>350</td>
<td>600</td>
<td>625</td>
</tr>
</tbody>
</table>

*Use to refer to old models which are no longer available.
Manual Pellet Presses (4350, 4555 & 4565)
The compact 12, 40 or 50 ton Pellet Press with 4” diameter platens is perfectly suited for KBr pellet pressing. It can also be used for glove box applications, compound and formula testing, compression strength tests, fluid extractions and on-site field testing. Includes integral Safety Shield, buffer plate and 13mm evacuable die. (not shown in picture)

Specifications

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Max. Clamp Force, U.S. Tons (lb)</th>
<th>Platen Dia. (in)</th>
<th>Die (mm)</th>
<th>Ram Stroke (in)</th>
<th>Daylight Opening (in)</th>
<th>Footprint W x D (in)</th>
<th>Height (in)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4350</td>
<td>12 (24,000)</td>
<td>4</td>
<td>13</td>
<td>5.1</td>
<td>0.0 to 5.5</td>
<td>10.5 x 15.0</td>
<td>23</td>
<td>115</td>
</tr>
<tr>
<td>4350L</td>
<td>12 (24,000)</td>
<td>4</td>
<td>N/A</td>
<td>5.1</td>
<td>0.0 to 5.5</td>
<td>10.5 x 15.0</td>
<td>23</td>
<td>115</td>
</tr>
<tr>
<td>4555</td>
<td>40 (80,000)</td>
<td>4</td>
<td>31</td>
<td>6.0</td>
<td>0.0 to 6.0</td>
<td>32.5 x 15.0</td>
<td>31.2</td>
<td>400</td>
</tr>
<tr>
<td>4555L</td>
<td>40 (80,000)</td>
<td>4</td>
<td>N/A</td>
<td>6.0</td>
<td>0.0 to 6.0</td>
<td>32.5 x 15.0</td>
<td>31.2</td>
<td>400</td>
</tr>
<tr>
<td>4565</td>
<td>50 (100,000)</td>
<td>4</td>
<td>31</td>
<td>6.0</td>
<td>0.0 to 6.0</td>
<td>32.5 x 15.0</td>
<td>31.2</td>
<td>420</td>
</tr>
<tr>
<td>4565L</td>
<td>50 (100,000)</td>
<td>4</td>
<td>N/A</td>
<td>6.0</td>
<td>0.0 to 6.0</td>
<td>32.5 x 15.0</td>
<td>31.2</td>
<td>420</td>
</tr>
<tr>
<td>AutoPellet 3887</td>
<td>25 (50,000)</td>
<td>5</td>
<td>N/A</td>
<td>1</td>
<td>1.5 to 7.25</td>
<td>31.5 x 19.75</td>
<td>22 (+ handle)</td>
<td>400</td>
</tr>
<tr>
<td>AutoPellet 4387</td>
<td>40 (80,000)</td>
<td>5</td>
<td>N/A</td>
<td>1</td>
<td>1.5 to 7.25</td>
<td>32.5 x 19.75</td>
<td>22 (+ handle)</td>
<td>450</td>
</tr>
</tbody>
</table>

Note: Pellet Models with an "L" means less die. Additional Pellet Die sizes available below and on page 13 and 15 (sold separately).

Carver strongly recommends the use of a safety shield and personal protection equipment when operating Carver equipment.

Carver Inc 1569 Morris Street • Wabash Indiana USA • (P) 260-563-7577 • (F) 260-563-7625 • carverpress@acscorporate.com
Pneumatic Low Force & Laminating Presses

Pneumatic Low Force Press
Carver’s Pneumatic Low Force presses are fully guided with either two or four post construction. Benchtop or Floor Standing model presses available. The Pneumatic models provide accurate force control custom design to fit your specifications. Proportional force control or manual precision air regulator with analog gauge and/or digital force display options also available. Features include low friction seals in the clamp cylinder, linear ball bushings in the moving bolster and an optional integrated load cell design for accurate force feedback. Multiple clamp force and platen size configurations are available.

Please consult factory for details and available options.

Laminating Presses
Manually operated hydraulic laminating presses with stacked heating and cooling platens in bench top model. Thermostatic control, aluminium platens, heating one opening while simultaneously cooling the other results in faster production of laminated samples, plastic plaques and other R&D items. Temperature control 150-500 °F (Shown with analog gauge)

- No. 4130 (formerly 2112) Laminating Press, 12 ton capacity with Safety Shield
  Four 6" x 6" aluminum platens for one hot and one cold daylight opening.
  Thermostat control of heated platens in top opening as shown in picture to the left.

- No. 4132 (formerly 2630) Laminating Press, 30 ton capacity with Safety Shield
  Four 12" x 12" aluminum platens for one hot and one cold daylight opening.
  Digital control of heated platens in top opening.

Specifications — Laminating Presses

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>4130</th>
<th>4132</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model Number</td>
<td>150-C</td>
<td>30-12-L</td>
</tr>
<tr>
<td>Old Model Number*</td>
<td>2112</td>
<td>2630</td>
</tr>
<tr>
<td>Clamping Force, U.S. tons (lb)</td>
<td>12 (24,000)</td>
<td>30 (60,000)</td>
</tr>
<tr>
<td>Platen Size (in)</td>
<td>6 x 6</td>
<td>12 x 12</td>
</tr>
<tr>
<td>Stroke (in)</td>
<td>5-1/8</td>
<td>6</td>
</tr>
<tr>
<td>Daylight Openings (in)</td>
<td>2 @ 1-3/4</td>
<td>2 @ 3</td>
</tr>
<tr>
<td>Dimensions w x d x h (in)</td>
<td>16 x 19 x 39</td>
<td>32 x 27 x 46</td>
</tr>
<tr>
<td>Weight (lb)</td>
<td>265</td>
<td>1,000</td>
</tr>
<tr>
<td>Supply Voltage</td>
<td>115V or 230V - 1ph</td>
<td>230V - 1ph</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>150-500 °F</td>
<td>150-500 °F</td>
</tr>
</tbody>
</table>

*Use to refer to old models which are no longer available.

Note: Available in deg C upon request.

Carver reserves the right to change specifications without notice. Presses and accessories may differ from photos shown.
Carver strongly recommends the use of a safety shield and personal protection equipment when operating Carver equipment.

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Carver Heat Control Options

There are several levels of control for heating and cooling to give you a choice to meet the specific demands of your application.

- **Manual thermostat control**: Basic heated platens are controlled by an integral sensor and individual manual thermostats.
- **Digital control**: For more precise control, individual digital temperature controllers automatically control platen temperature from a separate control panel.

*No. 3984*

Digital control assembly for existing hotplates.

- **Manual cooling**: Manual water cooling permits hand operated cooling of platens with monitoring by analog thermometers for thermostatically controlled platens and digitally on the digital platen packages.

*Note: All heaters are single phase unless otherwise noted.*

---

### Specifications

<table>
<thead>
<tr>
<th>For Presses Catalog Number/Model</th>
<th>Platen Size (in)</th>
<th>Heated Platens Thermostat Control (230V available upon request)</th>
<th>Heated Platens Digital Control</th>
<th>Heating/Cooling Platens Thermostat Control</th>
<th>Heating/Cooling Platens Digital Control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3850/Mini C</strong></td>
<td>6 x 6</td>
<td><strong>2101</strong> - aluminum 150 to 500°F; 115V</td>
<td><strong>3796</strong> - steel to 650°F (115V)</td>
<td><strong>2103.1</strong> - steel 150 to 500°F</td>
<td><strong>3772</strong> - steel, with hoses to 650°F (115V)</td>
</tr>
<tr>
<td><strong>3853/Model M</strong></td>
<td>9 x 9</td>
<td><strong>2107.1</strong> - steel 150 to 500°F; 115V</td>
<td><strong>3973</strong> - steel to 650°F (230V)</td>
<td><strong>2108.1</strong> - steel 150 to 500°F</td>
<td><strong>3972</strong> - steel, with hoses to 650°F (230V)</td>
</tr>
<tr>
<td><strong>4130/150-C</strong></td>
<td>12 x 12</td>
<td><strong>3906</strong> - steel to 650°F (230V)</td>
<td></td>
<td><strong>3749</strong> - steel with hose assemblies to 650°F (230V)</td>
<td></td>
</tr>
<tr>
<td><strong>Four-column Presses</strong></td>
<td>15 x 15</td>
<td><strong>6316</strong> - steel to 650°F (230V)</td>
<td></td>
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</tr>
</tbody>
</table>

**Optional Heat Tube Platens Available**

For both Carver Benchtop and Floor Standing Presses

### Accu-Heat™ Heat Tube Platens

- For heat uniformity
  - Accuracy and uniformity up to ±1°F approx.
  - Standard sizes include: 6” x 6”, 9” x 9”, 12” x 12”, 15” x 15”, 18” x 18” and 24” x 24”
  - Custom engineered sizes quoted upon request
  - 500°F maximum temperature
  - Heated/cooled configuration also available
  - Can be designed to fit existing Carver or other brand presses
  - Contact factory for details and/or to request a quotation
### Laboratory Accessories for Carver Presses

#### Molds, Dies and Test Cylinder Specifications

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Sample Dimensions</th>
<th>SampleThicknesses</th>
<th>Maximum Applied Load</th>
</tr>
</thead>
<tbody>
<tr>
<td>818701D</td>
<td>Tile Mold, 440 Stainless Steel</td>
<td>50mm x 50mm</td>
<td>1mm, 2mm &amp; 5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>818702D</td>
<td>Tile Mold, 440 Stainless Steel</td>
<td>100mm x 100mm</td>
<td>1mm, 2mm &amp; 5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>818703D</td>
<td>Tile Mold, 440 Stainless Steel</td>
<td>150mm x 150mm</td>
<td>1mm, 2mm &amp; 5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>818704C</td>
<td>Color Dispersion, 440 Stainless Steel</td>
<td>50mm diameter</td>
<td>0.1mm, 0.2mm &amp; 0.5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>818705C</td>
<td>Color Dispersion, 440 Stainless Steel</td>
<td>100mm diameter</td>
<td>0.1mm, 0.2mm &amp; 0.5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>4417</td>
<td>Pellet Die, 440 Stainless Steel</td>
<td>6mm</td>
<td>N/A</td>
<td>3,500 Lbs Max</td>
</tr>
<tr>
<td>4946</td>
<td>Pellet Die, 440 Stainless Steel</td>
<td>12mm</td>
<td>N/A</td>
<td>13,000 Lbs Max</td>
</tr>
<tr>
<td>3619</td>
<td>Pellet Die, 440 Stainless Steel</td>
<td>13mm</td>
<td>N/A</td>
<td>18,000 Lbs Max</td>
</tr>
<tr>
<td>4369</td>
<td>Pellet Die, 440 Stainless Steel</td>
<td>25mm</td>
<td>N/A</td>
<td>47,000 Lbs Max</td>
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<tr>
<td>3902</td>
<td>Pellet Die, 440 Stainless Steel</td>
<td>31mm</td>
<td>N/A</td>
<td>60,000 Lbs Max</td>
</tr>
<tr>
<td>3876</td>
<td>Pellet Die, 440 Stainless Steel</td>
<td>40mm</td>
<td>N/A</td>
<td>70,000 Lbs Max</td>
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<tr>
<td>2090-0</td>
<td>Test Cylinder, 440 Stainless Steel</td>
<td>1.125&quot;</td>
<td>N/A</td>
<td>19 US Tons Max</td>
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<tr>
<td>2091-5</td>
<td>Test Cylinder, 440 Stainless Steel</td>
<td>2.25&quot;</td>
<td>N/A</td>
<td>51 US Tons Max</td>
</tr>
<tr>
<td>818698D</td>
<td>Tile Mold, 440 Stainless Steel</td>
<td>4” x 4”</td>
<td>1mm, 2mm &amp; 5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>818699D</td>
<td>Tile Mold, 440 Stainless Steel</td>
<td>6” x 6”</td>
<td>1mm, 2mm &amp; 5mm</td>
<td>N/A</td>
</tr>
<tr>
<td>818700D</td>
<td>Tile Mold, 440 Stainless Steel</td>
<td>10” x 10”</td>
<td>1mm, 2mm &amp; 5mm</td>
<td>N/A</td>
</tr>
</tbody>
</table>

#### Special Application Test Cylinder (See page 7)

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5456</td>
<td>Based on ISO 13503-2:2006(E) Crush Cell; Cell: 2” ID x 3.38” tall including removeable base, wall thickness is &gt;0.5” Piston: 3.5” tall; All parts constructed of D2 Tool Steel, hardened to 52-56 Rockwell C</td>
</tr>
</tbody>
</table>

---

**No. 2092 Swivel Bearing Plates**

Carver presses are frequently used for crushing and breaking tests of standard 2” x 2” cubes and 2” x 4” cylinders of concrete samples or similar crushing tests. Swivel Bearing Plates adjust slightly to the sample to assure proper application of pressure. **Requires safety shield.**

**No. 818744C Punch and Die Holder**

This punch and die holder permits off-line testing of pellet and tablet samples. It works with standard BB2 production tooling in most Carver presses, including Auto Series presses. The set includes an anodized aluminum holding fixture, steel shims to adjust for various size samples, and an anodized aluminum ejector. (does not include dies)

**No. 2096CE & 2096-1CE Two Gauge Manifolds**

The 2096CE is for most standard manual presses, except the Mini C. The 2096-1CE is specifically designed for the Mini C Model Press only. These manifolds permit mounting of both high (right) and low (left) range gauges for more precise application of force. Hand operated shut-off valve protects low pressure gauge when using high pressure. **Analog Gauges sold separately. (see page 15)**

**No. 6306 Digital Gauge**

Optional digital force gauges for manual presses. Available in 10 or 100 pound increments. They are scaled per press model. Approximate accuracy: ± 1% of reading between 1,000 lbs up to maximum tonnage of press (12, 25 or 30 tons). Consult factory for press details.

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**FLOOR STANDS** Designed for most models

<table>
<thead>
<tr>
<th>Catalog/Item Number</th>
<th>Description</th>
<th>Dimensions H x W x D</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>223160C</td>
<td>Press Stand (Model 3650 &amp; 3693 presses)</td>
<td>30” x 23.5” x 23.5”</td>
<td>150#</td>
</tr>
<tr>
<td>223171D</td>
<td>Press Stand (2 &amp; 4 column presses)</td>
<td>30” x 19” x 19”</td>
<td>125#</td>
</tr>
<tr>
<td>223215C</td>
<td>Press Stand (2 &amp; 4 column presses with 6” casters)</td>
<td>30” x 30” x 30”</td>
<td>260#</td>
</tr>
<tr>
<td>223321D</td>
<td>Press Stand for Standard PL Auto Series presses (excluding 48 ton models)</td>
<td>24” x 51” x 23.5”</td>
<td>385#</td>
</tr>
<tr>
<td>223319C</td>
<td>Press Stand for Standard PL Auto Series presses with 6” casters (excluding 48 ton models)</td>
<td>24” x 51” x 23.5”</td>
<td>385#</td>
</tr>
</tbody>
</table>

**SAFETY SHIELDS**

<table>
<thead>
<tr>
<th>Catalog/Item Number</th>
<th>Description</th>
<th>Dimensions Work Area</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3404</td>
<td>Mini™ Presses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3295</td>
<td>Model A™ Presses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3253</td>
<td>Model B™ Presses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3322</td>
<td>Presses with 10” x 7” Work Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3418</td>
<td>Presses with 12” x 12” Work Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4427</td>
<td>Presses with 15” x 15” Work Area</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ACCESSORIES**

Catalog number cross reference index

**HEATING/CoolING**

Platens for Model C Presses (also available in deg C upon request)

2101 Set of (2) 6” x 6” heated, aluminum platens, thermostatically controlled, 150°C/500°F (Specify 115 or 230V)

2102.1 Set of (2) 6” x 6” heated, steel platens, thermostatically controlled, 150°C/500°F, (Specify 115 or 230V)

3796 Set of (2) 6” x 6”, heated, steel platens, digitally controlled, 650°F, 115V

4286 Set of (2) 6” x 6”, heated, steel platens, digitally controlled, 650°F, 230V

2103.1 Set of (2) 6” x 6” heated and cooled, steel platens, thermostatically controlled, 150°C/500°F with hoses (Specify 115 or 230V)

2104 Set of (2) 6” x 6” aluminum cooling plates, with valve and hose assemblies

3772 Set of (2) 6” x 6” heated & cooled steel platens, digitally controlled, 650°F, 115V

3988 Set of (2) 6” x 6” heated & cooled steel platens, digitally controlled, 650°F, 230V

2105 Set of (2) 6” x 6” aluminum steam plates, with insulation and braided hoses

3772 Platens for Model M Presses (also available in deg C upon request)

2107.1 Set of (2) 9” x 9” heated, steel platens, thermostatically controlled, 150°C/500°F, (Specify 115 or 230V)

3749 Set of (2) 12” x 12” heated and cooled steel platens, digitally controlled, 650°F, 230V

6316 Set of (2) 15” x 15”, heated, steel platens, digitally controlled, 650°F, 230V

**Laboratory Accessories for Carver Presses**

Repair parts for (gray) Carver hydraulic units. Repair kits contain hydraulic oil, seals, gaskets, pins, fittings, valve parts and jack handle bracket for quick maintenance. (Restrictions apply, visit carverpress.com for details)

- **No. 3729 12 ton hydraulic unit repair kit**
- **No. 3730 25 ton hydraulic unit repair kit**
- **No. 319002 pump assembly for 12 & 25 ton jacks**

Carver reserves the right to change specifications without notice. Presses and accessories may differ from photos shown.

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Accessories for Many Applications

MOLDS AND DIES
(See page 10 & 13)

Test Cylinders & Pellet Dies
2090-0 Test cylinder outfit, 1.125” ID
2090-1 Set of 12 filter pads for 1.125” ID TCO’s
2091-5 Test cylinder outfit 2.25” ID
2091-1 Set of 12 filter pads for 2.25” ID TCO’s
237005 Stainless steel pan for either TCO size
4417 6mm pellet die, 440 stainless steel
4946 12mm pellet die, 440 stainless steel
3619 13mm pellet die, 440 stainless steel
4369 25mm pellet die, 440 stainless steel
3902 31mm pellet die, 440 stainless steel
3876 40mm pellet die, 440 stainless steel
4546 2” ID Proportant Crush Test Cylinder based on ISO 13503-2:2008(E) Page 7 & 13
2092 Swivel bearing plate (Requires safety shield)
2095 KBr buffer plate
818744C Pharmaceutical pellet die holder

ASTM Molds
(See pages 7 and 13)
4079 4” x 4” chase assembly, Teflon
4080 4” x 4” chase assembly, Stainless steel
4081 4” x 4” chase assembly, Brass
4082 6” x 6” chase assembly, Teflon
4083 6” x 6” chase assembly, Stainless steel
4084 6” x 6” chase assembly, Brass
4085 8” x 8” chase assembly, Teflon
4086 8” x 8” chase assembly, Stainless steel
4087 8” x 8” chase assembly, Brass
4161 (100) 6” x 6” mylar sheets for 4” x 4” molds
4162 (100) 8” x 8” mylar sheets for 6” x 6” molds

4163 (100) 10” x 10” mylar sheets for 8” x 8” molds

Tile Molds and Color Dispersion Disc Molds
(See page 13)
818698D 4” x 4” tile mold, 1mm, 2mm & 5mm thick, Stainless steel
818699D 6” x 6” tile mold, 1mm, 2mm & 5mm thick, Stainless steel
818701D 50mm x 50mm tile mold, 1mm, 2mm & 5mm thick, Stainless steel
818702D 100mm x 100mm tile mold, 1mm, 2mm & 5mm thick, Stainless steel
818703D 150mm x 150mm tile mold, 1mm, 2mm & 5mm thick, Stainless steel
818704C 50mm diameter color dispersion disc, 0.2mm, 0.5mm thick, Stainless steel
818705D 100mm diameter color dispersion disc, 0.1mm, 0.2mm & 0.5mm thick, Stainless steel

TESTING/PROCESSING
Polished Plates
(For laminating applications)
235020 SS Plate with #8 mirror finish, polished on 1 side, 0.03” thick
235021 SS Plate with #8 mirror finish, polished on 1 side, 0.03” thick
235022 SS Plate with #8 mirror finish, polished on 1 side, 0.03” thick
235023 SS Plate with #8 mirror finish, polished on 1 side, 0.03” thick

Heated Test Cylinders
2472 1.125” heated test cylinder
2417 2.25” heated test cylinder

SAFETY SHIELDS
(See page 14)

3404 For most Mini C Presses
3295 For most Model C Presses
3253 For most Model M Presses
3322 For most presses with 10” x 7” plates
3418 For most presses with 12” x 12” plates
4427 For 3690 and 3693 with 15” x 15” plates

Two Gauge Manifold
(See page 13)
2096 $\text{C} \xi$ Two gauge manifold
2098 $\xi C$ (mini C only)

Dial Thermometers
385001 Dial face thermometer 150°F to 750°F
385019 Dial face thermometer 50°C to 400°C

HYDRAULIC UNITS
(Specify press Serial Number)
3912 12 ton hydraulic unit
3925 25 ton hydraulic unit
321007 Pump and reservoir for 30 ton presses
3467-0 Hydraulic cylinder for 30 ton presses
3729 12 ton repair kit (gray only)
3730 25 ton repair kit (gray only)
2170 Carver hydraulic fluid (pint size)

AUTOPAK™ POWER UNITS
(See page 16)
3946NE AutoPak/12, for 12 ton existing manual presses.
3947NE AutoPak/25, for 25 ton existing manual presses.
3948NE AutoPak/30, for 30 ton existing manual presses.

FLOOR STANDS
(See page 14)
223160C Press stand for 3690 & 3693 presses
223171D Press stand for 2 column and 4 column presses
223215C Press stand for standard PL Auto Series presses (excluding 48 ton models)
223321D Press stand for standard PL Auto Series presses with casters (excluding 48 ton models)
223319C Press stand for standard PL Auto Series presses with casters (excluding 48 ton models)

Please feel free to visit our store by going to www.carverpress.com and/or consult factory for additional parts/accessories

Carver strongly recommends the use of a safety shield and personal protection equipment when operating Carver equipment.

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Add Power to Existing Presses

AutoPak™ Power Units

- Self-contained 1/4 HP hydraulic power unit
- Develops maximum clamping force for most of our 12, 25 and 30 ton manual press models (minimum 1,000 lbs)
- Six feet of hose for connecting to existing Carver hand operated press
- Programmable control system (force only)
  - Touch screen interface
  - 10 recipe storage capability
  - 20 programmable segments of clamp force and dwell time per recipe
  - Programmable in units of pounds (also available in Kg, US tons, and metric tons)
- Automatic bump sequence (can be programmed in any or all segments)
- Two-hand “anti-tie-down” close buttons for operator safety
- Interlocked switch for existing safety shield door included
  (See page 14 for recommended safety shield)
- 115V 1-Ph or 230V 1-Ph supply voltage (please specify)
- Electrical disconnect (non-fused)
- Approximate dimensions & weight: 24” L x 20” W x 21” H, 130 lbs

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Model</th>
<th>Capacity (tons)</th>
<th>Supply Voltage (230V available upon request)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3946-NE</td>
<td>AutoPak/12</td>
<td>0.5 - 12</td>
<td>115V 1-Ph</td>
</tr>
<tr>
<td>3947-NE</td>
<td>AutoPak/25</td>
<td>0.5 - 25</td>
<td>115V 1-Ph</td>
</tr>
<tr>
<td>3948-NE</td>
<td>AutoPak/30</td>
<td>0.5 - 30</td>
<td>115V 1-Ph</td>
</tr>
</tbody>
</table>

Specify press model and serial number when ordering

Custom Presses

Customized presses can be configured from the many options and accessories listed in this catalog. In addition, Carver engineers will work with you to design special presses for your particular application. Consult the factory for more information. Press shown is a custom designed Auto Series four column press with casters and built in floor stand.

Carver Warranty

Carver Inc. warrants all equipment we manufacture to be free from defects in workmanship and material when used under recommended conditions. The Company’s obligation under this warranty is limited to those parts which within twelve (12) months from delivery of equipment to original purchaser are returned to the factory with transportation prepaid, and upon examination shall disclose them to be defective. Carver neither assumes, nor authorizes any other persons to assume any liability in connection with the sale of its equipment except under the conditions of this warranty.

This warranty does not cover any labor charges for replacement of parts, adjustment, repair or any other work done. This warranty shall not apply to any apparatus which in our opinion has been subjected to misuse, negligence or pressures in excess of limits recommended, or which shall have been repaired or altered outside of the Carver factory.

Replacement of defective material(s) will be FOB the Carver factory. Replacement of component parts not of its manufacture will be limited to the warranty of the manufacturers of such parts.

Warranty claims: Please contact our Service Department at 260-563-7577 ext 5238 or service@corpemail.com

Rely on Carver and WABASH Presses for Every Need

Carver, Inc. and WABASH MPI are sister companies located in Wabash, Indiana. For over 75 years WABASH MPI has met the challenge of designing and manufacturing standard and special presses for industry worldwide. Parts, service and support information are readily available. Ask to see installations of Carver or WABASH presses performing productively in your area. Consult with us to discuss all of your molding requirements.

WABASH manufactures 15 to 1,000 ton molding machines for elastomers and thermoplastics, Compression molding machines, C-Frame presses, Vacuum chamber molding and laminating presses and Trim presses. For more information on any of our presses call 260-563-1184, fax 260-563-1396, email: wabashleads@acscorporate.com, or visit our website at www.wabashmpi.com.

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