

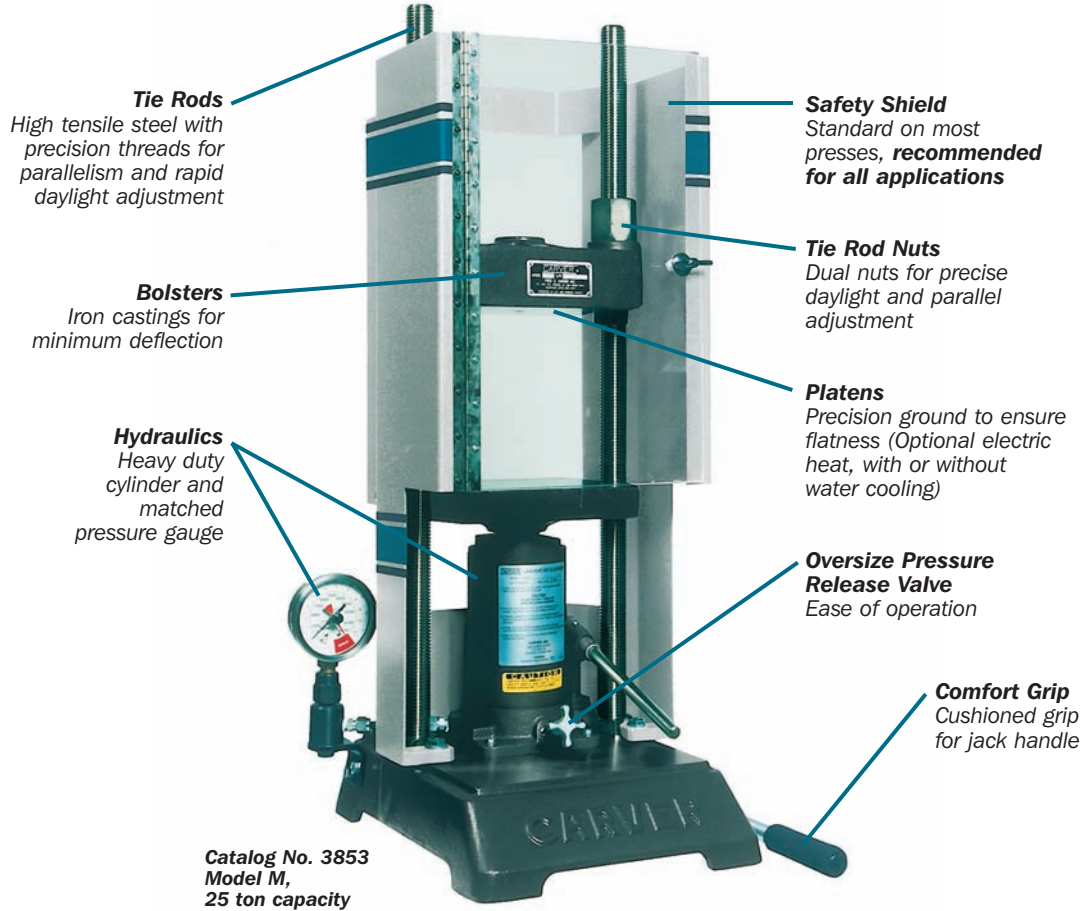
CARVER[®]

Laboratory Presses and Accessories



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All Carver Laboratory Presses Provide These Benefits



The international standard For more than 85 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 and 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.

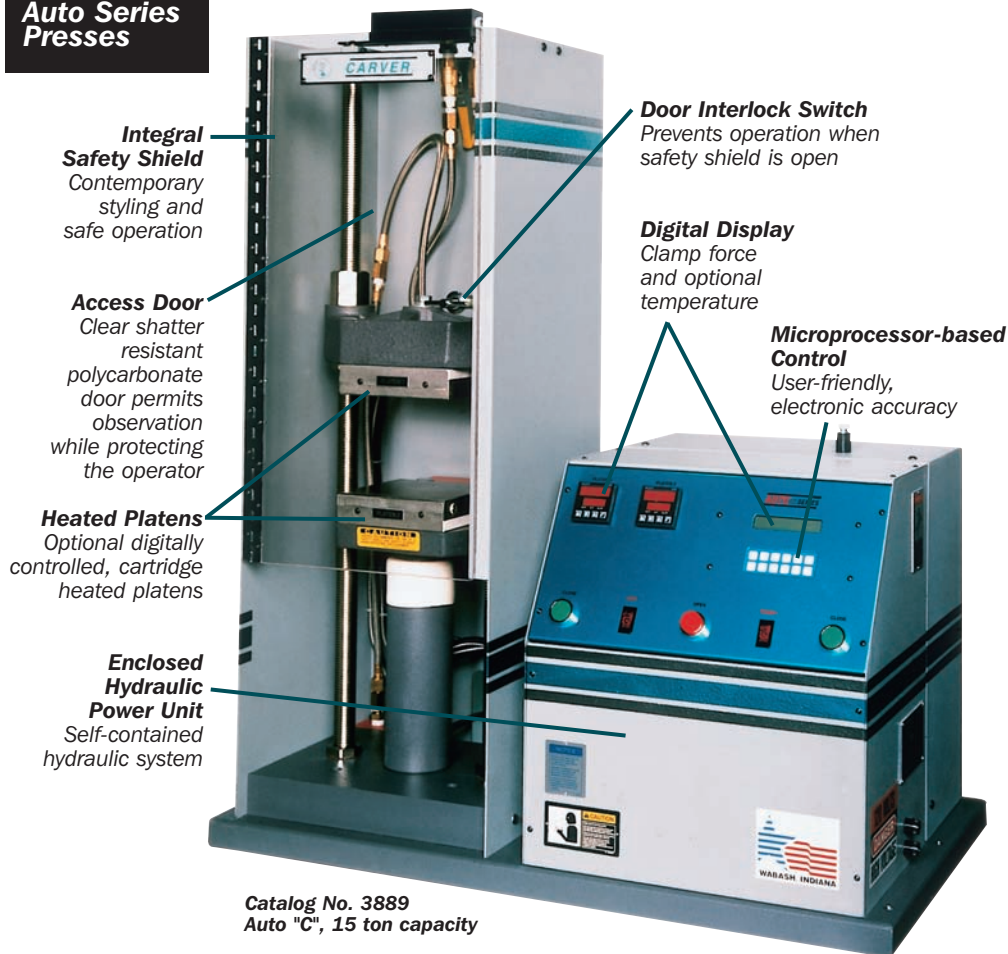
Specialized applications Special presses dedicated to specific applications include ASTM test plaque or bar molding, pellet making (KBr specimens for infrared and x-ray spectroscopy), laminating and rubber stamp molding.

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.

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More Choices, More Features, More Performance

Auto Series Presses



Catalog No. 3889
Auto "C", 15 ton capacity

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 pressure and choose benchtop or floor standing model.
 - Benchtop**
12 to 30 tonspages 4, 5, 7, 8, 9, 10, 11
 - Floor Standing**
30 to 100 tonspages 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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Cover photo: Carver presses molding medical components.

Automatic hydraulic laboratory presses in two- and four-post models up to 30 ton clamp capacity

Access Door
Clear, impact resistant polycarbonate door permits observation and serves as a safety shield to protect the operator

Threaded Rods
Permit adjustment of daylight opening

Heated Platens
With digitally controlled cartridge heaters (optional)

Hydraulic Cylinder
Delivers up to 30 tons of clamping pressure

Unitized Base
Makes installation and set-up easy

Auto Series presses feature integral power for automatic operation

Cast Iron Bolsters
Provide maximum rigidity

Integral Safety Shield
Surrounds work area for safe operation

Door Interlock Switch
Prevents operation when safety shield is open

Individual Temperature Controllers Ensure accurate temperature of each platen (optional)

Microprocessor Control System
For precise, programmed process control

"Open" Button
Stops cycle and opens press

Dual Operator Buttons With "anti-tie-down" feature requires two-hand operation for operator safety

Hydraulic Power Unit
Completely self-contained, electrically operated

Catalog No. 3895 Auto Four/30, 30 ton capacity

CE available

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



Catalog No. 3887 AutoPellet, 25 ton capacity AutoPellet press specifically designed for preparation of pellets, primarily KBr specimens for IR Spectroscopy (See Pellet Presses on page 10).*

Carver has incorporated more than 85 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 30 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.



Carver Auto "C" presses molding medical components.*

*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.

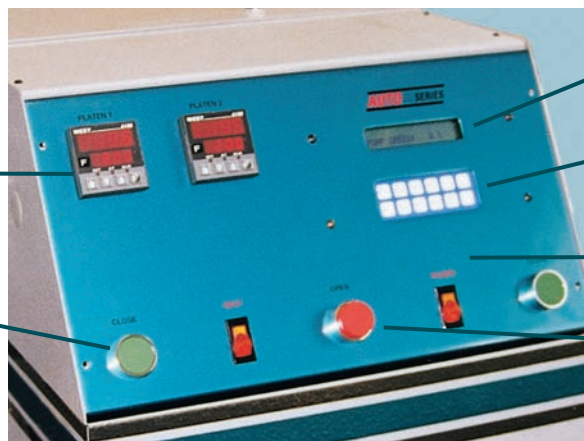
A Complete Line of Automatic Electrically Powered Benchtop Presses for the Laboratory or Manufacturing Facility

Auto Series control panel with optional digital platen temperature control

Individual Digital Temperature Controllers

Ensure accurate temperature of each platen (optional)

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



Digital Display
Of operating parameters

Microprocessor Control Keypad
For entry of operating parameters

Power Switches
With indicator lights

"Open" Button
Single button opens press

Digital ("D") Control Description:

The Digital ("D") control system controls the desired pressure, speed and dwell time, and displays the press status. The following features are included with the Digital ("D") version:

- Ten (10) recipe storage of pressure and time settings
- Digital control of pressure and dwell time
- Digital pressing speed adjustment
- Adjustable end of cycle alarm
- Auto opening of platens upon cycle completion
- Units of measure setting for KG, lbs or US tons
- Optional manual cooling

The normal operating cycle consists of closing the press with the dual "anti-tie-down" buttons and building force to the selected setpoint, maintaining this setpoint for a predetermined dwell time, and eventually opening the press after the integral timer has expired.

Programmable ("P") Control Description:

The Programmable ("P") control system includes all the features of the "D" control system plus allows for step programming of segments, or events, throughout the cycle. The following additional features are included:

- Twenty (20) programmable segments per recipe

- Ten (10) recipe storage of temperature, pressure and time settings
- Optional automatic water cooling and air purge

The normal operating cycle consists of closing the press with the dual "anti-tie-down" buttons and building force to the selected setpoint of the first segment of the recipe, maintaining this setpoint for the dwell time specified for that segment, repeating this cycle of building or maintaining force for the other segments, and eventually opening the press.

Platen temperature can also be adjusted for each segment of the recipe as part of the "Programmable" control system.

Specifications

Model	Catalog Number	Max. Clamp Force, Tons (lb)	Heated Platens	Platen Size (in)	Ram Stroke (in)	Daylight Opening (in)	Footprint W x D (in)	Height (in)	Weight (lb)
AutoPellet	3887	25 (50,000)	N/A	5 dia.	1	1.50 to 7.25	32 x 20	22 (+ handle)	400
AutoPellet	4387	40 (80,000)	N/A	5 dia.	1	1.50 to 7.25	34 x 22.75	26 (+handle)	500
Two-Post Models									
Auto"C"	3888	15 (30,000)	No	6 x 6	6	.75 to 18	35 x 20	40	350
Auto"C"	3889	15 (30,000)	Yes	6 x 6	6	0 to 15	35 x 20	40	400
Auto"M"	3890	25 (50,000)	No	9 x 9	6	.75 to 16	37 x 20	43	540
Auto"M"	3891	25 (50,000)	Yes	9 x 9	6	0 to 12	37 x 20	43	600
Four-Post Models									
AutoFour/15	3892	15 (30,000)	No	12 x 12	6	1 to 18.5	42 x 24	46	800
AutoFour/15	3893	15 (30,000)	Yes	12 x 12	6	0 to 13.5	42 x 24	46	1,000
AutoFour/15	4530	15 (30,000)	No	15 x 15	6	1 to 17	46.5 x 25	46	1,200
AutoFour/15	4531	15 (30,000)	Yes	15 x 15	6	0 to 13.5	46.5 x 25	46	1,500
AutoFour/30	3894	30 (60,000)	No	12 x 12	6	1 to 17	42 x 24	46	850
AutoFour/30	3895	30 (60,000)	Yes	12 x 12	6	0 to 12	42 x 24	46	1,050
AutoFour/30	4532	30 (60,000)	No	15 x 15	6	1 to 17	46.5 x 25	46	1,200
AutoFour/30	4533	30 (60,000)	Yes	15 x 15	6	0 to 12	46.5 x 25	46	1,500

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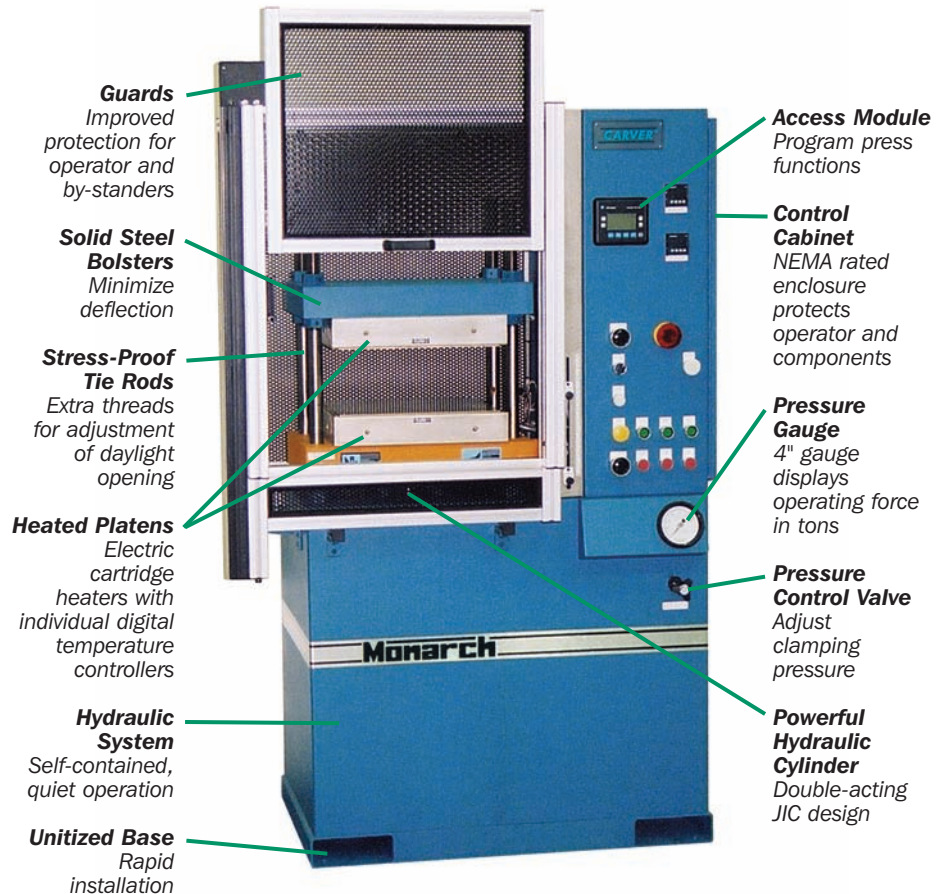
Carver's Monarch laboratory presses with integral hydraulic system and high technology options are based on standard production press models adapted to precision laboratory requirements.

Recommended for testing or research, compacting, molding rubber or plastic, laminating and assembly where stripping pressure 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

Catalog Number	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)
3710H	30	15 x 15	6 to 12	6	1.25	42 x 40	72	1,850
3710-ASTM*	30	12 x 12	6 to 12	6	1.25	43 x 40	72	1,850
3711H	50	12 x 12	8 to 16	8	1.75	60 x 38	78	4,800
3712H	50	15 x 15	8 to 16	8	1.75	60 x 38	78	4,800
3713H	50	18 x 18	8 to 16	8	1.75	60 x 38	78	5,000
3714H	50	24 x 18	8 to 16	8	1.75	66 x 38	78	5,600
3715H	75	15 x 15	8 to 16	8	2	63 x 38	78	5,300
3716H	75	18 x 18	8 to 16	8	2	69 x 38	78	5,500
3717H	75	24 x 18	8 to 16	8	2	69 x 38	78	6,100
3718H	100	15 x 15	12 to 22	12	3	66 x 38	78	7,000
3719H	100	18 x 18	12 to 22	12	3	66 x 38	78	7,000
3720H	100	24 x 18	12 to 22	12	3	72 x 38	78	7,500

*Model "B" ASTM includes heated and cooling platens (see page 11).

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.



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.

■ No. 3710-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

CAC Air & Remote Air-Cooled Chillers Scroll Compressor Technology Reduces Energy Consumption & Improves System Reliability

CAC Air and Remote Air-Cooled Chillers provide 5 to 15 ton cooling capacities with very compact footprints. These chillers feature a unique enclosure design that simplifies service and maintenance, and conserves valuable production floor space. Incorporate these chillers into your planned or existing production layout easily and effectively.

The chiller features a 1/16 DIN PID auto-tuning, off-the-shelf modular controller. Accurate to within $\pm 1^{\circ}\text{F}$, this controller ensures precise adherence to the To-Process Set Point Temperature. The easy-to-read LED display clearly indicates Set Point and To-Process temperature of chilled process water.

All chillers are covered by a comprehensive parts and service warranty. Top equipment performance and outstanding buyer protection: two reasons why Carver has been your number one choice for chillers and process cooling systems for more than 40 years.

- Non-ferrous piping, pump and reservoir
- Off-the-shelf controller technology for easy maintenance and system upgrades
- Streamlined, functional cabinet design simplifies service and maintenance

Consult factory for specifications



CE available

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



No. 4386



No. 4120



No. 4122



No. 4126



No. 4128

TWELVE 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.

TWENTY-FIVE 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. 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.

THIRTY 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.

CE available

Specifications

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

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



No. 3850

No. 3851

No. 3968

No. 3853

No. 3855

No. 3970

TWELVE 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.L

Pellet press with 4" round platen. Same as No. 4350 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.

TWENTY-FIVE 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.

THIRTY 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: Carver presses can be automated with an optional AutoPak power package (See back cover).

CE available

Specifications

Catalog Number with shield	3850	4350.L	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 8	15 x 16	17 x 18	21 x 28	19 x 24	21 x 28	24 x 27
Height (in)	22	20.25	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.

**No. 4350
12 ton
Manual
Pellet
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, 13mm evacuable die and counter-bored platen for positive die alignment.



**No. 3887 25 ton
AutoPellet Press**

■ 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. "SD" microprocessor control system with digital display of force permits programmed operation and selectable bleed-off of pressure. Upgraded "PD" model allows programmed pressure bleed-off. 25 ton model includes 13mm KBr pellet die, and 40 ton model includes 31mm die for x-ray sample preparation. (Optional 40mm die available.)

Specifications

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
4350.L	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
4555.L	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
4565.L	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. (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 3619 KBr die. 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 1.125" I.D. Stainless Steel Test Cylinder and Pellet Mold**

■ **No. 2091**

2.25" I.D. Nickel Plated Test Cylinder and Pellet Mold

■ **No. 2091.2 2.25" I.D. 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.



Features: Load cell for force feedback; Allen Bradley 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).

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

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. 4131 (formerly 2114) Laminating Press, 25 ton capacity with Safety Shield**
Four 9"x 12" 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	4131	4132
Model Number	150-C	154-M	30-12-L
Clamping Force, U.S. tons (lb)	12 (24,000)	25 (50,000)	30 (60,000)
Platens (in)	6 x 6	9 x 12	12 x 12
Footprint w x d (in)	16 x 18	19 x 19	19 x 19
Height (in)	30	36	42
Weight (lb)	190	380	575
Electrical	115 or 230/1/50-60		



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.

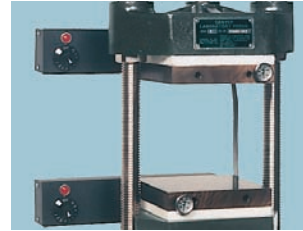
No. 3984

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.



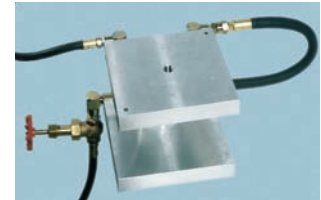
Heated Platens
Thermostat Control



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



Heating/Cooling Platens
Thermostat Control



Cooling Platens

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
3850/Mini C 3851/Model C 4130/150-C	6 x 6	2101 - aluminum 150 to 500°F	3796 - steel to 650°F (115V)	2103.1 - steel 150 to 500°F	3772 - steel, with hoses to 650°F (115V)	2104 - aluminum, with valve and hose assemblies
		2102.1 - steel 150 to 500°F			3988 - steel to 650°F with hoses (230V)	
		2105 - aluminum, cored for steam heat	4286 - steel, to 650°F (230V)		3988 - steel to 650°F with hoses (230V)	
3853/Model M	9 x 9	2107.1 - steel 150 to 500°F	3973 - steel to 650°F (230V)	2108.1 - steel 150 to 500°F	3972 - steel, with hoses to 65°F (230V)	
		2109 - steel, cored for steam heat				
4131/154-M	9 x 12	2644 - aluminum 150 to 500°F				2645 - aluminum, with valve and hose assemblies
All Four-column Presses	12 x 12		3906 - steel to 650°F (230V)		3749 - steel with hose assemblies to 650°F (230V)	
	8 x 8		3975 - steel to 1,100°F (230V)		3976 - steel with hoses to 1,100°F (230V)	



No. 3690
with optional floor stand

Rubber Stamp Presses

These rigid, four column manually operated hydraulic presses feature digital temperature controls for efficient rubber stamp molding with today's newest materials. Accurate temperature control to 500°F and precision parallel platens assure precise, repeatable pressure and temperature. Other platen sizes are available on request. Floor stand optional.

No. 3690, 7.5 ton Rubber Stamp Molding Press

No. 3693, 25 ton Rubber Stamp Molding Press

Specifications - Rubber Stamp Presses

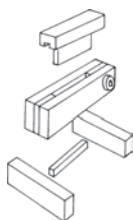
Catalog Number	Pre-Ink Only	Rubber Stamp & Pre-Ink
	3690	3693
Model Number	3690	3693
Temperature Controllers	2	2
Temperature Uniformity, °F	±2	±2
Digital Timer	Yes	Yes
Pressure Gauge	Yes	Yes
Clamping Force, tons, pounds	7.5 15,000	25 50,000
Platen Size (in)	15 x 15	15 x 15
Maximum Daylight (in)	5	5
Dimensions (in)	28 x 19 x 27	28 x 19 x 30
Weight (lb)	810	1,100
Electrical Supply	115 or 230/1/60	

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.

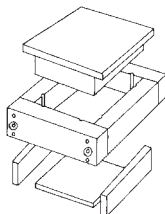
Carver Molds and Dies *See pages 10-11 for information on pellet molds and dies and ASTM specimen molds.*

Stick Mold



Made of stainless steel or hardened tool steel. For ceramic, metal and other powder or granules. Stick molds are designed and built to specific customer requirements.

Picture Frame Mold

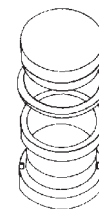


Made of stainless steel or hardened tool steel. Can be used for powders, ceramics and plastics. Minimum size 1" x 1".

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	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
3619	Pellet Die	13mm	N/A	440 Stainless Steel	9 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	Test Cylinder	1.125	N/A	440 Stainless Steel	19 US Tons
2091	Test Cylinder	2.25	N/A	Nickel/Stainless Steel	26 US Tons
2091.2	Test Cylinder	2.25	N/A	Stainless Steel	51 US Tons
818864D	Picture Frame	4" x 4"	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818981D	Picture Frame	6" x 6"	1mm, 2mm, 5mm	440 Stainless Steel	N/A
818766D	Picture Frame	10" x 10"	1mm, 2mm, 5mm	440 Stainless Steel	N/A
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. 3676 Digital Force Display



No. 2094 Cage Equipment

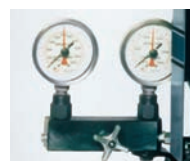
When using Carver presses to press moisture from fibrous materials, extract fats, oils or juices from vegetable or animal tissues, splitting chilled oils or separating crystals from liquors, these accessories are useful. Cage equipment consists of cylinder, plunger, steel discs, felt discs, tray and bulb syringe. **Requires a daylight opening of 16 inches.**



No. 2953 CEA Pressure Cell Assembly, 50 ml (Model C or M only)

No. 3343 CE Pressure Cell Assembly, 100 ml (Model M only)

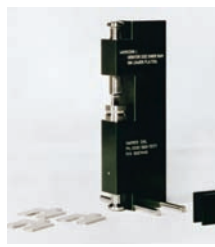
Stainless steel plunger, cylinder and baseplug. Includes disruption valve and seals for efficient pressure release.



No. 2096 CE Two Gauge Manifold

Permits mounting of both high and low range 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. 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.



- ❑ **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 Auto Series**
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 all Carver hydraulic units. Repair kits contain hydraulic oil, seals, gaskets, pins, fittings, valve parts and jack handle bracket for quick maintenance.

- ❑ **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
(Specify °F or °C)

- 2101** 6"x 6" heating aluminum platen, 150° to 500°F
- 2102.1** 6"x 6" heating 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 steel platens, 150° to 500°F with hoses
- 2104** 6"x 6" cooling 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
(Specify °F or °C)

- 2107.1** 9"x 9" heating 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 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 two-column presses
(Specify °F or °C)

- 2644** 9"x 12" heating aluminum platens, 150° to 500°F
- 2645** 9"x 12" cooling aluminum platens with valve and hose assemblies

Platens for four-column presses
(Specify °F or °C)

- 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
- 3975** 8"x 8" high temperature heating steel platens, to 1100°F, 230V
- 3976** 8"x 8" high temperature heating & cooling steel platens, to 1100°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.

MOLDS AND DIES

(See page 13)

Test Cylinders and Pellet Molds

2090	Test cylinder outfit, 1.125" I.D.
2090.1	Set of 12 filter pads for 2090
2091	Test cylinder outfit, 2.25" I.D.
2091.1	Set of 12 filter pads for 2091
237005	Stainless steel pan for either
2091.2	Test cylinder outfit all stainless steel, 2.25" I.D.
3619	13mm pellet die for KBr pellets
3902	31mm pellet die, 440 Stainless steel
3876	40mm pellet die, 440 Stainless steel

Anvils

2092	Swivel bearing plate (Requires safety shield)
2095	KBr buffer plate

ASTM Molds

(See page 10)

4074	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"x6" molds
4163	(100) 10"x 10" mylar sheets for 8"x 8" molds
818697D	12"x 12" picture frame mold, 1mm, 2mm or 5mm thick, Stainless steel
818698D	4"x 4" tile mold, 1mm, 2mm or 5mm thick, Stainless steel
818699D	6"x 6" tile mold, 1mm, 2mm or 5mm thick, Stainless steel

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

TESTING/PROCESSING

(See pages 9 and 13)

Pressure Cell Assemblies

2953	Pressure cell, 50 ml
3343	Pressure cell, 100 ml (Model M only)

Plate and Cloth Equipment

2093	Plate and cloth, tray, forming frame and rolled screens
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Cage Equipment

2094	Cage equipment including felt discs, steel discs, tray, bulb type syringe and mounting hardware. Minimum daylight opening of 16" required.
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Polished Chrome Plates and Blotters

(For laminating applications)

235020	Plate with 2-3 micro-inch finish, 1 side polished, 6"x 6" x .031" thick
235021	Plate with 2-3 micro-inch finish, 1 side polished, 9"x 9" x .031" thick
235022	Plate with 2-3 micro-inch finish, 1 side polished, 9"x 12" x .031" thick
235023	Plate with 2-3 micro-inch finish, 1 side polished, 12"x 12" x .031" thick
823003	Protective blotter, 6"x 6"
823012	Protective blotter,

823005	9"x 9" Protective blotter, 9"x 12"
Heated Test Cylinders	
2472	Heating jacket with 1.125" test cylinder
2417	Heating jacket with 2.25" test cylinder

SAFETY SHIELDS

(See page 14)

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

GAUGES/THERMOMETERS



Gauges for Model C

381005	Gauge normally furnished with Model C, 0 - 24,000 lb applied force, 200 lb increments
381042	Model C gauge, 0 - 500 lb, 250 kg, 5 lb increments
381001	Model C gauge, 0 - 1,000 lb, 450 lb increments
381002	Model C gauge, 0 - 2,000 lb, 900 lb increments
381003	Model C gauge, 0 - 5,000 lb, 2,250 kg, 50 lb for high and low pressure readings
381004	Model C gauge, 0 - 10,000 lb, 4,500 kg, 100 lb increments
Gauges for Model M	
381008	Gauge normally furnished with Model M, 0 - 50,000 lb applied force, 22,500 kg, 500 lb increments
381006	Model M Gauge, 0 - 5,000 lb,

381007	2,250 kg, 50 lb increments Model M Gauge, 0 - 10,000 lb, 4,500 kg, 100 lb increments
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Two Gauge Manifold

2096	Two gauge manifold
3676	Digital force display

Dial Thermometers



385001	Dial face thermometer 150°F to 750°F
385002	Dial face thermometer 50°C to 400°C

HYDRAULIC UNITS

(Specify press Catalog Number)

3912	12 ton hydraulic unit
3437	12 ton hydraulic unit with gauge and coupling assembly
3925	25 ton hydraulic unit
3438	25 ton hydraulic unit with gauge and coupling assembly
321007	Pump and reservoir for 30 ton presses
3467	Hydraulic cylinder for 30 ton presses
3729	12 ton repair kit
3730	25 ton repair kit
2170	Carver hydraulic fluid

AUTOPAK POWER UNITS

(See page 16)

3946D	AutoPak/12, for 12 ton presses, digital control
3947D	AutoPak/25, for 25 ton presses, digital control
3948D	AutoPak/30, for 30 ton presses, digital control

FLOOR STANDS

(See page 14)

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

Consult factory for other accessories not listed here

AutoPak™ Power Units

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

It is equipped with a micro-processor control system and features a 1/4 hp DC motor, two-stage hydraulic pump, externally adjustable pressure control, pressure gauge and automatic cycle control. Two-hand "anti-tie-down" controls protect the operator. Shown with optional digital platen temperature controllers. Consult factory for heated press applications.



Catalog No.	Model	Capacity (tons)	Control
3946D	AutoPak/12	12	Digital
3947D	AutoPak/25	25	Digital
3948D	AutoPak/30	30	Digital

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

Custom Press

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 twenty ton four-column hydraulic press used in research and development applications.



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 55 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 completely 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 450 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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