

CARVER[®]
SINCE 1912

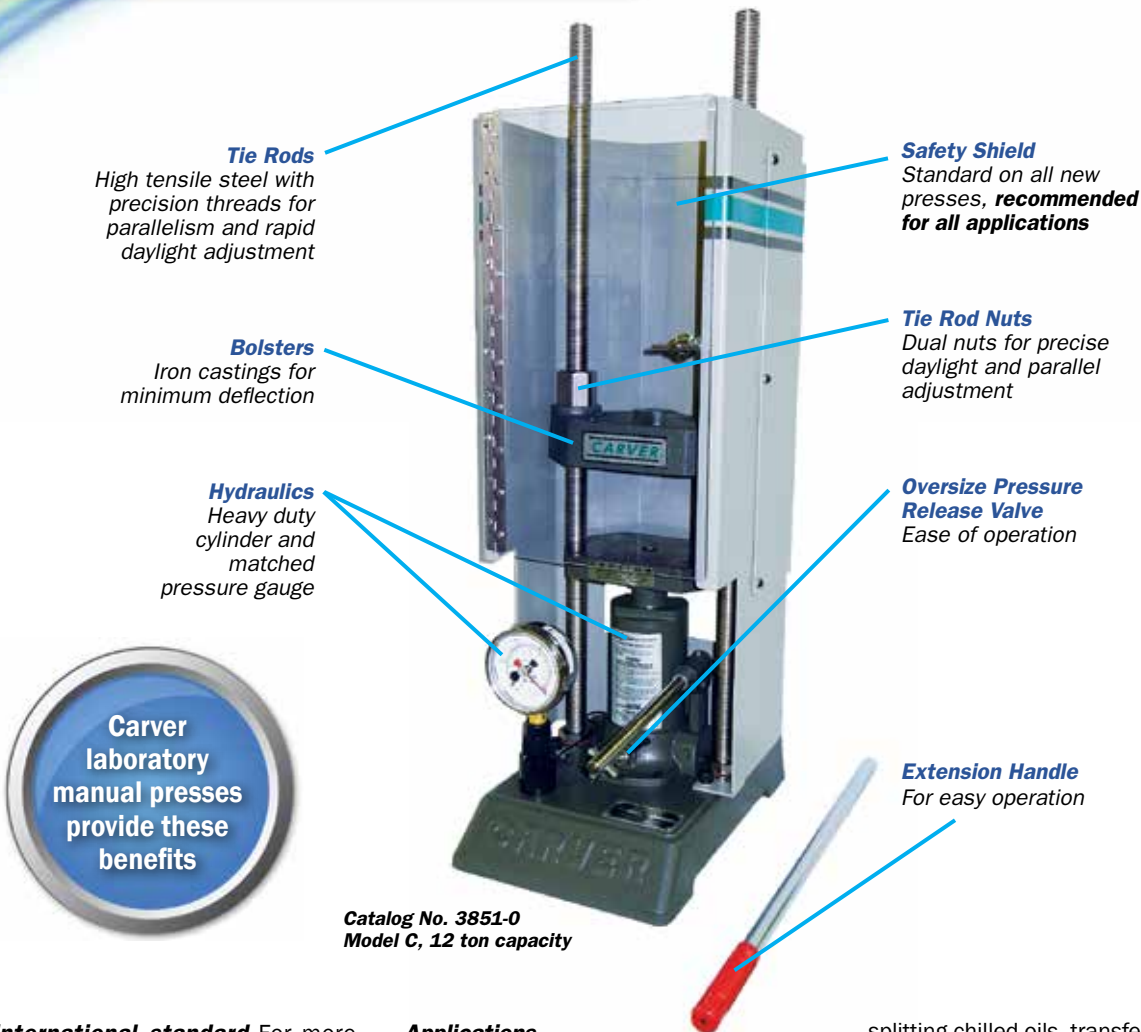
**Laboratory
Presses and
Accessories**



**ISO 9001:2008
Certified**

CARVER®

The World's Most Popular Laboratory Presses



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

The widest choices Standard choices now include two-column and four-column, benchtop and floor standing, and manual and automatic presses with clamping capacities from 12 to 100 tons. Automatic "Auto Series" presses include user-friendly control system and integral safety enclosures. Accessories include new self-contained, electrically operated AutoPak hydraulic power unit for retrofit to existing manual Carver presses.

Applications

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

splitting chilled oils, transfer molding, and vulcanizing rubber stamps.

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

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

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ISO 9001:2008 Certified

More Choices, More Features, More Performance



Catalog No. 3891 NE
Auto M-NE,H 25 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 force and choose benchtop or floor standing model.
 - Benchtop**
7.5 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 heat 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@acscorporate.com

Inside

**Carver presses/
Applications overview.....2**

Press selection3

Table of contents3

Auto Series benchtop presses, 15 to 48 tons4,5

Monarch floor standing presses, 30 to 100 tons6

Presses for plastic ASTM testing7

Portable chillers.....7

Heated platen benchtop presses and rubber stamp presses 7.5 to 30 tons8

Standard benchtop presses, 12 to 30 tons9

Pellet presses and accessories10

E-Series Electric and laminating presses11

Heating and cooling platens 12

Molds, dies and accessories13

Accessories catalog listings 14

AutoPak™ power unit for existing manual presses16

Custom presses16

WABASH hydraulic presses and molding machines16

Cover photo: Carver presses molding medical components.

CARVER®

Auto Series Compact Automatic Benchtop Presses

15 to 48 ton capacity

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

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 48 tons of clamping pressure

Unitized Base
Makes installation and set-up easy

Steel Bolsters
Provide maximum rigidity

Integral Safety Shield
Surrounds work area for safe operation

Door Interlock Switch
Prevents operation when safety shield is open

Full 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

Auto Series presses feature integral power unit for automatic operation

CE available

Catalog No. 4533
Auto Four/3015-NE,H, 30 ton capacity

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



Carver Auto "C" presses molding medical components.*

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



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

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

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

Auto Series "NE" Control Panel

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



Full Touch Screen Interface

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

"Open" Button
Single button opens press

"NE" Control Description:

Carver Auto Series automatic hydraulic laboratory presses feature an enhanced "NE" digital control system. Offering 15 to 48 tons of clamping force (minimum 1,000 lbs). The Auto Series presses also offer a work area (platen size) range of 6" x 6" to 18" x 18". These benchtop presses are typically used in quality control, research and development for test sample preparations, destructive testing, molding, laminating and fluid extraction.

The new "NE" controls feature full touch screen interface with a proximity switch for adjustable slowdown position. Platen heat is controlled through the PLC on heated models and selection for auto reheat at end of cycle is provided. Platen temperature values may be entered in degrees Fahrenheit or Celsius and the display can easily be switched between the two units. Either force

or temperature mode may be chosen per segment. Clamp force values may be entered in pounds, kilograms, US tons or metric tons and the display can easily be switched between the units.

Carver Auto Series Presses also have two hand "anti-tie-down" close buttons and an interlocked safety enclosure with hinged door are provided for operator safety. This programmable control system has storage capacity of 10 recipes, each segmented recipe is capable of 20 programmable setpoints of: clamp force, cure time, platen temperature and bump (automatic bump sequence may be programmed in any or all segments). Hydraulic power unit is completely self-contained (1/4 HP) and electrically operated. See below table for press specifications.

Specifications

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

CARVER®

Monarch Hydraulic Lab Presses

30, 50, 75, 100 ton capacity

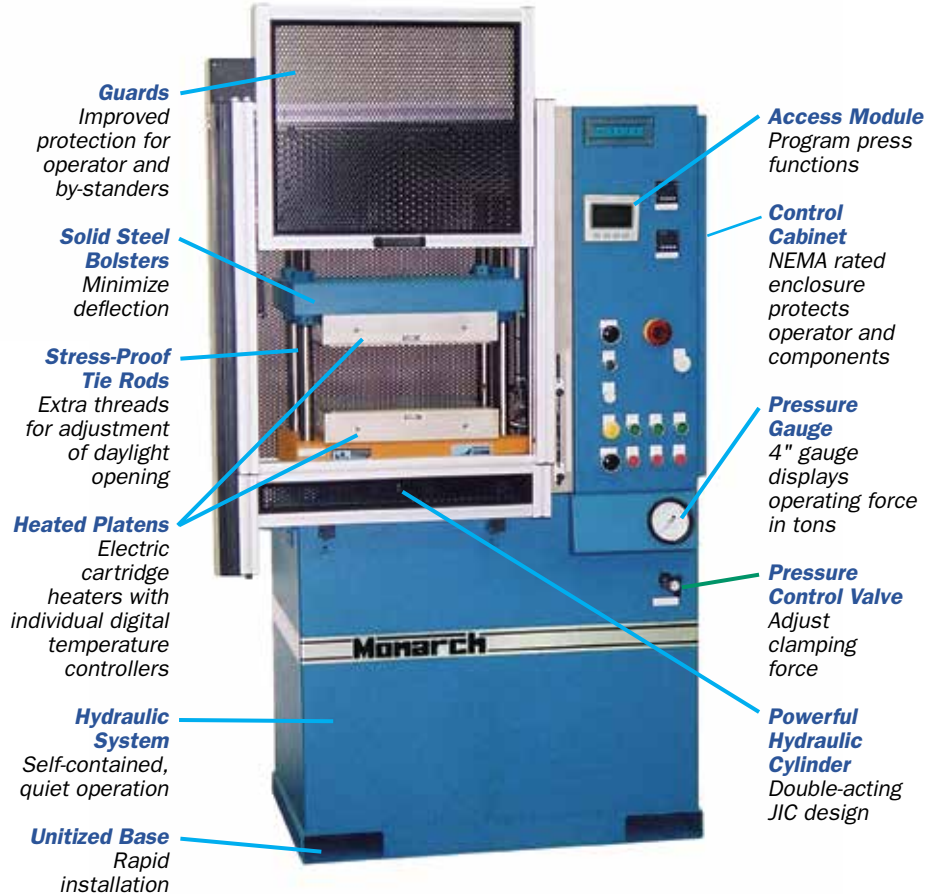
Carver's Monarch laboratory presses with integral hydraulic system and high technology options are based on standard production press models adapted to precision laboratory requirements.

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

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

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

CE available



Specifications

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

Presses for Special Applications



Model "B"
3710-ASTM



No. 4391-ASTM
with Safety Shield



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

Molding ASTM Test Specimens Plastics, elastomers and other materials

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

■ CMG 30H-12 ASTM Model B, 30 tons

Floor standing, four-column, automatic press with heating/cooling platens and programmable controller.

■ No. 4391-ASTM Model 12-12H-ASTM, 12 tons

Benchtop, four-column manual press with heating/cooling platens and programmable controller.

■ Optional Portable Chillers available upon request

■ 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



Proppant Crush Test Press Models CMG28-12-PCR & CMG40-12-PCR Compatible with ISO 13503-2:2006

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

Carver Inc. is proud to introduce Models CMG28-12-PCR & CMG40-12-PCR Proppant Crush Test Presses. These Monarch Series presses meet the critical demands of ISO 13503-2:2006 with unsurpassed cycle repeatability. The proportional hydraulic system is capable of applying a constant rate of 3.8 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" LR 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: 40" W x 35" D x 74" H
- Weight: 1,900 lbs.



No. 5456

2" ID Proppant Crush Test Cylinder based on ISO 13503-2:2006(E) Cell: 2" ID x 3" tall, Wall thickness > 0.5", Constructed of 4340 alloy Steel with Rockwell-C Hardness of > 43 Piston: 2" diameter x 3" length, Constructed of 4340 alloy Steel with a Rockwell-C hardness of > 43

CARVER®

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

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



No. 3690

No. 4386

No. 4120

No. 3856

No. 4126

No. 4128

7.5 TON PRESSES

■ No. 3690

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

12 TON PRESSES

■ No. 4386

(Model CH) Twelve ton, manual, two-column hydraulic lab press with digital heated platens. Daylight to 15". Easy-to-read dual scale gauge, 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. 4123

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

25 TON PRESSES

■ No. 4389

(Model MH) Twenty-five ton, manual, two-column hydraulic press with digital heated 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. 3693

(Model 25-15H) Twenty-five ton, four-column hydraulic press. The 15" x 15" heated platen area allows for larger work area. Standard

with dual scale analog gauge. Easy-to-read dual scale 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" daylight. Optional water cooled platens are available.

30 TON PRESSES

■ No. 4128

(Model 30-12H) Thirty ton, manual, four-column, hydraulic press. Has two-speed pump, first stage for rapid closing and second for pressing mode. 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" daylight. Optional water cooled platens are available.

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

CE available

NOTE: Pictures shown with both analog gauge and digital gauge. Standard manual presses come with analog gauge. Digital gauges available upon request. Consult factory for details. Information on digital gauges may also be found on page 13.

Specifications

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

Standard Presses

12, 25 and 30 ton capacity

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



No. 3850

No. 3851

No. 3968

No. 3853

No. 3855

No. 3970

12 TON PRESSES

No. 3850

(Model Mini C) Twelve ton manual, two-column hydraulic press with 6" x 6" square 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

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

No. 3851

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

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

CE available

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

Specifications

Catalog Number with shield	3850	4350	3851	3968	3969	3853	3855	3970
Model	Mini C	Pellet	Model C	12-10	12-12	Model M	25-12	30-12
Old Press*	3393	3620	2086	3724	2696	2089	2702	2698
Clamping Force Tons (lb)	12 (24,000)	12 (24,000)	12 (24,000)	12 (24,000)	12 (24,000)	25 (50,000)	25 (50,000)	30 (60,000)
Platens (in)	6 x 6	4 round	6 x 6	10 x 7	12 x 12	9 x 9	12 x 12	12 x 12
Ram Stroke (in)	5.1	5.1	5.1	5.1	5.1	6.5	6.5	6
Daylight Opening (in)	.75 to 7	0 to 5.50	.75 to 18	1 to 16	1 to 15	.75 to 16	1 to 14	1 to 17
Footprint w x d (in)	12 x 16	10.25 x 14	15 x 16	17 x 18	21 x 28	19 x 24	21x 28	24 x 27
Height (in)	22	24.4	39	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.

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®

Presses for preparing pellets, bricks, briquettes and cakes

No. 4350, 12 ton Manual Pellet Press



No. 3887 25 ton AutoPellet Press



■ No. 4350 Manual Pellet Press

The compact 12 ton Pellet Press with 4" diameter platen is perfectly suited for KBr pellet pressing. It can also be used for Glove Box applications, compound and formula testing, compression strength tests, fluid extractions and on-site field testing. Includes integral Safety Shield, buffer plate and 13mm evacuable die. (not shown in picture)

■ No. 3887 AutoPellet Press

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

Specifications

☎ available

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

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



■ **Evacuatable Pellet Dies** Used with Pellet Presses to form the pellets for use in IR and x-ray spectroscopy. The stainless steel die includes a fitting for vacuum source connection when applicable. (6, 12, 13, 25, 31 & 40mm dies available. See pages 13 & 15 for more details)



■ **No. 237005 Stainless Steel Pan** Fluid pan for use with all Test Cylinder Outfits. When presses are used for fluid extraction, filter pads sandwich the sample. The stainless steel pan captures the released fluid.

■ **No. 2095 90mm dia. KBr Buffer Plate** Recommended for use with pellet dies. The plate has centering grooves for proper alignment and mounts to the top bolsters to prevent damage by the die plunger during pressing.



■ **No. 5021 KBr Buffer Plate and One (1) 6" x 6" Steel Plate** (for new styles presses only). Recommended for use when pressing pellet dies and/or test cylinder outfits. Picture shows 5021 plate kit installed in press.

■ **No. 5022 KBr Buffer Plate and One (1) 9" x 9" Steel Plate** (for new styles presses only). Recommended for use when pressing pellet dies and/or test cylinder outfits.

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

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



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

■ **No. 2091-5 2.25" I.D. 440 Stainless Steel Test Cylinder and Pellet Mold** For use with standard unheated manual presses for molding, forming bricks, briquettes, pressure forming, crushing, pressing plant and animal tissues, fluid extraction, extrusion and flow tests.



■ **No. 3874 Vacuum Pump Kit** Used with pellet press to evacuate molds or dies. (available 115 or 230V)

E-Series Electric & Laminating Presses

All Electric E-Series Compression Press For Compression Molding of Rubber/Elastomers, Gum Silicones, Various TPR's, Thermosets and Thermoplastics

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

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

Specifications – Electric E-Series Press

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



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

Laminating Presses

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

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

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

Specifications – Laminating Presses

Catalog Number	4130	4132
Model Number	150-C	30-12-L
Clamping Force, U.S. tons (lb)	12 (24,000)	30 (60,000)
Platens (in)	6 x 6	12 x 12
Footprint w x d (in)	16 x 18	19 x 19
Height (in)	39	42
Weight (lb)	190	1,000
Electrical	115 or 230/1/60	



Carver Heat Control Options

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

Manual thermostat control Basic heated platens are controlled by an integral sensor and individual manual thermostats.

Digital control For more precise control, individual digital temperature controllers automatically control platen temperature from a separate control panel.

■ **No. 3984**

Digital control assembly for existing hotplates.

Manual cooling Manual water cooling permits hand operated cooling of platens with monitoring by analog thermometers for thermostatically controlled platens and digitally on the digital platen packages. Also available as an option are manifold kits (consult factory for details)

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 <small>(230V available upon request)</small>	Heated Platens Digital Control	Heating/Cooling Platens Thermostat Control	Heating/Cooling Platens Digital Control
3850/Mini C 3851-0/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)
3853-0/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)		



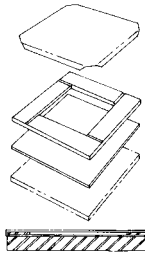
Accu-Heat™ Heat Tube Platens

- Accurate and uniform up to ± 1 F° in many applications
- Standard sizes include; 6" x 6", 9" x 9", 12" x 12", 15" x 15", 18" x 18" and 24" x 24"
- Custom engineered sizes quoted upon request
- 500 F maximum temperature
- Heated/cooled configuration also available
- Can be designed to fit existing Carver or other brand presses
- Contact Carver for pricing and lead times

Laboratory Accessories for Carver Presses

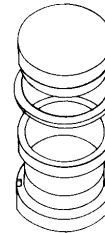
Carver Molds and Dies

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



Tile Mold

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



Color Dispersion Disc Mold

For making plastic film to check color dispersion or clarity. Provides precise film thickness and parallelism. Made of stainless steel or hardened tool steel. Includes die, upper punch, 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	Tile Mold, 440 Stainless Steel	100mm x 100mm	1mm, 2mm & 5mm	N/A
818703D	Tile Mold, 440 Stainless Steel	150mm x 150mm	1mm, 2mm & 5mm	N/A
818704C	Color Dispersion, 440 Stainless Steel	50mm diameter	0.1mm, 0.2mm & 0.5mm	N/A
818705C	Color Dispersion, 440 Stainless Steel	100mm diameter	0.1mm, 0.2mm & 0.5mm	N/A
4417	Pellet Die, 440 Stainless Steel	6mm	N/A	3,500 Lbs Max
4946	Pellet Die, 440 Stainless Steel	12mm	N/A	13,000 Lbs Max
3619	Pellet Die, 440 Stainless Steel	13mm	N/A	18,000 Lbs Max
4369	Pellet Die, 440 Stainless Steel	25mm	N/A	47,000 Lbs Max
3902	Pellet Die, 440 Stainless Steel	31mm	N/A	60,000 Lbs Max
3876	Pellet Die, 440 Stainless Steel	40mm	N/A	70,000 Lbs Max
2090-0	Test Cylinder, 440 Stainless Steel	1.125"	N/A	19 US Tons Max
2091-5	Test Cylinder, 440 Stainless Steel	2.25"	N/A	51 US Tons Max
818698D	Tile Mold, 440 Stainless Steel	4" x 4"	1mm, 2mm & 5mm	N/A
818699D	Tile Mold, 440 Stainless Steel	6" x 6"	1mm, 2mm & 5mm	N/A
818700D	Tile Mold, 440 Stainless Steel	10" x 10"	1mm, 2mm & 5mm	N/A

Special Application Test Cylinder (See page 7)

Catalog Number	Description
5456	Proppant Crush Test Cylinder based on ISO 13503-2:2006(E) Including: Cell: 2" ID x 3" tall, Wall thickness > 0.5", Constructed of 4340 alloy Steel with Rockwell-C Hardness of > 43 Piston: 2" diameter x 3" length, Constructed of 4340 alloy Steel with a Rockwell-C hardness of > 43



No. 2092 Swivel Bearing Plates

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



No. 818744C Punch and Die Holder

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



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

The 2096CE is for most standard manual presses, except the Mini C. The 2096-1CE is specifically designed for the Mini C Model Press only. These manifolds permit mounting of both high (right) and low (left) range gauges for more precise application of pressure. Hand operated shut-off

valve protects low pressure gauge when using high pressure. **Analog Gauges sold separately.** (see page 15)



No. 6306 Digital Gauge

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

CARVER®

Laboratory Accessories for Carver Presses



FLOOR STANDS – Designed for most vintage models

Catalog/Item Number	Description	Dimensions H x W x D	Weight
223160C	Press Stand AccuStamp presses	30" x 23.5" x 23.5"	150#
223171D	Press Stand (2 & 4 column presses)	30" x 19" x 19"	125#
223215C	Press Stand (2 & 4 column presses with 6" casters)	30" x 36" x 36"	260#
223219D	Press Stand for Standard Auto Series presses (excluding 48 ton models)	30" x 47" x 22.5"	280#
223229C	Press Stand for Standard Auto Series presses with 6" casters (excluding 48 ton models)	30" x 47" x 22.5"	280#



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



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**

ACCESSORIES

Catalog number cross reference index

HEATING/COOLING

Platens for Model C Presses

(also available in deg C upon request)

- 2101** Set of (2) 6" x 6" heated, aluminium 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

Accessories for Many Applications

MOLDS AND DIES

(See page 10 & 13)

Test Cylinders, Pellet Dies, and Molds

2090-0	Test cylinder outfit, 1.125" I.D.
2090-1	Set of 12 filter pads for 1.125" ID TCO's
2091-5	Test cylinder outfit all stainless steel, 2.25" I.D.
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 for KBr pellets
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 & 13
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
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Tile Molds and Color Dispersion Disc Molds

(See page 13)

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
818705D	100mm diameter color dispersion disc, .1mm, .2mm or .5mm thick, Stainless steel

TESTING/PROCESSING

Polished Plates

(For laminating applications)	
235020	Plate with #8 mirror finish, 1 side polished, 6" x 6" x .03" thick
235021	Plate with #8 mirror finish, 1 side polished, 9" x 9" x .03" thick
235022	Plate with #8 mirror finish, 1 side polished, 9" x 12" x .03" thick
235023	Plate with #8 mirror finish, 1 side polished, 12" x 12" x .03" thick

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 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



ANALOG GAUGES/THERMOMETERS
(See page 13)

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, .225 metric tons, 5 lb increments
381001	Model B/C gauge, 0 - 1,000 lbs, .45 metric tons, 10 lb increments
381002	Model B/C gauge, 0 - 2,000 lbs, .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, .45 metric tons, 10 lb increments

Two Gauge Manifold

(See page 13)

2096 C €	Two gauge manifold
2096 C €-1	(mini C only)



Dial Thermometers

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

HYDRAULIC UNITS

(Specify press Serial Number)

3912	12 ton hydraulic unit
3925	25 ton hydraulic unit
321007	Pump and reservoir for 30 ton presses
3467	Hydraulic cylinder for 30 ton presses
3729	12 ton repair kit (gray only)
3730	25 ton repair kit (gray only)
2170	Carver hydraulic fluid (pint size)

AUTOPAK™ POWER UNITS

(See page 16)

3946NE	AutoPak/12, for 12 ton existing manual presses.
3947NE	AutoPak/25, for 25 ton existing manual presses.
3948NE	AutoPak/30, for 30 ton existing manual presses.

FLOOR STANDS

(See page 14)

223160C	Press stand for AccuStamp 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)

Consult factory for other accessories not listed here

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.

Add Power to Existing Manual 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 (pressure only)
 - Full touch screen interface
 - 10 recipe storage capability
 - 20 programmable segments of clamp force, cure 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)
- Electrical disconnect (non-fused)
- Approximate Dimensions & Weight: 24” L x 20” W x 21” H, 130 Lbs



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.

Catalog No.	Model	Capacity (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 when ordering

Carver Warranty

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

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

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

Rely on Carver and WABASH Presses for Every Need

Carver, Inc. and WABASH MPI are sister companies located in Wabash, Indiana. For over 70 years WABASH MPI has met the challenge of designing and manufacturing standard and special presses for industry worldwide. Parts, service and support information are readily available. Ask to see installations of Carver or WABASH presses performing productively in your area. Consult us to discuss all of your molding requirements.

WABASH manufactures 15 to 1,000 ton molding machines for elastomers and thermoplastics, Compression molding machines, C-Frame presses, Vacuum chamber molding and laminating presses, Die-cut and Trim presses. For more information on any of our presses call, fax or visit our website.



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