

# CARVER<sup>®</sup>

100th ANNIVERSARY  
1912-2012

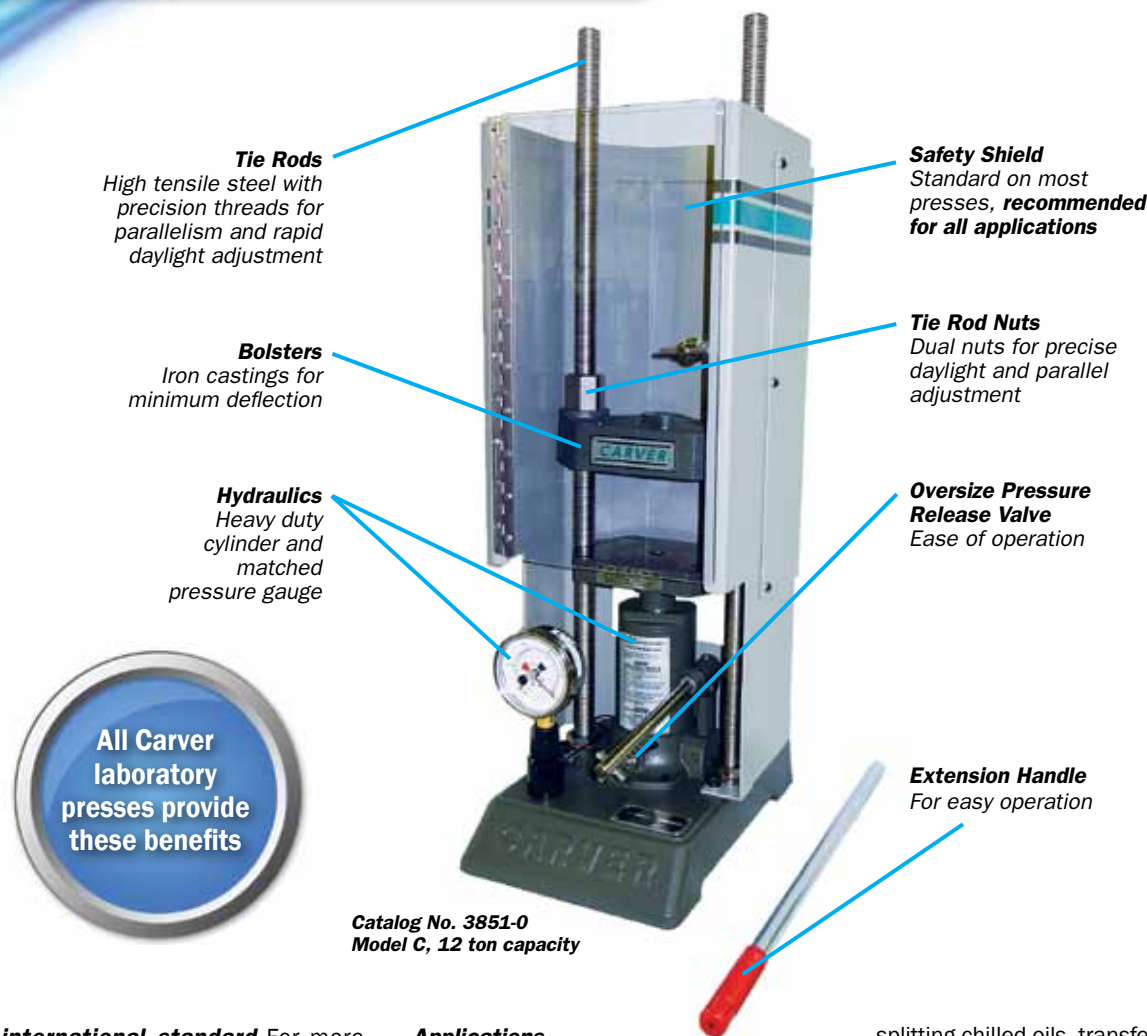
## *Laboratory Presses and Accessories*



**ISO 9001:2008  
Certified**

# CARVER®

## The World's Most Popular Laboratory Presses



**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 and automatic presses with clamping capacities from 12 to 100 tons. Automatic "Auto Series" presses include user-friendly microprocessor based controls and integral safety enclosures. Accessories include new self-contained, electrically operated AutoPak hydraulic power unit for retrofit to 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 thermosets.
- **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.
- **Laminating:** credit cards, ID cards, plaques and printed circuit boards.
- **Other applications:** composite molding, compression molding, crushing, 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 rubber stamps.

**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), laminating and rubber stamp molding.

**Custom presses, too** 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.**  
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**www.carverpress.com**  
**ISO 9001:2008 Certified**



# More Choices, More Features, More Performance



## How to select the right Carver press for your application:

- 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
- Determine clamp force and choose benchtop or floor standing model.  
**Benchtop**  
12 to 30 tons ..... pages 4, 5, 7, 8, 9, 10, 11  
**Floor Standing**  
30 to 100 tons ..... pages 6, 11
- 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
- Refer to specification tables for appropriate work area (platen size) and daylight opening (working height between platens).
- Refer to photos and descriptions to select two- or four-column configuration.
- Select control level desired and platen options on page 12.
- Refer to pages 12 thru 15 to select appropriate accessories for your application.
- Note the catalog numbers of your selections on your letterhead and fax to 260-563-7625.  
Or, contact us for prompt assistance:  
phone: 260-563-7577  
email: carverpress@corpemail.com

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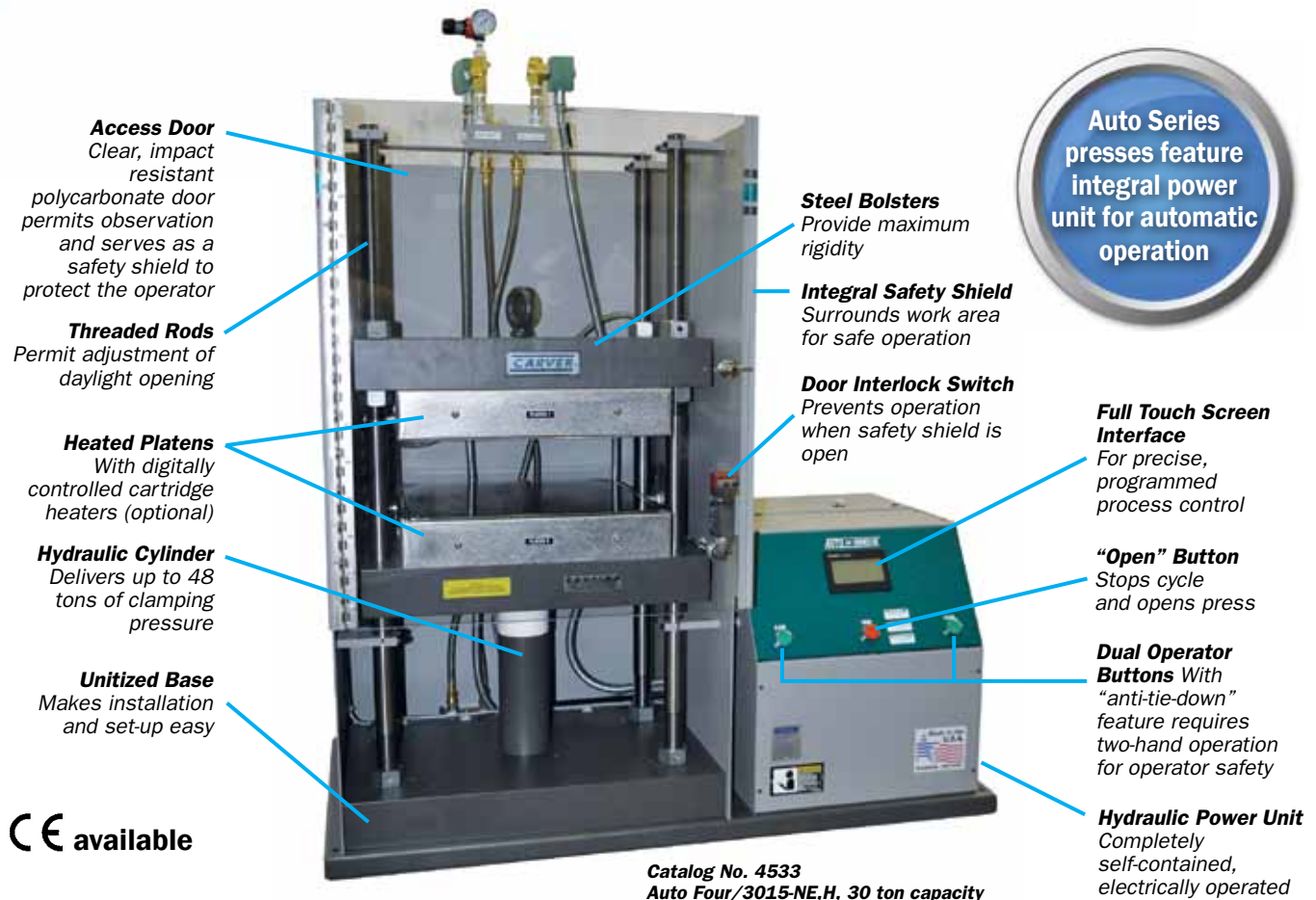
**WABASH hydraulic presses and molding machines .....16**

**Cover photo:** Carver presses molding medical components.

# CARVER®

## Auto Series Compact Automatic Benchtop Presses 15 to 48 ton capacity

### Automatic hydraulic laboratory presses in two- and four-post models up to 48 ton clamp capacity



CE available

### Carver's Auto Series presses bring a world of power and control options to your lab



Carver Auto "C" presses molding medical components.\*

Carver has incorporated more than 100 years of experience in laboratory presses into this line of automatic electrically powered benchtop presses for today's labs. Each has a built-in hydraulic system with a microprocessor control for accurate programmable operation. Five models are available ranging in clamp force capacity from 15 to 48 tons, including a pelletizing press and two- or four-column models. All have integral safety enclosures with a clear front door for operator safety and observation.



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

\*AutoPak power unit available for existing presses. (See page 16)

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.

# A Complete Line of Automatic Electrically Powered Benchtop Presses for the Laboratory or Manufacturing Facility

**Auto Series "NE"  
Control Panel**

**Dual "Close" Buttons**  
Require two-hand  
operation for operator  
protection



**Full Touch Screen  
Interface**

Degree setting for  
Fahrenheit and Celcius  
Units of measure setting  
for lbs., Kg., U.S. tons  
& metric tons

**"Open" Button**  
Single button  
opens press

## "NE" Control Description:

The new Auto Series automatic hydraulic laboratory presses, features the enhanced "NE" digital control system. Offering 15 to 48 tons of clamping force and 6" x 6" to 18" x 18" platens, these benchtop presses are used in quality control and research and development for test sample preparations, destructive testing, molding, laminating and fluid extraction.

The new "NE" controls feature full touch screen interface, proximity switch for adjustable slowdown position and all heat controlled through PLC and interface. The "NE" controls can easily switch between degrees Fahrenheit and degrees Celsius and between pounds, kilograms, tons and metric tons. Auto reheat at the end of a cycle and automatic bump sequence can be programmed.

- Proximity switch for adjustable slowdown position
- Full touch screen interface
- PLC and interface controls all heat
- Degree setting for Fahrenheit and Celsius
- Units of measure setting for lbs., Kg., U.S. tons and metric tons
- Selection for auto reheat at end of cycle
- Programmable automatic bump sequence in any of the 20 segments
- 1,000 lb. minimum clamp force

## Specifications

Model	Catalog Number	Max. Clamp Force, Tons (lb)	Heated Platens	Platen Size (in)	Ram Stroke (in)	Daylight Opening (in)	Dimensions W x D (in)	Height (in)	Weight (lb)
Auto C-NE	3888	15 (30,000)	No	6 x 6	6	.75 to 17	37 x 22	42.50	350
Auto C-NE,H	3889	15 (30,000)	Yes	6 x 6	6	0 to 14	37 x 22	42.50	400
Auto M-NE	3890	25 (50,000)	No	9 x 9	6	.75 to 16	37 x 22	45	570
Auto M-NE,H	3891	25 (50,000)	Yes	9 x 9	6	0 to 12	37 x 22	45	630
AutoFour/1512-NE	3892	15 (30,000)	No	12 x 12	6	1 to 17	44.50 x 27.75	46	850
AutoFour/1512-NE,H	3893	15 (30,000)	Yes	12 x 12	6	0 to 12	44.50 x 27.75	46	1,050
AutoFour/1515-NE	4530	15 (30,000)	No	15 x 15	6	8 to 17	44.50 x 27.75	46	1,200
AutoFour/1515-NE,H	4531	15 (30,000)	Yes	15 x 15	6	2 to 12	44.50 x 27.75	46	1,500
AutoFour/3012-NE	3894	30 (60,000)	No	12 x 12	6	1 to 17	44.50 x 27.75	46	850
AutoFour/3012-NE,H	3895	30 (60,000)	Yes	12 x 12	6	0 to 12	44.50 x 27.75	46	1,050
AutoFour/3015-NE	4532	30 (60,000)	No	15 x 15	6	8 to 17	44.50 x 27.75	46	1,200
AutoFour/3015-NE,H	4533	30 (60,000)	Yes	15 x 15	6	2 to 12	44.50 x 27.75	46	1,500
AutoFour/4815-NE	5400	48 (96,000)	No	15 x 15	4	6 to 19	55 x 36	72	3,074
AutoFour/4815-NE,H	5401	48 (96,000)	Yes	15 x 15	4	0 to 15	55 x 36	72	3,384
AutoFour/4818-NE	5402	48 (96,000)	No	18 x 18	4	6 to 19	55 x 36	72	3,074
AutoFour/4818-NE,H	5403	48 (96,000)	Yes	18 x 18	4	0 to 15	55 x 36	72	3,444



# CARVER®

## Monarch Hydraulic Lab Presses

30, 50, 75, 100 ton capacity

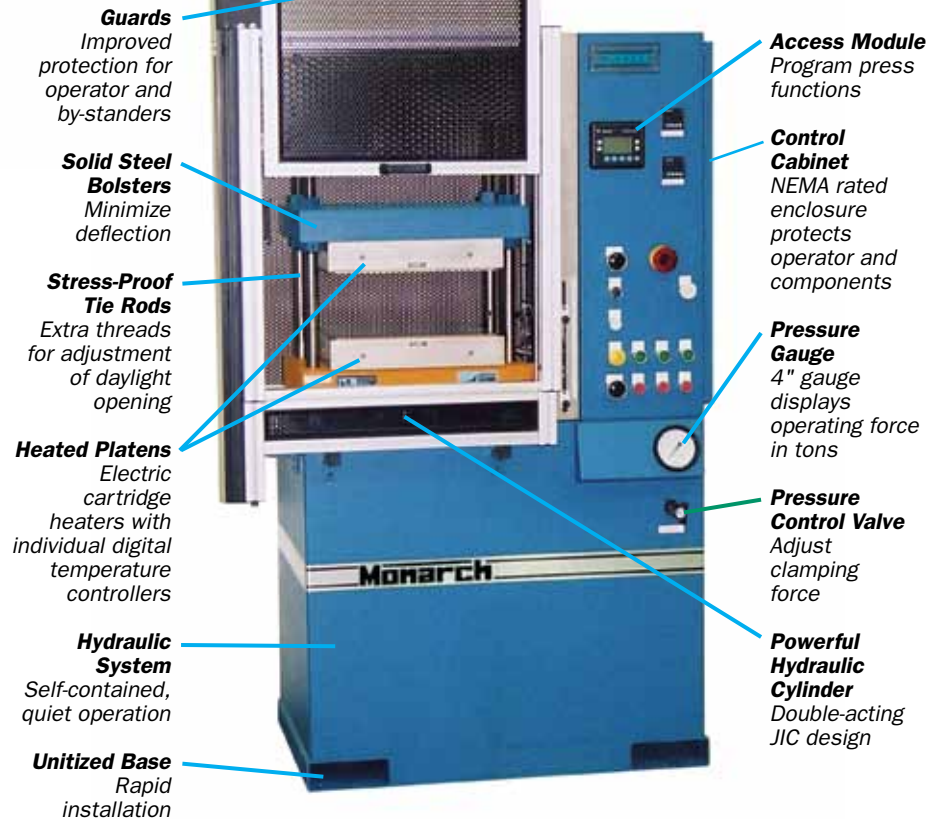
Carver's Monarch laboratory presses with integral hydraulic system and high technology options are based on standard production press models adapted to precision laboratory requirements.

Recommended for testing or research, compacting, molding rubber or plastic, laminating and assembly where stripping force is required.

Standard features include double-acting J.I.C. style cylinder for power open and power close. An integral hydraulic reservoir is easily accessible for cleaning and includes a strainer or cartridge filter, air filter/breather, oil level indicator and oil cooler. A programmable controller with access module is standard.

Optional equipment includes electrically heated platens to 500°, 800° or 1200°F, with digital temperature controllers, low pressure system, pressing speed control and automatic platen cooling.

CE available



## Specifications

Model	Maximum Capacity (tons)	Nominal Work Area (in)	Adjustable Daylight Opening*	Cylinder Stroke (in)	Tie Rod Dia. (in)	Floor Space W x D (in)	Height (in)	Approx. Weight (lb)
CMG 30H-15	30	15 x 15	6 to 12	6	1.25	42 x 40	72	1,850
CMG 30H-12 ASTM	30	12 x 12	6 to 12	6	1.25	43 x 40	72	1,850
CMG 50H-12	50	12 x 12	8 to 16	8	1.75	60 x 38	78	4,800
CMG 50H-15	50	15 x 15	8 to 16	8	1.75	60 x 38	78	4,800
CMG 50H-18	50	18 x 18	8 to 16	8	1.75	60 x 38	78	5,000
CMG 50H-24	50	24 x 24	8 to 16	8	1.75	66 x 38	78	5,600
CMG 75H-15	75	15 x 15	8 to 16	8	2	63 x 38	78	5,300
CMG 75H-18	75	18 x 18	8 to 16	8	2	69 x 38	78	5,500
CMG 75H-24	75	24 x 24	8 to 16	8	2	69 x 38	78	6,100
CMG 100H-15	100	15 x 15	12 to 22	12	3	66 x 38	78	7,000
CMG 100H-18	100	18 x 18	12 to 22	12	3	66 x 38	78	7,000
CMG 100H-24	100	24 x 24	12 to 22	12	3	72 x 38	78	7,500

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.**

## Presses for Special Applications



**Model "B"  
3710-ASTM**



**No. 4391-ASTM  
with Safety Shield**



**No. 4393-ASTM &  
No. 4394-ASTM  
with Safety Shield**

### Molding ASTM Test Specimens *Plastics, elastomers and other materials*

Carver has developed the following 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 programmable digital controller which has a heating/cooling loop for each platen and built-in program for the required 15 °/minute  $\pm 2^{\circ}\text{C}$  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.

#### ■ No. 4393-ASTM Model AutoFour/15P-ASTM, 15 tons & No. 4394-ASTM Model AutoFour/30P-ASTM, 30 tons

Carver Auto Series self-contained press with heating/cooling platens and programmable controller. See pages 4 & 5 for press description.

### ASTM Chase Frame Assemblies

Description	Catalog Number			100 Mylar Sheets
	Teflon Coated Steel	Stainless Steel	Brass	
4"x 4"	4079	4080	4081	4161
6"x 6"	4082	4083	4084	4162
8"x 8"	4085	4086	4087	4163

### Portable Chillers

#### GP Series, 5-15 HP

- Environmentally friendly, R410a refrigerant
- Branch motor fusing
- "Y" strainer on process water line to evaporator
- Off-the-shelf modular controller is accurate to within  $\pm 1^{\circ}\text{F}$  ( $\pm 0.6^{\circ}\text{C}$ )
- Easy-to-read LCD display showing system operating status, Set Point and To-Process temperature; remote mount without special configuration
- Multiple screen, 20 character x 8 line display
- Stamped, stainless steel, horizontally mounted pump assures reliability
- Air-cooled units feature aluminum fin tube condensers with easy on/off, washable air filters
- Water-cooled units equipped with water regulating valves with tube-in-tube condensers
- Electronic hot gas bypass valve



# CARVER®

## Heated Presses with Digital Temperature Controls & Safety Shields 7.5, 12, 25 and 30 ton capacity

Used for molding, laminating, embossing,  
and bonding of various materials



No. 3690

No. 4386

No. 4120

No. 3856

No. 4126

No. 4128

### 7.5 TON PRESSES

#### ■ No. 3690

(Model 7.5-15H) Seven and a half ton, four-column press with 15" x 15" electrically heated platens. Designed for applications needing lower force over a larger area. Shown with optional digital gauge.

### 12 TON PRESSES

#### ■ No. 4386

(Model CH) Twelve ton, manual, two-column hydraulic lab press with digital heated platens. Daylight to 15". Easy-to-read dual scale gauge is calibrated in pounds and metric tons.

#### ■ No. 4120

(Model 12-10H) Twelve ton, manual, two-column hydraulic press. Similar to No. 4386 press, but heavier construction and guided moving platen. Has electrically heated 10" x 7" platens for temperatures to 650°F with digital controller for each platen. Easy-to-read dual scale gauge is calibrated in pounds and metric tons.

#### ■ No. 4122

(Model 12-12H) Twelve ton, manual, four-column hydraulic press. Four-post construction assures parallelism over 12" x 12" surface. Easy-to-read dual scale gauge is calibrated in pounds and metric tons. Has electrically

heated platens for temperatures to 650°F with digital controller for each platen.

#### ■ No. 4123

(Model 12-12-2H) Same press as No. 4122 except has four electrically heated platens with two 3" daylight. Optional water cooled platens are also available.

### 25 TON PRESSES

#### ■ No. 4389

(Model MH) Twenty-five ton, manual, two-column hydraulic press with digital heated platens. Daylight opening is adjustable. Rigid cast iron and steel construction for precision and durability. Easy-to-read gauge is calibrated in pounds and metric tons. Optional water cooled platens are also available.

#### ■ No. 3856

(Model 25-12H) Twenty-five ton, manual, four-column hydraulic press. Easy-to-read gauge is calibrated in pounds and metric tons. Electrically heated 12" x 12" platens for temperatures to 650°F with digital controller for each platen, or special 8" x 8" high temperature platens to 1,100°F. Optional water cooled platens are also available.

#### ■ No. 3693

(Model 25-15H) Twenty-five ton, four-column hydraulic press. The 15" x 15" heated platen

area allows for larger work area. Standard with dual scale analog gauge.

#### ■ No. 4126

(Model 25-12-2H) Same press as No. 3856 except has four electrically heated platens with two 3" daylight. Optional water cooled platens are available.

### 30 TON PRESSES

#### ■ No. 4128

(Model 30-12H) Thirty ton, manual, four-column, hydraulic press. Has two-speed pump, first stage for rapid closing and second for pressing mode. Full range gauge is calibrated in pounds and metric tons. Electrically heated platens for temperatures to 650°F with digital controller for each platen. Special 8" x 8" high temperature platens to 1,100°F are available. Specify °F or °C display and voltage requirements.

#### ■ No. 4129

(Model 30-12-2H) Same press as No. 4128 except has four electrically heated platens with two 3" daylight. Optional water cooled platens are available.

Also available with digital gauges  
(see page 13)

CE available

## Specifications

Catalog Number	3690	4386	4120	4122	4123	4389	3856	3693	4126	4128	4129
Model	7.5-15H	Model CH	12-10H	12-12H	12-12-2H	Model MH	25-12H	25-15H	25-12-2H	30-12H	30-12-2H
Clamping Force											
U.S. Tons	7.5	12	12	12	12	25	25	25	25	30	30
Lbs	15,000	24,000	24,000	24,000	24,000	50,000	50,000	50,000	50,000	60,000	60,000
Max. Temp. (°F)	650°	650°	650°	650°	650°	650°	650°	650°	650°	650°	650°
Platens (in)	15 x 15	6 x 6	10 x 7	12 x 12	12 x 12	9 x 9	12 x 12	15 x 15	12 x 12	12 x 12	12 x 12
Ram Stroke (in)	5	5.1	5.1	5.1	5.1	6.5	6.5	5	6.5	6	6
Daylight Opening (in)	5	0 to 15	0 to 11	0 to 10	2 @ 3	0 to 12	0 to 9.5	5	2 @ 3	0 to 12	2 @ 3
Footprint w x d (in)	28 x 19	15 x 16	26 x 18	29 x 27	29 x 27	19 x 24	29 x 27	28 x 19	29 x 27	32 x 27	32 x 27
Height (in)	27	39	39	39	39	42	39	30	43	43	43
Weight (lb)	810	300	420	770	1,035	425	805	1,100	1,070	835	1,100

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.**



# Standard Presses

## 12, 25 and 30 ton capacity

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



No. 3850

No. 3851

No. 3968

No. 3853

No. 3855

No. 3970

### 12 TON PRESSES

#### ■ No. 3850

(Model Mini C) Twelve ton manual, two-column hydraulic press with 6" x 6" square platens. Compact and portable, requiring less bench space than our Model C. This press is ideal for constricted 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 is calibrated in pounds and metric tons.

#### ■ No. 4350

Pellet press with 4" round platen. Available with and without pellet die (see page 10).

#### ■ No. 3851

(Model C) Twelve ton, manual, two-column hydraulic lab press. Similar to Mini C above, but larger, heavier construction with daylight to 18". Easy-to-read dual scale gauge is calibrated in pounds and metric tons.

#### ■ No. 3968

(Model 12-10) Twelve ton, manual, two-column hydraulic press. Similar to No. 3851 press described above, but heavier construction with fully guided moving platen and daylight to 16". Easy-to-read dual scale gauge is calibrated in pounds 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 is calibrated in pounds and metric tons.

### 25 TON PRESSES

#### ■ No. 3853

(Model M) Twenty-five ton, manual, two-column hydraulic press. Daylight opening is adjustable. Rigid cast iron and steel construction for precision and durability. Easy-to-read gauge is calibrated in pounds and metric tons.

#### ■ No. 3855

(Model 25-12) Twenty-five ton, manual, four-column hydraulic press. Easy-to-read gauge is calibrated in pounds and metric tons.

### 30 TON PRESSES

#### ■ No. 3970

(Model 30-12) Thirty ton, manual, four-column, hydraulic press. Has two-speed pump, first stage for rapid closing and second for pressing mode. Full range gauge is calibrated in pounds and metric tons.

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

Also available with digital gauges (see page 13)

CE available

## Specifications

Catalog Number with shield	3850	4350	3851	3968	3969	3853	3855	3970
Model	Mini C	—	Model C	12-10	12-12	Model M	25-12	30-12
Old Press*	3393	—	2086	3724	2696	2089	2702	2698
Clamping Force Tons (lb)	12 (24,000)	12 (24,000)	12 (24,000)	12 (24,000)	12 (24,000)	25 (50,000)	25 (50,000)	30 (60,000)
Platens (in)	6 x 6	4 round	6 x 6	10 x 7	12 x 12	9 x 9	12 x 12	12 x 12
Ram Stroke (in)	5.1	5.1	5.1	5.1	5.1	6.5	6.5	6
Daylight Opening (in)	.75 to 7	0 to 5.50	.75 to 18	1 to 16	1 to 15	.75 to 16	1 to 14	1 to 17
Footprint w x d (in)	12 x 16	10.25 x 14	15 x 16	17 x 18	21 x 28	19 x 24	21x 28	24 x 27
Height (in)	22	24.4	36	37	37	42	37	43
Weight (lb)	125	115	200	345	560	350	600	625

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

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# CARVER®

*Presses for preparing pellets, bricks, briquettes and cakes*

**No. 4350, 12 ton Manual Pellet Press**



**No. 3887 25 ton AutoPellet Press**



## ■ No. 4350 Manual Pellet Press

The compact 12 ton Pellet Press with 4" diameter platen 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)

## ■ No. 3887 AutoPellet Press

The self-contained 25 ton AutoPellet press has 5" diameter platen and integral safety shield cabinet enclosing electrically powered hydraulic system. Rigid slab side construction maintains precise alignment and includes provision for a vacuum line connection to the pellet die. The microprocessor control system with digital force display allows programmable/selectable bleed-off rates.

## Specifications

€ available

Catalog Number	Max. Clamp Force, U.S. Tons (lb)	Platen Dia. (in)	Die (mm)	Ram Stroke Stroke (in)	Daylight Opening (in)	Footprint W x D (in)	Height (in)	Weight (lb)
4350	12 (24,000)	4	13	5.1	0.0 to 5.5	10.5 x 14.0	24.4	115
4350L	12 (24,000)	4	N/A	5.1	0.0 to 5.5	10.5 x 14.0	24.4	115
4555	40 (80,000)	4	31	6.0	0.0 to 6.0	32.5 x 15.0	31.2	400
4555L	40 (80,000)	4	N/A	6.0	0.0 to 6.0	32.5 x 15.0	31.2	400
4565	50 (100,000)	4	31	6.0	0.0 to 6.0	32.5 x 15.0	31.2	420
4565L	50 (100,000)	4	N/A	6.0	0.0 to 6.0	32.5 x 15.0	31.2	420
AutoPellet 3887	25 (50,000)	5	13	1	1.5 to 7.25	31.5 x 22.75	22 (+ handle)	400
AutoPellet 4387	40 (80,000)	5	31*	1	1.5 to 7.25	34 x 22.75	26 (+ handle)	500

\* 40 mm optimal



## ■ Evacuable Pellet Dies

Used with Pellet Presses to form the pellets for use in IR and x-ray spectroscopy. The stainless steel die includes a fitting for vacuum source connection when applicable. (6, 12, 13, 25, 31 and 40mm dies available)



## ■ No. 237005 Stainless Steel Pan

Fluid pan for use with all Test Cylinder Outfits. When presses are used for fluid extraction, filter papers sandwich the sample. The stainless steel pan captures the released fluid.



## ■ No. 2095 KBr Buffer Plate

Required for use with pellet dies. The 90mm diameter plate mounts to top bolsters to

prevent damage by the die plunger during pressing. The buffer plate can be used with other small dies.

■ **No. 5021** KBr Buffer Plate and One (1) 6"x 6" Steel Plate (for new styles only). Recommended for use with dies.

■ **No. 5022** KBr Buffer Plate and One (1) 9"x 9" Steel Plate (for new styles only). Recommended for use with dies.

■ **No. 5023** Set of (2) Two 6"x 6" Steel Plates (for new styles only). Recommended if solid smooth surface is required.

■ **No. 5024** Set of (2) Two 9"x 9" Steel Plates (for new styles only). Recommended if solid smooth surface is required.



## ■ No. 2090-0 1.125" I.D. 440 Stainless Steel Test Cylinder and Pellet Mold

## ■ No. 2091-5 2.25" I.D. 440 Stainless Steel Test Cylinder and Pellet Mold

For use with pellet presses for molding, forming bricks, briquettes, pressure forming, crushing, pressing plant and animal tissues, fluid extraction, extrusion and flow tests.



## ■ No. 3874 Vacuum Pump Kit

Used with pellet press to evacuate molds or dies. (available 115 or 230V)

# E-Series Electric & Laminating Presses

## All Electric E-Series Compression Press

**For Compression Molding of Rubber/Elastomers, Gum Silicones, Various TPR's, Thermosets and Thermoplastics**

Carver, Inc. first all electric compression press designed for around-the-clock performance in a lab, clean room or on the production floor. The E-Series is clean, quiet to operate and offers greater precision and reliability over hydraulically driven presses. Energy savings is another key benefit, especially when considering longer dwell time applications.

The E-Series is ideal for compression molding of rubber/elastomers, gum silicones, various TPR's, thermosets and thermoplastics, as well as various bonding and laminating applications. The unique all electric power-drive system provides accurate control of clamp force from 1,000 lbs. to 60,000 lbs.

### Specifications – Electric E-Series Press

Model Number	CGE30H-15
Operating Speed (IPM)	70
Max. Clamp Force (tons)	30
Electrically Heated Platen (in)	15 x 15
Max. Operating Temperature	500 °F
Clamp Stroke (in)	12
Daylight Opening (in)	12
Dimensions w x d (in)	48 x 40
Height (in)	84



**Features:** Load cell for force feedback; PLC controls press functions; Segmented program with recipe storage; Touch-screen operator interface; Platens available up to 18"x 18"; Clamp area guards; Patented (US 6990896B2).

## Laminating Presses

Manually operated hydraulic presses with stacked heating and cooling platens. Heating one opening while simultaneously cooling the other results in faster production of laminated ID cards, licenses, photos and other important documents. Temperature control to 500 °F.

■ **No. 4130 (formerly 2112) Laminating Press, 12 ton capacity with Safety Shield** Four 6"x 6" platens for one hot and one cold daylight opening

■ **No. 4132 (formerly 2630) Laminating Press, 30 ton capacity with Safety Shield** Four 12"x12" platens for one hot and one cold daylight opening. Digital control of heated platens in top opening.



### Specifications – Laminating Presses

Catalog Number	4130	4132
Model Number	150-C	30-12-L
Clamping Force, U.S. tons (lb)	12 (24,000)	30 (60,000)
Platens (in)	6 x 6	12 x 12
Footprint w x d (in)	16 x 18	19 x 19
Height (in)	30	42
Weight (lb)	190	1,000
Electrical	115 or 230/1/60	



### 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.

**Automatic cooling** Programmable controls permit automatic switching from heating to cooling and preset timed cycles. Consult factory with specific applications.

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



**Heated Platens  
Thermostat Control**



**Heated Platens w/Digital Control  
and Disconnect (available with  
cooling channels)**



**Heating/Cooling Platens  
Thermostat Control**



**Cooling Platens**

**\*Platen packages with temperature ranges to 1,100°F  
available upon request**

### Specifications

For Presses Catalog Number/Model	Platen Size (in)	Heated Platens Thermostat Control	Heated Platens Digital Control	Heating/Cooling Platens Thermostat Control	Heating/Cooling Platens Digital Control	Cooling Platens
<b>3850</b> /Mini C <b>3851-0</b> /Model C <b>4130</b> /150-C	6 x 6	<b>2101</b> - aluminum 150 to 500 °F	<b>3796</b> - steel to 650 °F (115V)	<b>2103.1</b> - steel 150 to 500 °F	<b>3772</b> - steel, with hoses to 650 °F (115V)	<b>2104</b> - aluminum, with valve and hose assemblies
		<b>2102.1</b> - steel 150 to 500 °F			<b>4286</b> - steel, to 650 °F (230V)	
		<b>2105</b> - aluminum, cored for steam heat				
<b>3853-0</b> /Model M	9 x 9	<b>2107.1</b> - steel 150 to 500 °F	<b>3973</b> - steel to 650 °F (230V)	<b>2108.1</b> - steel 150 to 500 °F	<b>3972</b> - steel, with hoses to 65 °F (230V)	
		<b>2109</b> - steel, cored for steam heat				
<b>Four-column Presses</b>	12 x 12		<b>3906</b> - steel to 650 °F (230V)		<b>3749</b> - steel with hose assemblies to 650 °F (230V)	
	15 x 15		<b>6316</b> - steel to 650 °F (230V)			



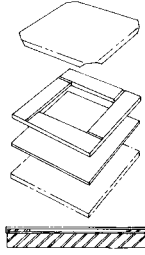
### Accu-Heat™ Heat Tube Platens

- Accurate and uniform up to  $\pm 1$  F° in many applications
- 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 Carver for pricing and lead times

# Laboratory Accessories for Carver Presses

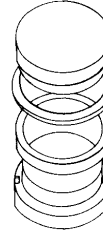
## Carver Molds and Dies

See pages 10-11 for information on pellet molds and dies and ASTM specimen molds.



### Tile Mold

Plated steel or stainless steel frame with polished steel top and bottom covers. Can be used up to 400°F to form plastic or rubber sheets. Use with Carver heated, or heated and cooled platens.



### Color Dispersion Disc Mold

For making plastic film to check color dispersion or clarity. Provides precise film thickness and parallelism. Made of stainless steel or hardened tool steel. Includes die, upper punch and lower punch. Spacers available for optional film thicknesses.

## Specifications

Catalog Number	Description	Sample Dimensions	Sample Thicknesses	Material	Max. Clamping Force
818701D	Tile Mold	50mm x 50mm	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818702D	Tile Mold	100mm x 100mm	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818703D	Tile Mold	150mm x 150mm	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818704C	Color Dispersion	50mm diameter	0.1mm, 0.2mm, 0.5mm	440 Stainless Steel	N/A
818705C	Color Dispersion	100mm diameter	0.1mm, 0.2mm, 0.5mm	440 Stainless Steel	N/A
4417	Pellet Die	6mm	N/A	440 Stainless Steel	1.75 US Tons
4946	Pellet Die	12mm	N/A	440 Stainless Steel	6.5 US Tons
3619	Pellet Die	13mm	N/A	440 Stainless Steel	9 US Tons
4369	Pellet Die	25mm	N/A	440 Stainless Steel	23.5 US Tons
3902	Pellet Die	31mm	N/A	440 Stainless Steel	30 US Tons
3876	Pellet Die	40mm	N/A	440 Stainless Steel	35 US Tons
2090-0	Test Cylinder	1.125	N/A	440 Stainless Steel	19 US Tons
2091-5	Test Cylinder	2.25	N/A	440 Stainless Steel	51 US Tons
818698D	Tile Mold	4" x 4"	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818699D	Tile Mold	6" x 6"	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818700D	Tile Mold	10" x 10"	1mm, 2mm, 5mm	440 Stainless Steel	N/A



### 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.**



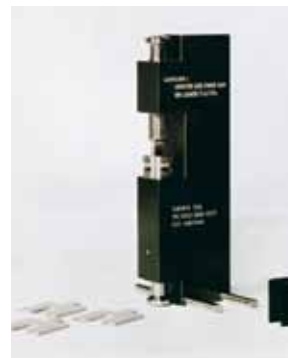
### No. 2096CE Two Gauge Manifold

Permits mounting of both high and low range analog gauges for more precise application of pressure. Hand operated shut-off valve protects low pressure gauge when using high pressure. **Gauges sold separately.** (see page 15)



### No. 6306 Digital Gauge Kit

Digital force gauges for all manual presses and available in 10 or 100 pound increments. They are scaled per press model.



### 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 includes dies)

# CARVER®

## Laboratory Accessories for Carver Presses



■ **No. 223171D Press Floor Stand**  
30" high enclosed floor stand for all 2 and 4 column presses.

■ **No. 223160C Press Floor Stand**  
30" high, open floor stand with work table.



■ **No. 223215C Press Stand for 2 & 4 Post Presses**  
30" high enclosed floor stand with casters.

■ **No. 223219D Press Stand for Auto Series**  
30" high enclosed floor stand.

■ **No. 223229C Press Stand for Auto Series**  
30" high with casters.



### Safety Shield

Rigid steel shield with hinged, polycarbonate door.

■ **No. 3404 Safety Shield**  
Mini C No. 3392, 3393

■ **No. 3295 Safety Shield**  
Model C No. 2086

■ **No. 3253 Safety Shield**  
Model M No. 2089

■ **No. 3322 Safety Shield**  
Model 12-10 No. 3724

■ **No. 3418 Safety Shield**  
Model 12-12 No. 2696,  
Model 25-12 No. 2702 &  
Model 30-12 No. 2698

■ **No. 4427 Safety Shield**  
Model 3690, Model 3693



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](http://carverpress.com) for details)

■ **No. 3729 12 ton hydraulic unit repair kit**

■ **No. 3730 25 ton hydraulic unit repair kit**

## ACCESSORIES

**Catalog number  
cross reference index**

### HEATING/COOLING

**Platens for Model C Presses**  
(also available in °C in all cases)

- 2101** 6" x 6" heating thermostatically controlled aluminum platen, 150° to 500° F
- 2102.1** 6" x 6" heating thermostatically controlled steel platens, 150° to 500° F
- 3796** 6" x 6" heating steel platens, digital temperature controllers, to 650° F, 115V
- 4286** 6" x 6" heating steel platens, digital temperature controllers, to 650° F, 230V
- 2103.1** 6" x 6" heating & cooling thermostatically controlled steel platens, 150° to 500° F with hoses
- 2104** 6" x 6" cooling thermostatically controlled aluminum platens, with valve and hose assemblies



**3772** 6" x 6" heating & cooling steel platens, digital temperature controllers, to 650° F, 115V

**3988** 6" x 6" heating & cooling steel platens, digital temperature controllers, to 650° F, 230V

**2105** 6" x 6" steam heat aluminum with insulation and hoses

**Platens for Model M Presses**  
(also available in °C in all cases)

**2107.1** 9" x 9" heating thermostatically controlled steel platens, 150° to 500° F

- 3973** 9" x 9" heating steel platens, digital temperature controllers, to 650° F, 230V with mounting feet
- 2108.1** 9" x 9" heating & cooling thermostatically controlled steel platens, 150° to 500° F with hoses
- 2109** 9" x 9" steam heating steel platens with hoses
- 3972** 9" x 9" heating & cooling steel platens, digital temperature controllers, to 650° F, 230V, platens for two-column presses

**Platens for four-column presses**  
(also available in °C in all cases)

- 3906** 12" x 12" heating steel platens, digital temperature controllers, to 650° F, 230V
- 3749** 12" x 12" heating & cooling steel platens, digital temperature controllers, to 650° F, 230V
- 6316** 15" x 15" heating steel platens, digital temperature controllers, to 650° F, 230V

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.**



# Accessories for Many Applications

## MOLDS AND DIES

(See page 13)

### Test Cylinders and Pellet Molds

<b>2090-0</b>	Test cylinder outfit, 1.125" I.D.
<b>2090-1</b>	Set of 12 filter pads for 2090
<b>2091-5</b>	Test cylinder outfit all stainless steel, 2.25" I.D.
<b>2091-1</b>	Set of 12 filter pads for 2091
<b>237005</b>	Stainless steel pan for either
<b>4417</b>	6mm pellet die 440 stainless steel
<b>4946</b>	12mm pellet die 440 stainless steel
<b>3619</b>	13mm pellet die for KBr pellets
<b>4369</b>	25mm pellet die 440 stainless steel
<b>3902</b>	31mm pellet die, 440 stainless steel
<b>3876</b>	40mm pellet die, 440 stainless steel
<b>2092</b>	Swivel bearing plate (Requires safety shield)
<b>2095</b>	KBr buffer plate

### ASTM Molds

(See page 10)

<b>4079</b>	4" x 4" chase assembly, Teflon
<b>4080</b>	4" x 4" chase assembly, Stainless steel
<b>4081</b>	4" x 4" chase assembly, Brass
<b>4082</b>	6" x 6" chase assembly, Teflon
<b>4083</b>	6" x 6" chase assembly, Stainless steel
<b>4084</b>	6" x 6" chase assembly, Brass
<b>4085</b>	8" x 8" chase assembly, Teflon
<b>4086</b>	8" x 8" chase assembly, Stainless steel
<b>4087</b>	8" x 8" chase assembly, Brass
<b>4161</b>	(100) 6" x 6" mylar sheets for 4"x 4" molds
<b>4162</b>	(100) 8" x 8" mylar sheets for 6" x 6" molds
<b>4163</b>	(100) 10" x 10" mylar sheets for 8" x 8" molds
<b>818698D</b>	4" x 4" tile mold, 1mm, 2mm or 5mm thick, Stainless steel

<b>818699D</b>	6" x 6" tile mold, 1mm, 2mm or 5mm thick, Stainless steel
<b>818700D</b>	10" x 10" tile mold, 1mm, 2mm or 5mm thick, Stainless steel
<b>818701D</b>	50mm x 50mm tile mold, 1mm, 2mm or 5mm thick, Stainless steel
<b>818702D</b>	100mm x 100mm tile mold, 1mm, 2mm or 5mm thick, Stainless steel
<b>818703D</b>	150mm x 150mm tile mold, 1mm, 2mm or 5mm thick, Stainless steel
<b>818704C</b>	50mm diameter color dispersion disc, .1mm, .2mm or .5mm thick, Stainless steel
<b>818705D</b>	100mm diameter color dispersion disc, .1mm, .2mm or .5mm thick, Stainless steel
<b>818744C</b>	Pharmaceutical pellet die holder

### TESTING/PROCESSING

(See pages 9 and 13)

#### Polished Stainless Steel Plates (For laminating applications)

<b>235020</b>	Plate with #8 mirror finish, 1 side polished, 6" x 6" x .035" thick
<b>235021</b>	Plate with #8 mirror finish, 1 side polished, 9" x 9" x .035" thick
<b>235022</b>	Plate with #8 mirror finish, 1 side polished, 9" x 12" x .035" thick
<b>235023</b>	Plate with #8 mirror finish, 1 side polished, 12" x 12" x .035" thick

#### Heated Test Cylinders

<b>2472</b>	Heating jacket with 1.125" test cylinder
<b>2417</b>	Heating jacket with 2.25" test cylinder

### SAFETY SHIELDS

(See page 14)

<b>3404</b>	For all Mini C Presses
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<b>3295</b>	For all Model C Presses
<b>3253</b>	For all Model M Presses
<b>3322</b>	For all presses with 10" x 7" platens
<b>3418</b>	For all presses with 12" x 12" platens
<b>4427</b>	For 3690 and 3693 with 15" x 15" platens

### ANALOG GAUGES/ THERMOMETERS



#### Gauges for Model B/C

<b>381005</b>	Gauge normally furnished with Model C, 0 - 24,000 lb applied force, 11 metric tons, 200 lb increments
<b>381042</b>	Model C gauge, 0 - 500 lb, .225 metric tons, 5 lb increments
<b>381001</b>	Model C gauge, 0 - 1,000 lb, .45 metric tons, 10 lb increments
<b>381002</b>	Model C gauge, 0 - 2,000 lb, .9 metric tons, 20 lb increments
<b>381003</b>	Model C gauge, 0 - 5,000 lb, 2.25 metric tons, 50 lb increments
<b>381004</b>	Model C gauge, 0 - 10,000 lb, 4.5 metric tons, 100 lb increments

#### Gauges for Model K/M

<b>381008</b>	Gauge normally furnished with Model M, 0 - 50,000 lb applied force, 22.5 metric tons, 500 lb increments
<b>381006</b>	Model M Gauge, 0 - 5,000 lb, 2.25 metric tons, 50 lb increments
<b>381007</b>	Model M Gauge, 0 - 10,000 lb, 4.5 metric tons, 100 lb increments
<b>381176A</b>	Model M Gauge, 1 - 1,000 lb, .45 metric tons, 10 lb increments

### Two Gauge Manifold

<b>2096 C €</b>	Two gauge manifold
<b>2096 C € -1</b>	(mini C only)

### Dial Thermometers



<b>385001</b>	Dial face thermometer 150 °F to 750 °F
<b>385002</b>	Dial face thermometer 100 °C to 400 °C

### HYDRAULIC UNITS

(Specify press Catalog Number)

<b>3912</b>	12 ton hydraulic unit
<b>3925</b>	25 ton hydraulic unit
<b>321007</b>	Pump and reservoir for 30 ton presses
<b>3467</b>	Hydraulic cylinder for 30 ton presses
<b>3729</b>	12 ton repair kit
<b>3730</b>	25 ton repair kit
<b>2170</b>	Carver hydraulic fluid

### AUTOPAK™ POWER UNITS

(See page 16)

<b>3946NE</b>	AutoPak/12, for 12 ton presses, digital control
<b>3947NE</b>	AutoPak/25, for 25 ton presses, digital control
<b>3948NE</b>	AutoPak/30, for 30 ton presses, digital control

### FLOOR STANDS

(See page 14)

<b>223160C</b>	Press stand for presses, 30" high
<b>223171D</b>	Press stand for 2 column and 4 column presses
<b>223215C</b>	Press stand for 2 column and 4 column presses with casters
<b>223219D</b>	Press stand for Auto Series 30" high
<b>223229C</b>	Press stand for Auto Series with casters

# Add Power to Existing Presses

## AutoPak™ Power Units

A self-contained, electrically operated automatic power unit is available for retrofit to most existing manual presses. Its compact benchtop design is just 23" x 20" x 24".

It is equipped with a 1/4 hp DC motor and two-stage hydraulic pump. The AutoPak™ utilizes the same "NE" pressure control system as the Carver Auto Series line (see page 5). Two-hand "anti-tie-down" controls protect the operator.



Catalog No.	Model	Capacity (tons)	Control
3946-NE	AutoPak/12	.5 - 12	Programmable
3947-NE	AutoPak/25	.5 - 25	Programmable
3948-NE	AutoPak/30	.5 - 30	Programmable

Specify 115/1/60 or 230/1/60 and press model to be used with.

## 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.

## Rely on Carver and WABASH Presses for Every Need

Carver, Inc. and WABASH MPI are sister companies located in Wabash, Indiana. For over 70 years WABASH MPI has met the challenge of designing and manufacturing standard and special presses for industry worldwide. All Carver and WABASH presses are manufactured in the USA. Parts, service and support information are readily available. Ask to see installations of Carver or WABASH presses performing productively in your area. Consult 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, Die-cut and Trim presses. For more information on any of our presses call, fax or visit our website.



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