

LABORATORY PRESSES & ACCESSORIES

The Standard Since 1912



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0.5 to 100 ton capacities. Custom engineered presses.

The World's Most Popular Laboratory Presses

Tie Rod Columns – High tensile steel with precision threads for parallelism and rapid daylight adjustment

Bolsters – Iron castings for minimum deflection

Hydraulics – Heavy duty cylinder and matched pressure gauge

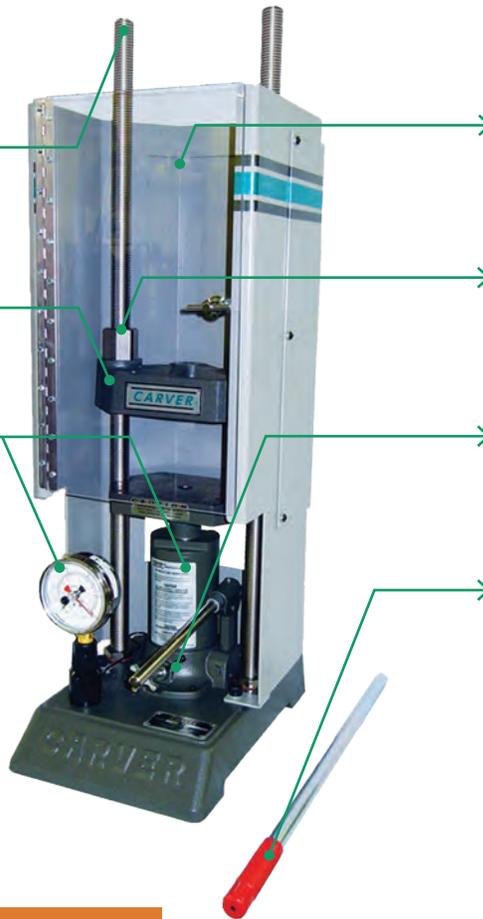
Safety Shield – Standard on all new presses, recommended for all applications

Tie Rod Nuts – Dual nuts for precise daylight and parallel adjustment

Overize Pressure Release Valve – Ease of operation

Extension Handle – For easy operation

Catalog No. 3851-0
Model C, 12 ton capacity



CARVER LABORATORY MANUAL PRESSES PROVIDE THESE BENEFITS.

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 user-friendly control system and integral safety enclosures. Accessories include self-contained, electrically operated AutoPak hydraulic power unit 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 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.

- **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.

UL AND CE CONFIGURATIONS

Many Carver presses are available in UL and CE configurations. Contact us for price and availability.



HOW TO SELECT THE RIGHT CARVER PRESS FOR YOUR APPLICATION

1. GENERAL OR SPECIAL PRESS

Determine if you want a general laboratory press or one dedicated to a special application.

General.....pages 4, 5, 6, 8-12
Special.....pages 7, 13, 17

2. CLAMP FORCE & MODEL

Determine clamp force and choose benchtop or floor standing model.

Benchtop (12 to 30 tons)pages 4, 5, 7, 8, 9, 10, 11, 12
Floor Standing (30 to 100 tons) ...page 6, 7

3. HEATED PLATENS

Decide if heated platens will be needed.

Heated Floor Modelspages 4, 5, 6, 7
Heated Benchtoppages 5, 7, 8, 9, 13
Unheated Floor Modelspage 4, 5, 6, 7
Unheated Benchtoppages 5, 10, 11, 12

4. SIZE SPECIFICATIONS

Refer to specification tables for appropriate work area (platen size) and daylight opening (working height between platens).

5. COLUMN CONFIGURATION

Refer to photos and descriptions to select two- or four-column configuration.

6. HEAT CONTROL & PLATEN OPTIONS

Select heat control level desired and platen options on page 14.

7. ACCESSORIES

Refer to pages 12, 14 thru 19 to select appropriate accessories for your application.



Catalog No. 3891 PL
Auto M-PL,H 25 ton capacity

Auto Series Compact Automatic Benchtop & Floor Standing Presses

15 TO 48 TON CAPACITY



Integral Safety Shield –
Surrounds work area for safe operation

Threaded Rods –
Permit adjustment of daylight opening

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

Heated Platens* –
With digitally controlled cartridge heaters

Hydraulic Cylinder –
Delivers up to 48 tons of clamping force

Unitized Base – Makes installation and set-up easy

Precision Ground Bolsters – Provide maximum rigidity

Door Interlock Switch – Prevents operation when safety shield is open

Color Touch Screen Interface – 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/30-12 PL, HC, 30 ton capacity

* Indicates optional equipment

CARVER'S AUTO SERIES PRESSES BRING A WORLD OF POWER & CONTROL OPTIONS TO YOUR LAB.

Carver has incorporated over 100 years experience in laboratory presses into their automatic 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. Available options: Automatic cooling, floor stands, force/temperature calibrations, seven day timers, and additional kits available.

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

AutoPak power units are available for existing manual presses (see page 17).



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

SPECIFICATIONS

Model	Catalog Number	Max. Clamp Force (U.S. tons (lb))	Heated Platens	Platen Size (in)	Ram Stroke (in)	Daylight Opening (in)	Dimensions W x D (in)	Height (in)	Weight (lb)
Auto C-P	3888	15 (30,000)	No	6 x 6	6	0.75 to 16	42.50 x 24.00	46	675
Auto C-PL,H	3889		Yes			0 to 12.5		46	715
Auto M-PL	3890	25 (50,000)	No	9 x 9	6	0.75 to 16	42.50 x 24.00	46	675
Auto M-PL,H	3891		Yes			0 to 11		46	765
AutoFour/1512-PL	3892	15 (30,000)	No	12 x 12	6	1 to 17	50.00 x 29.25	46	995
AutoFour/1512-PL,H	3893		Yes			0 to 12		46	1,200
AutoFour/1515-PL	4530	15 (30,000)	No	15 x 15	6	8 to 17	50.00 x 29.25	46	1,500
AutoFour/1515-PL,H	4531		Yes			2 to 12		46	1,775
AutoFour/3012-PL	3894	30 (60,000)	No	12 x 12	6	1 to 17	50.00 x 29.25	46	995
AutoFour/3012-PL,H	3895		Yes			0 to 12		46	1,200
AutoFour/3015-PL	4532	30 (60,000)	No	15 x 15	6	8 to 17	50.00 x 29.25	46	1,500
AutoFour/3015-PL,H	4533		Yes			2 to 12		46	1,775
AutoFour/4815-PL*	5400	48 (96,000)	No	15 x 15	4.25	7 to 22	61 x 40	72	3,074
AutoFour/4815-PL,H*	5401		Yes			2 to 15		72	3,384
AutoFour/4818-PL*	5402	48 (96,000)	No	18 x 18	4.25	7 to 22	61 x 40	72	3,074
AutoFour/4818-PL,H*	5403		Yes			0 to 15		72	3,444

* 48 ton models are floor standing. Design includes an integral wrap around floor stand.

AUTO SERIES "PL" CONTROL PANEL

Carver, Inc. Introduces their New Auto Series Plus Automatic Hydraulic Laboratory Presses. These new presses feature a large 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. Automatic bump sequence. (May be programmed in any/all segments). A seven day timer for auto platen heat-up as an optional feature.

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
- Automatic bump sequence
- Seven day timer for auto platen heat-up (optional)
- 48 ton models include an integral wrap-around floor stand



Large 7" Color Touch Screen Interface –
Degree setting for Fahrenheit and Celsius and units of measure setting for lbs., Kg., U.S. tons and metric tons

"Open" Button –
Single button opens press

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

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 NFPA 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°, 650°, 800° or 1200°F, with digital temperature controllers, low pressure system, pressing speed control and automatic platen cooling.

Guards – Improved protection for operator and by-standers

Solid Steel Bolsters – Minimize deflection

Stress-Proof Tie Rod – Extra threads for adjustment of daylight opening

Heated Platens – Electric cartridge heaters with individual digital temperature controllers

Hydraulic System – Self-contained, quiet operation

Unitized Base – Rapid installation

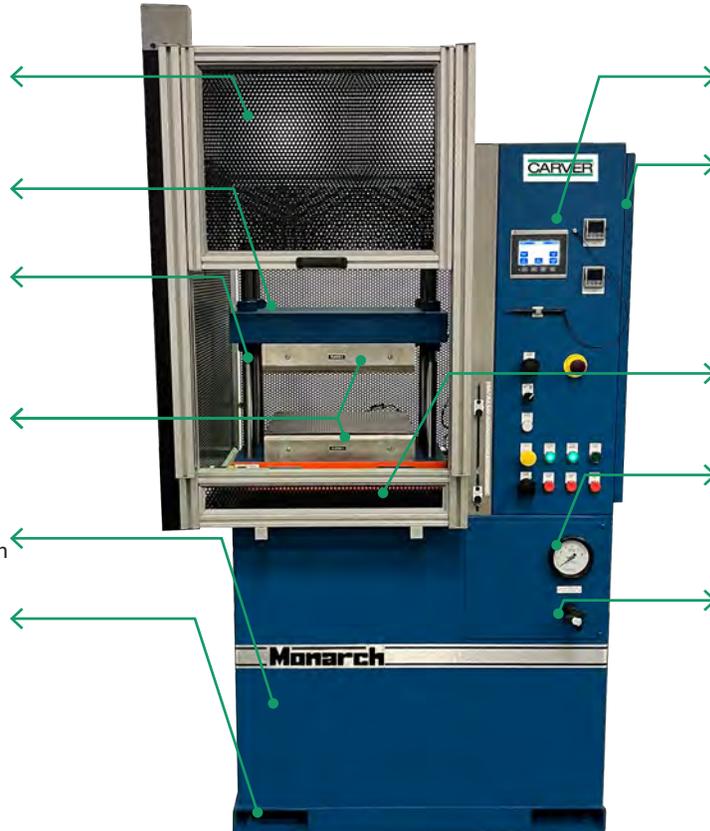
Access Module – Program press functions

Control Cabinet – NEMA rated enclosure protects operator and components

Powerful Hydraulic Cylinder – Double-acting NFPA design

Pressure Gauge – 4" gauge displays operating force in tons

Pressure Control Valve – Adjust clamping force



SPECIFICATIONS

Model	Maximum Capacity (U.S. tons)	Nominal Work Area (in)	Adjustable Daylight Opening*	Cylinder Stroke (in)	Tie Rod Diameter (in)	Dimensions 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		12 x 12				43 x 40		
CMG 50H-12	50	12 x 12	8 to 16	8	1.75	60 x 48	78	4,800
CMG 50H-15		15 x 15				60 x 48		4,800
CMG 50H-18		18 x 18				60 x 48		5,000
CMG 50H-24		24 x 24				66 x 50		5,600
CMG 75H-15	75	15 x 15	8 to 16	8	2	63 x 52	78	5,300
CMG 75H-18		18 x 18				69 x 52		5,500
CMG 75H-24		24 x 24				69 x 54		6,100
CMG 100H-15	100	15 x 15	12 to 22	12	3	66 x 54	83	7,000
CMG 100H-18		18 x 18				66 x 54		7,200
CMG 100H-24		24 x 24				72 x 54		7,500

MOLDING ASTM TEST SPECIMENS

PLASTICS, ELASTOMERS & 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°C/minute $\pm 2^\circ\text{C}$ cooling rate.

CMG 30H-12 ASTM, 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

No. 4393-ASTM Model AutoFour/15-ASTM, PL 15 tons &

No. 4394-ASTM Model AutoFour/30-ASTM, PL 30 tons



ASTM CHASE FRAME KITS*

Description (Sample Size)	Catalog Number			100 Mylar Sheets
	Teflon Coated Steel	Stainless Steel	Brass	
4" x 4" x 1/8"	4079	4080	4081	4161
6" x 6" x 1/8"	4082	4083	4084	4162
8" x 8" x 1/8"	4085	4086	4087	4163

*Includes 2 aluminum back-up plates & 50 mylar sheets.



1. Model CMG30H-12 ASTM
2. Model 12-12H-ASTM Manual Press
(Catalog No. 4391-ASTM)
3. Model AutoFour/1512-ASTM-PL
(Catalog No. 4393-ASTM-PL) &
Model AutoFour/3012ASTM-PL
(Catalog No. 4394-ASTM-PL)

PROPPANT CRUSH TEST PRESS

(FRAC) SAND, RESIN COATED SAND & 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 $\pm 2.5\%$ 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.

NO. 5456 PROPPANT CRUSH TEST CYLINDER

Based on ISO 13503-2:2006(E) Crush Cell

Cell: 2" ID x 3.38" tall including removable base, wall thickness is $>0.5"$

Piston: 3.5" tall

All parts constructed of D2 Tool Steel, hardened to 52-56 Rockwell C

Heated Manual Presses

WITH DIGITAL TEMPERATURE CONTROLS & SAFETY SHIELDS

AVAILABLE IN 12, 25 AND 30 TON CAPACITY.



Catalog No. 5420



Catalog No. 4386



Catalog No. 6112



Catalog No. 3856



Catalog No. 4126



Catalog No. 4128

Thermostatic temperature control and special 30 ton high temperature (1,000°F) presses available. Consult factory for details.

Pictures shown with both analog gauge and digital gauge. Standard manual presses come with analog gauge. Digital gauges available upon request. Information on digital gauges may also be found on page 16. Consult factory for details.

Used for Molding, Laminating, Embossing, & Bonding of Various Materials

12 TON PRESSES

NO. 5420	(Model Mini CH) Twelve ton, manual, two-column hydraulic lab press with digital heated platens. Easy-to-read dual scale analog gauge, reading in pounds force and metric tons. Electrically heated platens for temperatures up to 650 deg F (343 C upon request) with digital controller per platen.
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, reading in pounds force 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, reading in pounds force 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, reading in pounds force and metric tons. Has electrically heated platens for temperatures to 650°F with digital controller for each platen.
NO. 6112	(Models 6112) 12 ton, manual, four-column hydraulic lab press with digital heated platens. Electrically heated 15" x 15" platens for temperatures up to 650 deg F (343 C upon request), with one digital controller per platen. Easy-to-read dual scale analog gauge, reading in pounds force and metric tons.
NO. 4123	(Model 12-12-2H) Same press as No. 4122 except has four electrically heated platens with two 2.5" daylights. 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 9" x 9" platens. 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. Optional water cooled platens are also available.
NO. 3856	(Model 25-12H) Twenty-five ton, manual, four-column hydraulic press. Easy-to-read dual scale gauge, reading in pounds force and metric tons. Electrically heated 12" x 12" platens for temperatures to 650°F with digital controller for each platen. Optional water cooled platens are also available.
NO. 6125	(Models 6125) 25 ton, manual, four-column hydraulic lab press with digital heated platens. Electrically heated 15" x 15" platens for temperatures up to 650 deg F (343 C upon request), with one digital controller per platen. Easy-to-read dual scale analog gauge, reading in pounds force and metric tons.
NO. 4126	(Model 25-12-2H) Same press as No. 3856 except has four electrically heated platens with two 3" daylights. 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. Easy-to-read dual scale gauge, reading in pounds force and metric tons. 12" x 12" electrically heated platens for temperatures to 650°F with digital controller for each platen.
NO. 4129	(Model 30-12-2H) Same press as No. 4128 except has four electrically heated platens with two 3" daylights. Optional water cooled platens are available.
NO. 6130	(Models 6130) 30 ton, manual, four-column hydraulic lab press with digital heated platens. Electrically heated 15" x 15" platens for temperatures up to 650 deg F (343 C upon request), with one digital controller per platen. Easy-to-read dual scale analog gauge, reading in pounds force and metric tons.

SPECIFICATIONS

Catalog Number	5420	4386	4120	4122	6112	4123	4389	3856	6125	4126	4128	4129	6130
Model	Mini CH	CH	12-10H	12-12H	12-15H	12-12-2H	MH	25-12H	25-15H	25-12-2H	30-12H	30-12-2H	30-15H
Old Press Number*		2086	3725 & 2625	2697 & 2627		3377 & 2729	2089	2518		2730	2699 & 2629	2731	
Clamping Force: U.S. Tons	12	12	12	12	12	12	25	25	25	25	30	30	30
Lbs	24,000	24,000	24,000	24,000	24,000	24,000	50,000	50,000	50,000	50,000	60,000	60,000	60,000
Max. Temp. (°F)	650°	650°	650°	650°	650°	650°	650°	650°	650°	650°	650°	650°	650°
Platens (in)	6 x 6	6 x 6	10 x 7	12 x 12	15 x 15	12 x 12	9 x 9	12 x 12	15 x 15	12 x 12	12 x 12	12 x 12	15 x 15
Ram Stroke (in)	5.1	5.1	5.1	5.1	5.1	5.1	6.5	6.5	6.5	6.5	6	6	6
Daylight Opening (in)	0 to 4	0 to 15	0 to 9	0 to 10	3-3/4 to 13	2 @ 2.5	0 to 12	0 to 9.5	2-1/2 to 13	2 @ 2.5	0 to 12	2 @ 3	2 to 13
Footprint w x d (in)	19 x 16	19 x 16	26 x 18	29 x 27	32 x 31	29 x 27	23 x 24	29 x 27	32 x 31	29 x 27	37 x 29	37 x 29	41 x 31
Height (in)	25	41	39	44	43.5	46	43.5	42	43.5	46	46	46	43.5
Weight (lb)	225	260	512	851	1,330	1,118	440	864	1,343	1,131	897	1,164	1,379

Thermostatic Temperature Control available on select models. Consult Factory for details.

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

Standard Unheated Manual Presses

AVAILABLE IN 12, 25 AND 30 TON CAPACITY.



Catalog No. 3850



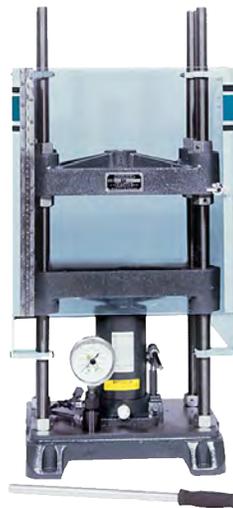
Catalog No. 3851



Catalog No. 3968



Catalog No. 3853



Catalog No. 3855



Catalog No. 3970

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 16.

Used for Pelletizing, Destructive Testing, Fluid Extraction, Pressure Forming, Etc.

12 TON PRESSES

NO. 3850	(Model Mini C) Twelve ton manual, two-column hydraulic press with 6" x 6" square work area. 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, reading in pounds force and metric tons.
NO. 4350.L	Pellet press with 4" round platen. Available with and without pellet die (see page 12).
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, 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 16". 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.
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SPECIFICATIONS

Catalog Number with shield	3850	4350.L	3851	3968	3969	3853	3855	3970
Model	Mini C	Pellet	Model C	12-10	12-12	Model M	25-12	30-12
Old Press Number*	3393	3620	2086	3724	2696	2089	2702	2698
Clamping Force								
U.S. Tons	12	12	12	12	12	25	25	30
Lbs	24,000	24,000	24,000	24,000	24,000	50,000	50,000	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)	0.75 to 7	0 to 5.50	0.75 to 18	1 to 16	1 to 15	0.75 to 16	1 to 14	1 to 17
Footprint w x d (in)	12 x 16	10.5 x 15	13 x 20	17 x 18	21 x 29	23 x 15	21 x 29	29 x 29
Height (in)	25	23	41	39	41	42	42	46
Weight (lb)	140	130	200	420	642	350	695	688

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

Presses for Preparing Pellets, Bricks, Briquettes and Cakes



Catalog No. 4350, 12 ton Manual Pellet Press (less the die)

MANUAL PELLET PRESSES (4350, 4555 & 4565)

The compact 12, 40 or 50 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)



Catalog No. 3887, 25 ton AutoPellet Press

AUTOPELLET PRESSES (3887 & 4387)

The self-contained 25 & 40 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 touch screen control interface allows for programmable force and programmable decompression rate.

SPECIFICATIONS

Catalog Number	Max. Clamp Force U.S. tons (lb)	Platen Diameter (in)	Die (mm)	Ram 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 15	23	115
4350L			N/A					
4555	40 (80,000)	4	31	6.0	0.0 to 6.0	32.5 x 15	31.2	400
4555L			N/A					
4565	50 (100,000)	4	31	6.0	0.0 to 6.0	32.5 x 15	31.2	420
4565L			N/A					
AutoPellet 3887	25 (50,000)	5	N/A	1	1.5 to 7.25	31.5 x 19.75	22 (+ handle)	400
AutoPellet 4387	40 (80,000)	5	N/A	1	1.5 to 7.25	32.5 x 19.75	22 (+ handle)	450

Pellet Models with an "L" means less die. Additional Pellet Die sizes available below and on page 15 and 18 (sold separately).

ACCESSORIES

EVACUABLE PELLET DIES	Used with pellet presses to form the pellets for use in IR and x-ray spectroscopy. Complete with plunger, cylinder base plug, ejector and (2) polished anvils, along with a fitting for vacuum source connection when applicable. Constructed of 440 stainless steel. Available in sample diameter sizes 6, 12, 13, 25, 31 & 40mm. Not recommended for use in heated presses. (See pages 15 & 18 for additional details)
NO. 5021 KBR	Buffer Plate Kit; Assembly Includes: (1) KBr Buffer Plate (90mm diameter), mounts to the Top Bolster and (1) 6" x 6" hardened steel plate with centering grooves, mounts to the Moving Bolster on top of ram. For use with pellet dies and test cylinder outfits.
NO. 5022 KBR	Buffer Plate Kit; Assembly Includes: (1) KBr Buffer Plate (90mm diameter), mounts to the Top Bolster and (1) 9" x 9" hardened steel plate with centering grooves, mounts to the Moving Bolster on top of ram. For use with pellet dies and test cylinder outfits.
NO. 3874	Vacuum Pump Kit; Used with pellet press to evacuate dies. (Available in 115 or 230V)
NO. 5023	Set of (2) 6" x 6" Unheated Hardened Steel Plates; For smooth surface pressing. Steel Plates mount to top and moving bolsters.
NO. 5024	Set of (2) 9" x 9" Unheated Hardened Steel Plates; For smooth surface pressing. Steel Plates mount to top and moving bolsters.
NO. 2090-0	1.125" ID x 3" High, 440 Stainless Steel Test Cylinder Outfit (TCO)
NO. 2091-5	2.25" ID x 3" High, 440 Stainless Steel Test Cylinder Outfit (TCO); For use with standard unheated presses (excluding 4350 Series) for molding, forming bricks, briquettes, pressure forming, crushing, pressing plant and animal tissues, fluid extraction, extrusion and flow tests. Not recommended for use in heated presses. (See pages 15 & 18 for additional details)
NO. 2090-1	Filter pads; For 1.125" Test Cylinder Outfit. (Set of twelve)
NO. 2091-1	Filter pads; For 2.25" Test Cylinder Outfit. (Set of twelve)
NO. 237005	Stainless Steel Pan; Used for fluid extraction when using the Test Cylinder Outfits and filter pads to make a sandwich sample. The stainless steel pan captures the released fluid.

Pneumatic Low Force & Laminating Presses



Shown with enhanced control options

PNP SERIES

**For Lab and Production, Available in 0.5, 2 and 5 Ton Capacities
Platen Sizes: 6" x 6" to 15" x 15"**

Carver has become a leading international supplier of standard and custom pneumatic and hydraulic lab and production presses for aerospace, medical, recreation, automotive, energy, education, rubber & plastics testing, R&D, laboratory & other applications.

- Table top design
- 4-post press construction
- Low friction seals in cylinder
- FEA designed rigid framework for infinite life
- Smooth gray paint
- NFPA pneumatic cylinder
- Linear ball bushings with case hardened rods
- 500°F maximum temperature
- Design pressure = 90 PSIG
- Standard 5 micro particulate air filtration
- Precision regulator with analog gauge
- OSHA and ANSI B11.19-2010 compliant guarding
- Large 7" color touch screen operator interface

LAMINATING PRESSES

Manually operated hydraulic laminating presses with stacked heating and cooling platens in bench top model. Opening heated steel platens with digital heat controls. Lower opening with aluminum platens cored for manual water cooling. Heating one opening while simultaneously cooling the other results in faster production of laminated samples, plastic plaques and other R&D items. Temperature range up to 650°F (shown with digital gauge).



SPECIFICATIONS (LAMINATING PRESSES)

Catalog Number	4386.1012	4389.4022	4132.4112
Model Number	CH-2H-C	MH-2H-C	30-12-L
Old Model Number*			2630
Clamping Force U.S. Tons (Lbs)	12 (24,000)	25 (50,000)	30 (60,000)
Platens Size (in)	6 x 6	9 x 9	12 x 12
Stroke (in)	5-1/8	6.5	6
Daylight Openings (in)	2 @ 1-3/4	2 @ 3	2 @ 3
Footprint w x d x h (in)	19 x 19 x 41	23 x 24 x 39	32 x 27 x 46
Weight (lb)	295	450	1,000
Supply Voltage	115V or 230V - 1ph	230V - 1ph	230V - 1ph
Temperature Range (°F)	650°	650°	650°

Available in deg °C upon request.

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

Heating and Cooling Platen Options

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.

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 (230V available upon request)	Heated Platens Digital Control	Heating/Cooling Platens Thermostat Control	Heating/Cooling Platens Digital Control
3850/Mini C 3851/Model C 4130/150-C	6 x 6	2101 - aluminum 150 to 500°F, 115V	3796 - steel to 650°F (115V)	2103.1 - steel 150 to 500°F	3772 - steel, with hoses to 650°F (115V)
		2102.1 - steel 150 to 500°F, 115V	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, 115V	3973 - steel to 650°F (230V)	2108.1 - steel 150 to 500°F	3972 - steel, with hoses to 650°F (230V)
Four-Column Presses	12 x 12		3906 - steel to 650°F (230V)		3749 - steel with hose assemblies to 650°F (230V)
	15 x 15		6316 - steel to 650°F (230V)		

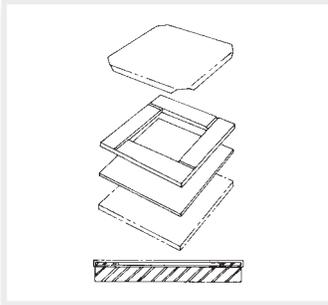


OPTIONAL HEAT TUBE PLATENS AVAILABLE

Accu-Heat™ Heat Tube Platens – For heat uniformity for both Carver Benchtop and Floor Standing Presses

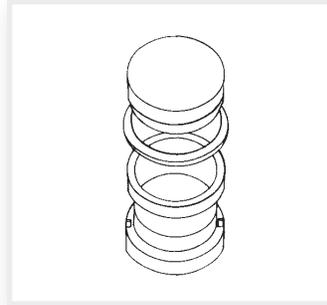
- Accuracy and uniformity up to ±1 F° approx.
- Standard sizes include; 6" x 6", 9" x 9", 12" x 12", 15" x 15", 18" x 18" and 24" x 24"
- Custom engineered sizes quoted upon request
- 500°F maximum temperature
- Heated/cooled configuration also available
- Can be designed to fit existing Carver or other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

Laboratory Accessories for Carver Presses



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, lower punch and 3 spacers for optional film thicknesses.

MOLDS, DIES AND TEST CYLINDER SPECIFICATIONS

Catalog Number	Description	Sample Dimensions	Sample Thicknesses	Maximum Applied Load
818701D	Tile Mold, 440 Stainless Steel	50mm x 50mm	1mm, 2mm & 5mm	N/A
818702D		100mm x 100mm		
818703D		150mm x 150mm		
818704C	Color Dispersion, 440 Stainless Steel	50mm diameter	0.1mm, 0.2mm & 0.5mm	N/A
818705C		100mm diameter		
4417	Pellet Die, 440C Stainless Steel	6mm	N/A	3,500 Lbs Max
4946		12mm		13,000 Lbs Max
3619		13mm		18,000 Lbs Max
4369		25mm		47,000 Lbs Max
3902		31mm		60,000 Lbs Max
3876		40mm		70,000 Lbs Max
2090-0	Test Cylinder, 440C Stainless Steel	1.125"	N/A	19 US Tons Max
2091-5		2.25"		51 US Tons Max
818698D	Tile Mold, 440 Stainless Steel	4" x 4"	1mm, 2mm & 5mm	N/A
818699D		6" x 6"		
818700D		10" x 10"		
Special Application Test Cylinder (See page 7)				
Catalog Number	Description			
5456	Based on ISO 13503-2:2006(E) Crush Cell; Cell: 2" ID x 3.38" tall including removable base, wall thickness is >0.5" Piston: 3.5" tall; All parts constructed of D2 Tool Steel, hardened to 52-56 Rockwell C			



REPAIR PARTS

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

Laboratory Accessories for Carver Presses



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 & 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 19)



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. 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 tonnage maximum of press (12, 25 or 30 tons). Consult factory for press details.

FLOOR STANDS (DESIGNED FOR MOST VINTAGE MODELS)



Catalog/Item Number	Description	Dimensions (W x D x H)	Weight (lb)
223339D	Press Stand (Model 6112, 6215, 6130 presses)	26" x 26" x 24"	180
223171D	Press Stand (2 & 4 column presses)	19" x 19.5" x 30"	165
223215C	Press Stand (2 & 4 column presses with 6" casters)	36" x 26" x 30"	285
223321D	Press Stand for Standard PL Auto Series presses (excluding 48 ton models)	51" x 24" x 24"	385
223319C	Press Stand for Standard PL Auto Series presses with 6" casters (excluding 48 ton models)	51" x 24" x 24"	385

SAFETY SHIELDS



Catalog/Item Number	Description (fits most vintages with or without heat)
3404	Mini "C" Presses
3295	Model "C" Presses
3253	Model "M" Presses
3322	Presses with 10" x 7" Work Area
3418	Presses with 12" x 12" Work Area
4427	Presses with 15" x 15" Work Area

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)
 - Full touch screen interface
 - 10 recipe storage capability
 - 20 programmable segments of clamp force dwell time per recipe
 - Programmable in units of Kg, US Tons, Metric Tons & Pounds
 - Automatic bump sequence (can be programmed in any or all segments)
- Two “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: 20” W x 24” D x 21” H, 130 Lbs

SPECIFICATIONS

Catalog/Item Number	Model	Capacity (U.S. tons)	Supply Voltage (230V available upon request)
3946-NE	AutoPak/12	0.5 – 12	115V 1-Ph
3947-NE	AutoPak/25	0.5 – 25	115V 1-Ph
3948-NE	AutoPak/30	0.5 – 30	115V 1-Ph

Specify press model and serial number of existing press 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.

Accessories Catalog Number Cross Reference Index

HEATING/COOLING (SEE PAGE 14)

Catalog/Item Number	Description
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° to 500°F (Specify 115 or 230V)
2102.1	Set of (2) 6" x 6" heated, steel platens, thermostatically controlled, 150° to 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° to 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
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° to 500°F, (Specify 115 or 230V)
3973	Set of (2) 9" x 9" heated, steel platens, digitally controlled, 650°F, 230V
2108.1	Set of (2) 9" x 9" heated and cooled, steel platens, thermostatically controlled, 150° to 500°F with hoses (Specify 115 or 230V)
2109	Set of (2) 9" x 9" steel steam heating plates, with insulation and braided hoses
3972	Set of (2) 9" x 9" heated and cooled, steel platens, digitally controlled, 650°F, 230V
Platens for Four-Column Presses (also available in deg C upon request)	
3906	Set of (2) 12" x 12" heated, steel platens, digitally controlled, 650°F, 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
6108	Set of (2) 15" x 15" heated and cooled steel platens, digitally controlled, 650°F, 230V

AUTOPAK™ POWER UNIT (SEE PAGE 17)

Catalog/Item Number	Description
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

MOLDS AND DIES (SEE PAGE 12 & 15)

Catalog/Item Number	Description
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
5456	2" ID Proppant Crush Test Cylinder based on ISO 13503-2:2006(E) Page 7 & 15
2092	Swivel bearing plate (Requires safety shield)
2095	KBr buffer plate
818744C	Pharmaceutical pellet die holder
ASTM Molds (See page 7)	
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 15)	
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, 0.1mm, 0.2mm or 0.5mm thick, Stainless steel
818705D	100mm diameter color dispersion disc, .01mm, 0.2mm or 0.5mm thick, Stainless steel

TESTING/PROCESSING

Catalog/Item Number	Description
Polished Plates (For laminating applications)	
235020	SS Plate with #8 mirror finish, polished on 1 side, 6" x 6" x 0.03" thick
235021	SS Plate with #8 mirror finish, polished on 1 side, 9" x 9" x 0.03" thick
235022	SS Plate with #8 mirror finish, polished on 1 side, 9" x 12" x 0.03" thick
235023	SS Plate with #8 mirror finish, polished on 1 side, 12" x 12" x 0.03" thick
Heated Test Cylinders	
2472	1.125" heated test cylinder
2417	2.25" heated test cylinder

SAFETY SHIELDS (SEE PAGE 16)

Catalog/Item Number	Description
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" platens
3418	For most presses with 12" x 12" platens
4427	For 3690 and 3693 with 15" x 15" platens

FLOOR STANDS (SEE PAGE 16)

Catalog/Item Number	Description
223339D	Press stand for 6112, 6125, 6130 presses
223171D	Press stand for 2 column and 4 column presses
223215C	Press stand for 2 column and 4 column presses with casters
223219D	Press stand for standard Auto Series presses (excluding 48 ton models)
223229C	Press stand for standard Auto Series presses with casters (excluding 48 ton models)

HYDRAULIC UNITS (SEE PAGE 15)

Catalog/Item Number	Description
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)

Specify press serial number.

ANALOG GAUGES (SEE PAGE 16 FOR DIGITAL GAUGE OPTIONS)

Catalog/Item Number	Description
Gauges for Model B/C	
381005	Gauge normally furnished with Model C press, 0 - 24,000 lbs applied force, 11 metric tons, 200 lb increments
381042	Model B/C gauge, 0 - 500 lbs, 0.225 metric tons, 5 lb increments
381001	Model B/C gauge, 0 - 1,000 lbs, 0.45 metric tons, 10 lb increments
381002	Model B/C gauge, 0 - 2,000 lbs, 0.9 metric tons, 20 lb increments
381003	Model B/C gauge, 0 - 5,000 lbs, 2.25 metric tons, 50 lb increments
381004	Model B/C gauge, 0 - 10,000 lbs, 4.5 metric tons, 100 lb increments
Gauges for Model K/M	
381008	Gauge normally furnished with Model M press, 0 - 50,000 lbs applied force, 22.5 metric tons, 500 lb increments
381006	Model K/M Gauge, 0 - 5,000 lbs, 2.25 metric tons, 50 lb increments
381007	Model K/M Gauge, 0 - 10,000 lbs, 4.5 metric tons, 100 lb increments
381176A	Model K/M Gauge, 0 - 1,000 lbs, 0.45 metric tons, 10 lb increments
Two Gauge Manifold (See page 16)	
2096CE	For most std manual presses, except the Mini C
2096CE-1	Mini C only
Dial Thermometers	
385001	Dial face thermometer 150°F to 750°F
385019	Dial face thermometer 50°C to 400°C

VISIT OUR STORE AT CARVERPRESS.COM OR CONSULT FACTORY FOR ADDITIONAL PARTS/ACCESSORIES.



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.

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 within twelve (12) months from date of shipment. Items to be returned to the factory are subject to 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 260-223-6900 or wabashservice@acscorporate.com

Carver, Inc.

1569 Morris Street, P.O. Box 298
Wabash, Indiana 46992 U.S.A.
Phone 260-563-7577 • FAX 260-563-7625

E-mail: carverpress@acscorporate.com
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EXCEEDING THE STANDARDS IN LABORATORY PRESSES