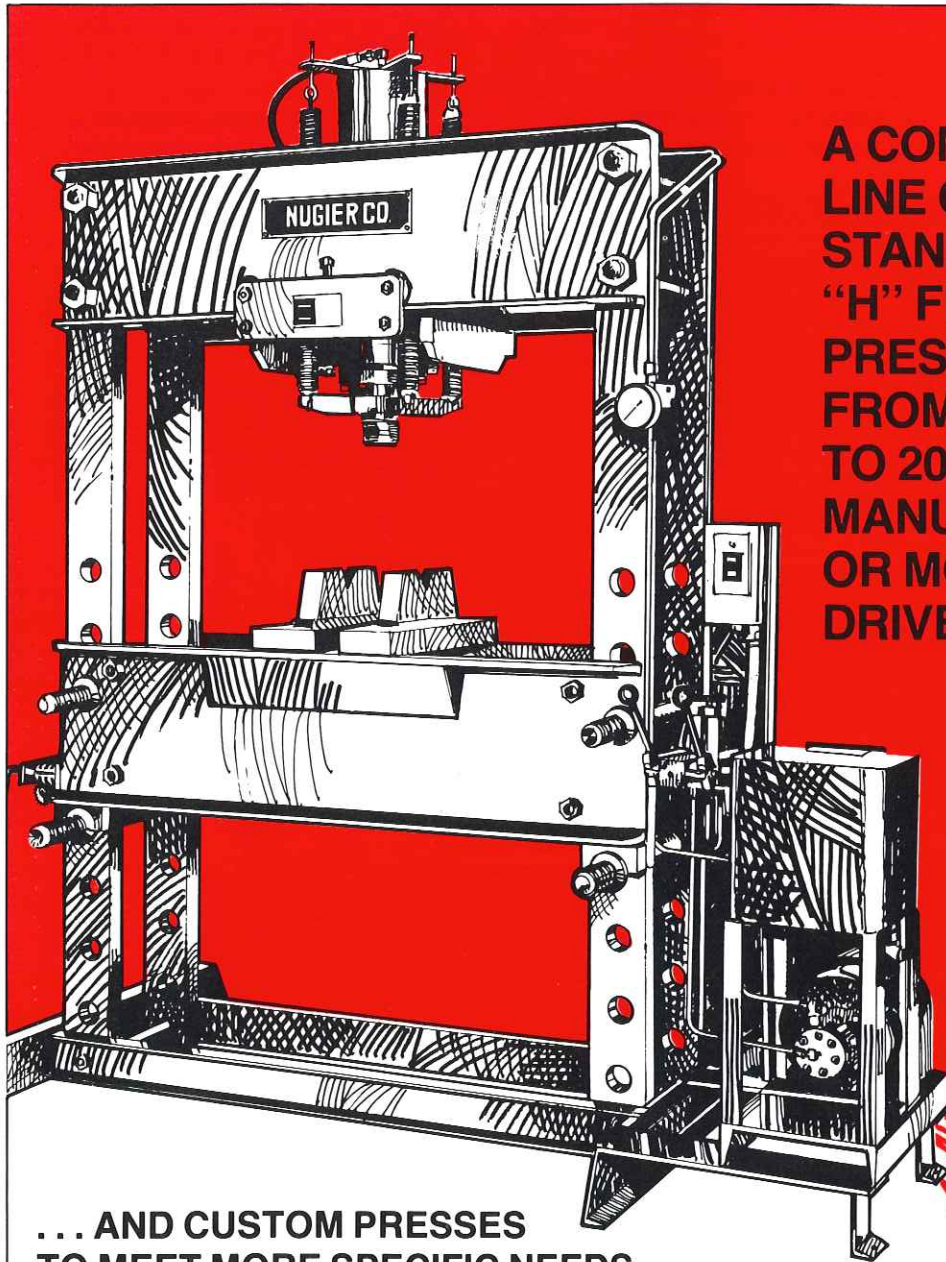


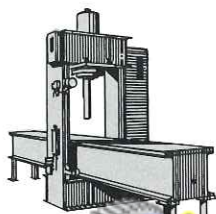


# "H" FRAME HYDRAULIC PRESSES

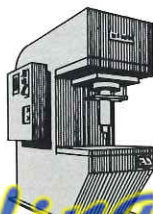


A COMPLETE  
LINE OF  
STANDARD  
"H" FRAME  
PRESSES  
FROM 12 TON  
TO 200 TON.  
MANUAL, AIR  
OR MOTOR  
DRIVEN ...

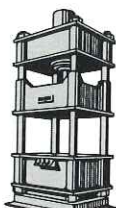
... AND CUSTOM PRESSES  
TO MEET MORE SPECIFIC NEEDS.



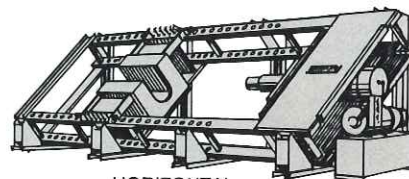
ROLLING FRAME



C-FRAME



GUIDED PLATEN



HORIZONTAL



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# NUGIER

## Over 30 Years of Building Fine Hydraulic Presses

Nugier Company has been building hydraulic presses for over 30 years. In that time we have seen our hydraulic presses used for almost every conceivable operation. These photographs il-

lustrate some of the many operations performed by Nugier hydraulic presses. The only limit is the ingenuity of the owner.

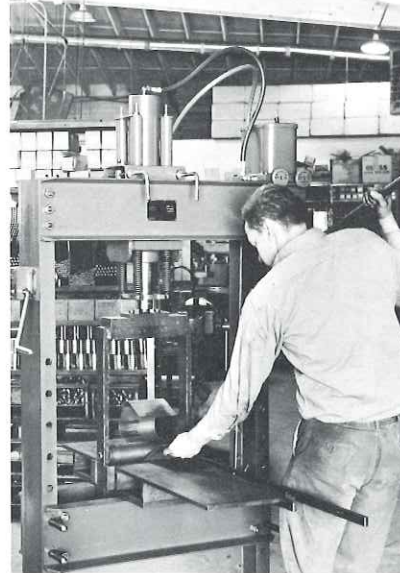
This catalogue is devoted primarily to our line of "H" frame presses. It shows in detail all of the different models, options available, and tells the reasons why Nugier builds presses the way they do.

Of course if you don't find exactly what you are looking for in this catalogue, you will find what you want in one of our other

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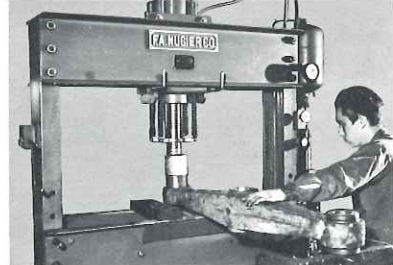
Forming oil tanks for Nugier presses



Installing bearings in oil drilling unit



Removing bushings in truck walking beams



Computer printing rolls formed in press



Broaching keyway in brass gears



Straightening investment casting



Changing solid tires on forklifts



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pieces of literature. Please note that the Nugier Co. is in the business of building ALL types of hydraulic presses, specifically to your needs. Further into the catalogue our capabilities regarding special presses are described. Please keep in mind that we are anxious and willing to help with any application problem, and will test customer parts if at all possible. This aids the customer in obtaining the right machine, and has also given Nugier the fine reputation that we are famous for. Hydraulic presses is our only business.

**SOME USES FOR "H" FRAME HYDRAULIC PRESSES:**

- |            |             |            |                 |
|------------|-------------|------------|-----------------|
| assembly   | die cutting | forming    | straightening   |
| bending    | die try-out | laminating | swaging         |
| broaching  | dimpling    | marking    | trimming        |
| compacting | disassembly | necking    | and many others |
| crushing   | embossing   | pressing   |                 |
| crimping   | expanding   | staking    |                 |

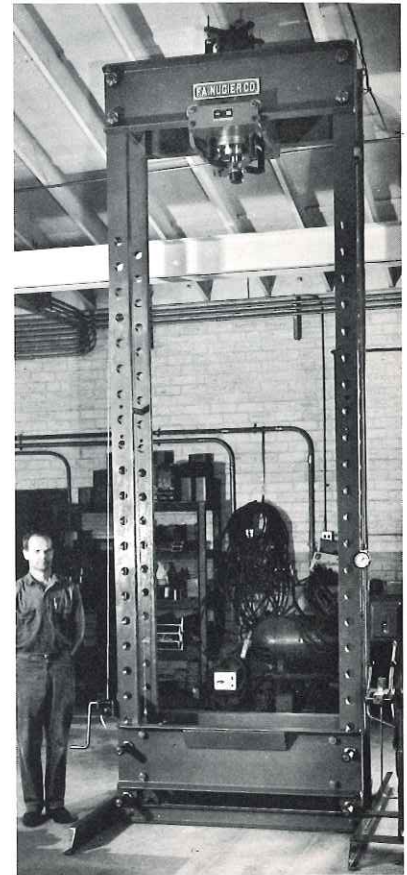
Removing automobile axle bearing with Nugier "Press department"



Making "kings posts" to tie large ships to docks



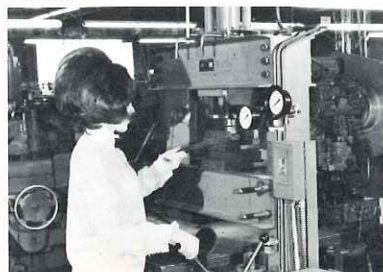
Tall "H" frame for working on large generators



Special machine forming motorcycle fork braces



Bending lawnmower blades



Hot embossing of plywood calendars



**36 MONTH WARRANTY**

Nugier Co. warrants its Standard Products to be free of all defects in material and workmanship for a period of 36 months from date of shipment to the consumer. Nugier Co. warrants its Special Products to be free of all defects in material and workmanship for a period of 12 months from date of shipment. Within the foregoing warranty period, Nugier Co. will repair or replace, at its option, any part proving defective in material or workmanship. Nugier Co. shall not be responsible for the following:

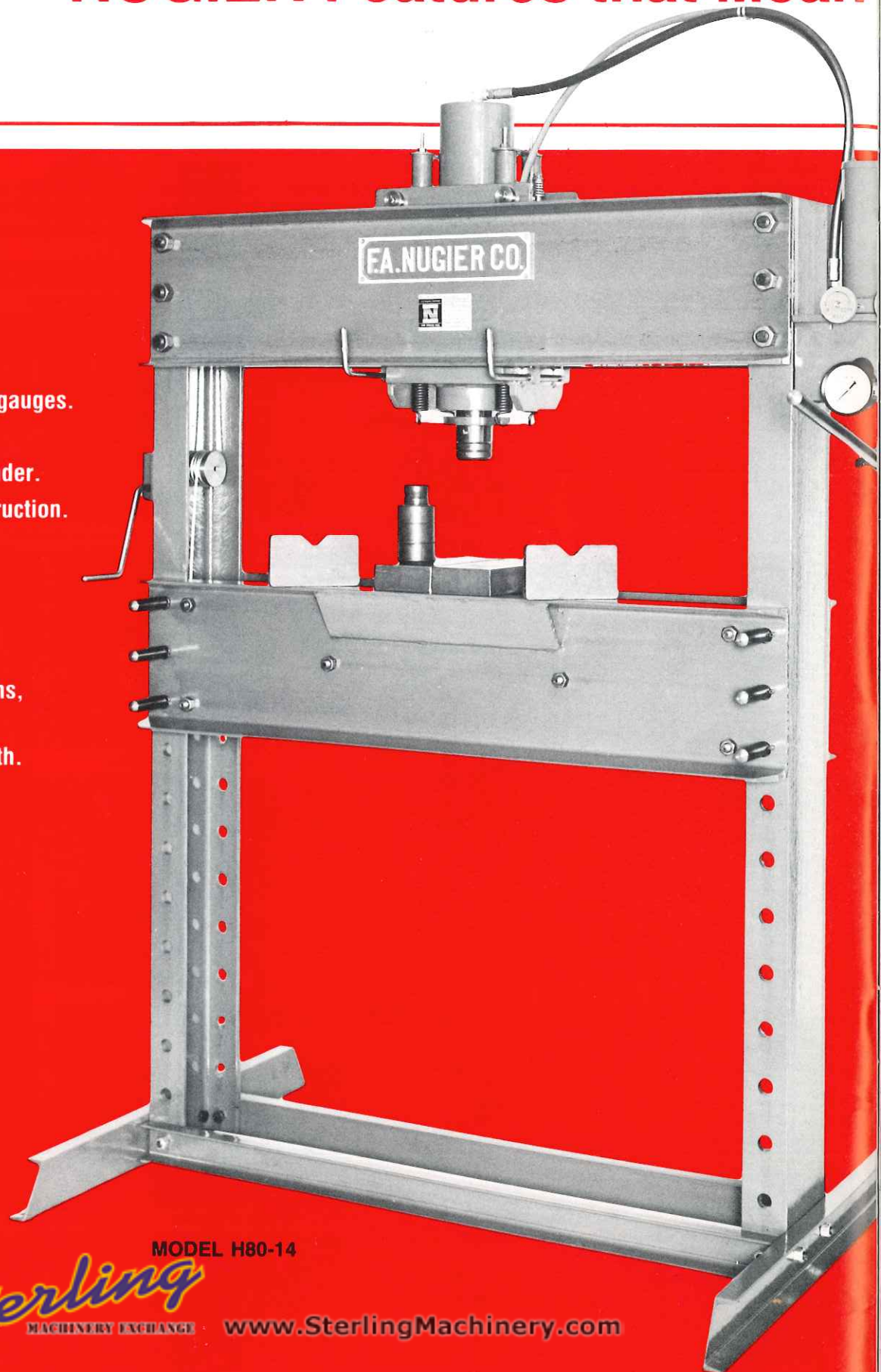
1. Cost of labor or services incurred in the removal of any part from a Nugier Co. product for warranty repair;
2. Cost of labor or services incurred in the installation of any warranty replacement part;
3. Cost of freight or transportation for any warranty repair or replacement.

The foregoing warranty does not apply to any defects caused by negligence, misuse, abuse, accidents, or improper installation. Nugier Co. neither assumes nor authorizes anyone else to assume for it any obligation or liability in connection with its products or this warranty other than as above stated.

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# NUGIER Features that Mean

1. Dependability
2. Delivery
3. 36-Month warranty
4. Set up and ready to go.
5. Convenient controls and gauges.
6. Movable cylinders.
7. Separate pump and cylinder.
8. Precision finished construction.
9. Simplicity of Design.
10. Pre-testing on our floor.
11. In house construction.
12. Single piece ram.
13. Safety features (table pins, winches, valves).
14. Full load over entire width.

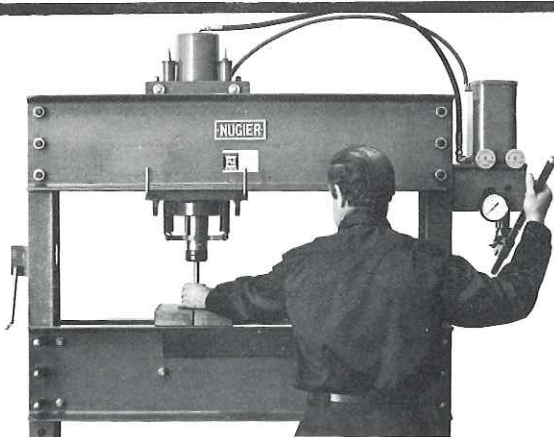


MODEL H80-14

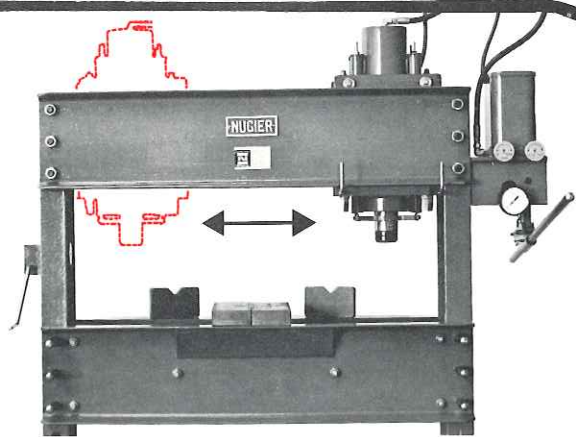
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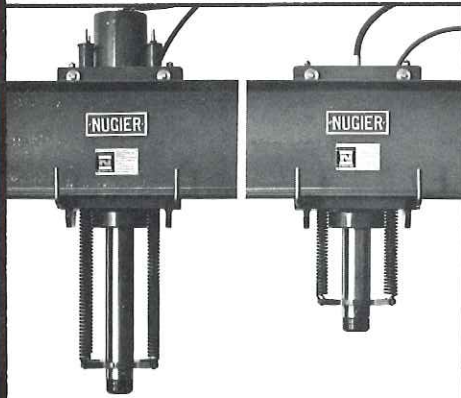
# PROFIT to YOU...



1. The Nugier two speed pump makes it fast as well as easy to obtain maximum capacity. 2. Note that 20% of press capacity is available with the faster of the two speeds. 3. Convenient controls permit the operator to face the press while operating. 4. The gauge is isolated from the cylinder to avoid mechanical shock, which lengthens gauge life.



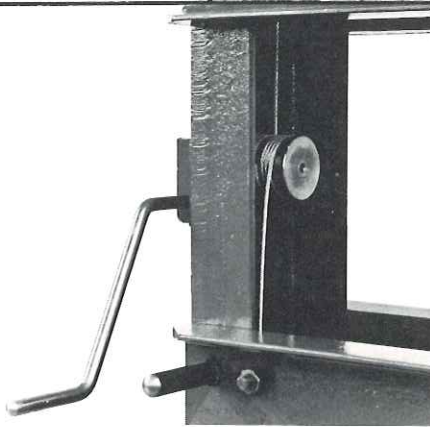
5. Cylinder moves right and left with ease as it moves on machined rollers. 6. Nugier presses use 90° rotating cam handles (spring loaded) to release and lock cylinder in place anywhere across the headrails. 7. Full rated capacity of press across entire width of frame gives operator maximum flexibility. 8. Note greater side movement of cylinder than competitors since cylinder does not house pump and reservoir.



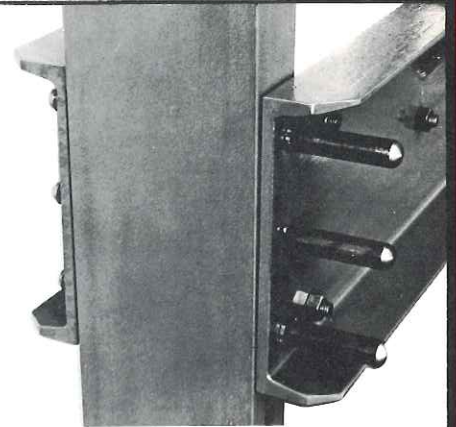
14" Ram Travel

7" Ram Travel

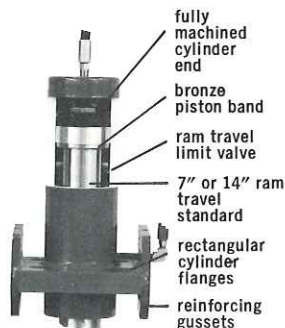
9. Nugier offers 7" or 14" ram travel as standard equipment. 10. The external extension springs provide long life and easy service. 11. Rectangular cylinder flanges, welded to cylinder tube, afford even distribution of press load to frame.



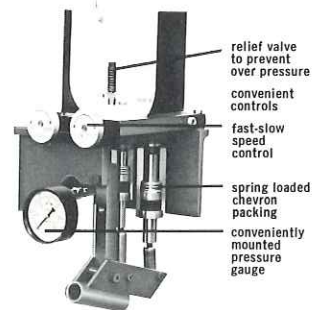
12. Self locking table winch is mounted on outside of the frame, giving operator full width for workpiece. 13. All frames are jig drilled and bolted together for maximum rigidity and alignment.



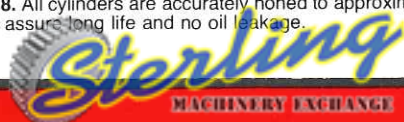
14. All Nugier presses have channel ends and corners cut and ground for safety and good appearance. 15. Cylinders are fully machined with ends radiused for quality appearance. 16. Note heat treated table pins on all Nugier presses (no bending).



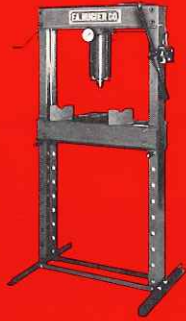
17. All Nugier presses have a positive acting, pin operated, ram travel limit valve, to prevent over-extension of ram that could cause damage to packing and springs. 18. All cylinders are accurately honed to approximately a 15 micro finish to assure long life and no oil leakage.



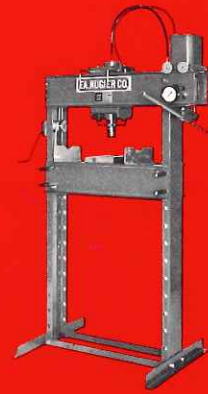
19. All Nugier presses incorporate a safety valve which makes overloading impossible, and meets all safety regulations. 20. Hardened and precision ground pump plungers move in bronze guides for long pump life. 21. Note spring loaded 7 piece chevron packing that insures many years of trouble free service, without pump unit leaking like many other presses do.



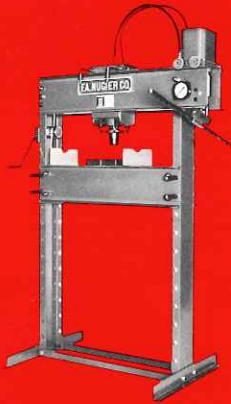
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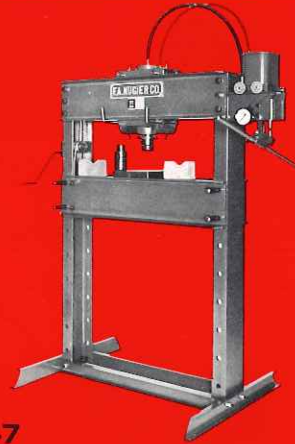
MODEL H25-7



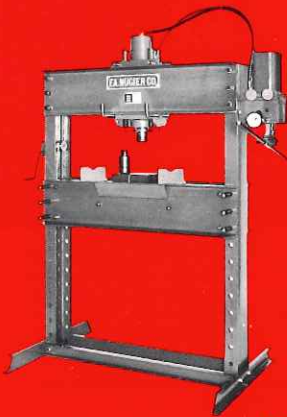
MODEL H40-7



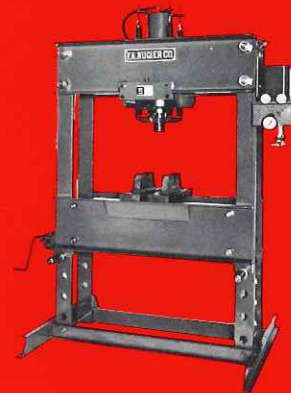
MODEL H50-7



MODEL H60-7



MODEL H80-14

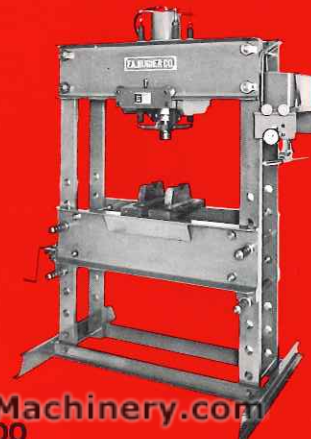


MODEL H100



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MODEL H150



MODEL H200

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# NUGIER Hand Operated Hydraulic Presses

**TWO SPEED PUMPS** All Nugier hand presses have two-speed pumps as standard equipment (optional on the 25 ton). The Nugier pump advances the ram rapidly to the work and will develop 20% of the full capacity of the press with the faster of the two speeds. Thus when pressing low pressure requirements, the operation is approximately five times faster than the screw advance with single pumping speed. The slower of the two speeds make obtaining maximum capacity easy. Note that 110 pounds of force on the pump handle will produce maximum rated capacity of any Nugier press.

**MOVABLE CYLINDER** All Nugier presses have movable cylinders from left to right (except the 25 ton). Note the cylinder and pump are separated on Nugier presses. This gives more side movement of cylinder since cylinder does not incorporate pump and reservoir. Full rated capacity is available across width of frame. Nugier 90° cams are used for locking cylinder side movement on the 40, 50, 60, and 80 ton presses. Nugier has 7" or 14" ram travel available as standard equipment. All Nugier presses have rectangular cylinder flanges for even distribution of cylinder load to frame.

**CONVENIENT CONTROLS** Note the convenient operation of a Nugier press. Operator faces the press and can pump conveniently with workpiece extending out of the front of the press. A large pressure gauge is mounted with pump controls, making easy reading and isolating the gauge from mechanical shock. This will increase the gauge life substantially.

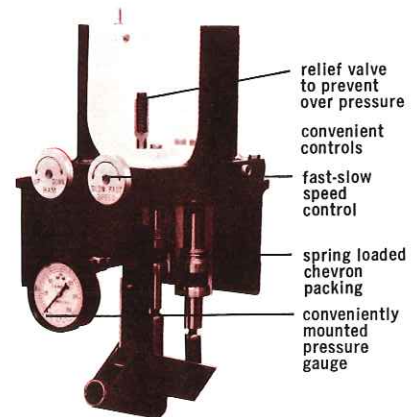
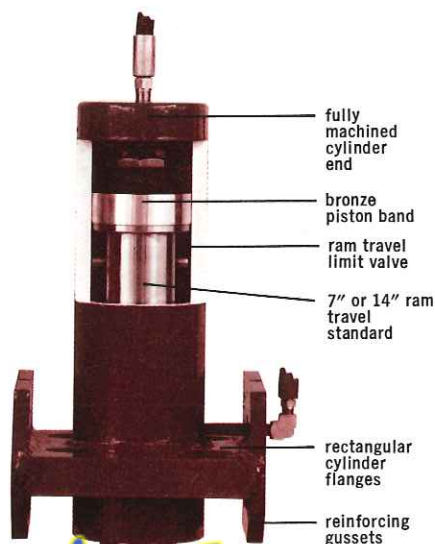
**QUALITY HYDRAULICS** The heart of any press is the hydraulics. In Nugier hand pumps, spring loaded chevron packing is used. Hardened and ground pump plungers move in bronze guides, assuring many years of trouble-free service, WITHOUT LEAKING PUMP UNITS. All Nugier cylinders are honed to approximately a 15 micro finish to assure maximum cup life, and to enable presses to hold pressure for long periods of time.

**ADJUSTABLE TABLE** Table is adjustable with self-locking table winch. Note that winch is mounted outside of the frame, eliminating possibility of obstruction and giving full inside width of machine as usable space.

**SAFETY FEATURES** All Nugier presses are equipped with safety devices to prevent over-extension of ram, and over-loading of press. A maximum capacity relief valve is set at the factory to prevent more than 110% of the capacity of the press. Nugier incorporates a ram travel limit valve to prevent over-extension of ram, and damage to packing and springs.

**FINISHED CONSTRUCTION** All Nugier presses have channel ends and corners cut and ground for safety and appearance. Cylinders are fully machined with ends radiused for quality appearance.

**ALL NUGIER PRESSES ARE SHIPPED  
SET UP AND READY TO GO**

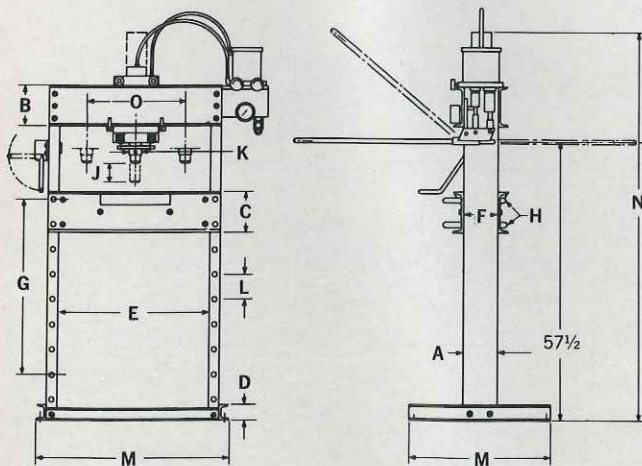


Two Speed Pump

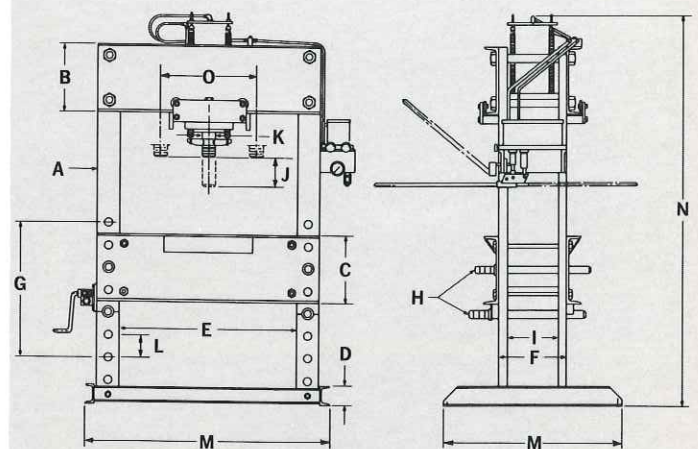
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# NUGIER **HAND OPERATED** HYDRAULIC PRESSES

DESCRIPTION	MODEL H25	MODEL H40	MODEL H50	MODEL H60	MODEL H80	MODEL H100	MODEL H150	MODEL H200	DRAWING REFERENCE
Capacity in tons	25	40	50	60	80	100	150	200	
Handle strokes per inch of ram travel	14	3.2	4.2	5.3	5.3	7.7	10.5	13.7	
Frame uprights	6" channel	7" channel	7" channel	8" channel	18" channel	1½"X5"	2"X5"	2"X6"	A
Head, bed rails	6" channel	8" channel	9" channel	10" channel	12" channel	15" channel	15" channel	18" channel	B & C
Base members	3"X2" angle	3"X2" angle	3"X2" angle	4" channel	4" channel	5" channel	5" channel	5" channel	D
Inside width	30"	30¼"	34"	40"	48"	48"	48"	48"	E
Width between table rails	7½"	7" (9" - \$30.00 extra)	7" (9" - \$30.00 extra)	8" (10" - \$30.00 extra)	8" (10" - \$30.00 extra)	15"	16"	18"	F
Table travel	36"	36"	36"	36"	32"	30"	36"	36"	G
Max. vertical clearance	40"	43"	41"	40"	40"	36½"	36"	41½"	
Bed support pins (4142HT alloy)	1" dia. (2)	7/8" dia. (4)	7/8" dia. (4)	1" dia. (4)	1" dia. (6)	2" dia. (2)	2" dia. (4)	2" dia. (4)	H
Inside uprights	—	—	—	—	—	12"	12"	14"	I
Ram travel	7"	7" or 14"	7" or 14"	7" or 14"	7" or 14"	14"	14"	14"	J
Ram diameter	2¼" dia.	2¾" dia.	2¾" dia.	3¼" dia.	3¼" dia.	3¼" dia.	3½" dia.	3¾" dia.	K
Cylinder bore	2¾" dia.	3½" dia.	3½" dia.	5" dia.	5" dia.	6" dia.	7" dia.	8" dia.	
Table spacing increments	4"	4"	4"	6"	4"	6"	6"	6"	L
Floor space	39"X30"	38"X30"	42"X30"	50"X39"	58"X39"	63"X48"	63"X48"	64"X48"	M
Overall height — 7" ram travel	74"	72"	75"	76"	80"	—	—	—	
14" ram travel	—	82"	85"	86"	87"	104"	104"	104"	N
Left to right cylinder movement	none	21"	24"	26"	34"	31"	30"	26"	O
Cylinder material	cold Drawn Mech. Tube (all sizes)								
Furnished with press	two flat parallels and two "V" blocks				2 flat parallels, 2 "V" blocks and 2 ram noses		Parallels must be ordered separately		
Shipping weight — Approx.	485#	622#	650#	1147#	1210#	2660#	3090#	3920#	



**MODELS  
H25, H40,  
H50, H60,  
H80**



**MODELS  
H100, H150,  
H200**



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## **NUGIER** **HAND OPERATED** **HYDRAULIC PRESSES**

Nugier features the two-speed pump on all hand operated hydraulic presses (optional on 25 ton).

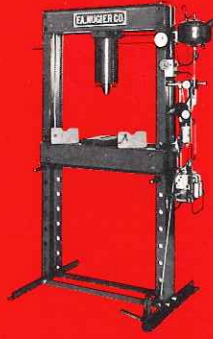
Although most hand operated hydraulic presses are idle most of the day, it is still important to make their operation as rapid and easy as possible. If a single speed pump is used (even with a screw or ratchet advance), then all pressing operations are at a slow and time consuming speed. This single speed has to be reasonably fast, and also capable of getting the press to maximum capacity. As a consequence, the speed is usually slow at best for low pressure requirements, and almost or actually impossible to pump the press capacity.

The Nugier two speed pump will advance the ram just as rapidly as most mechanical advance systems, and will develop approximately 20% of the maximum capacity of the press with the faster of the two speeds. To develop more than this pressure, or to have slow ram movement, just turn one conveniently mounted hand operated knob to shift to the slower speed. This makes exerting maximum pressure very easy in relation to most hand operated hydraulic presses. The slow speed is approximately one-tenth that of the rapid speed.

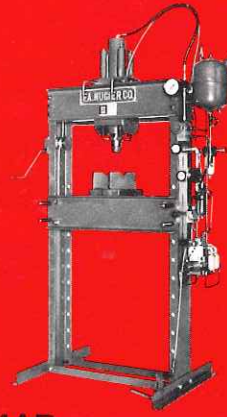
Please note that some manufacturers use two speed pumps that automatically or hydraulically shift to the slower speed. In effect, as soon as the ram encounters any load, the speed is shifted to the slower speed. This has other inherent hydraulic problems, and does not allow the operator choice of speeds. We feel the automatic shifting is not the answer since it has been our observation in 25 years that more than half of all times a hand press is used, it is UNDER this 20% capacity.



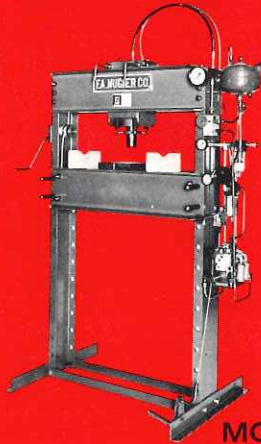
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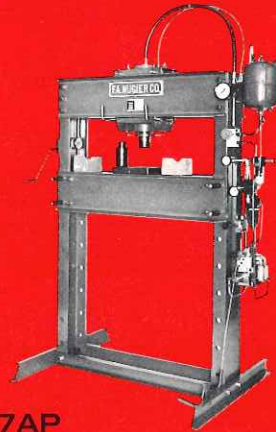
MODEL H25-7AP



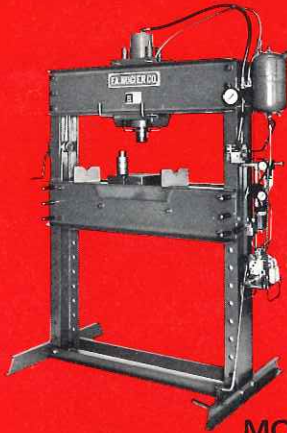
MODEL H40-14AP



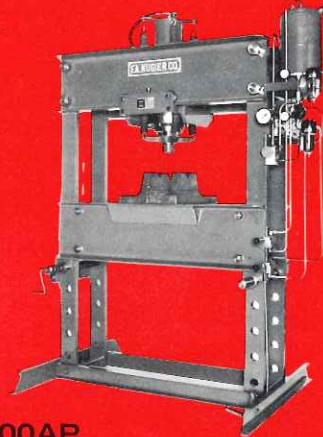
MODEL H50-7AP



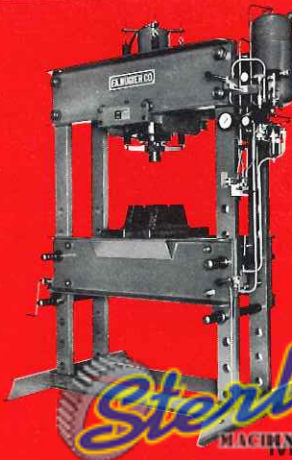
MODEL H60-7AP



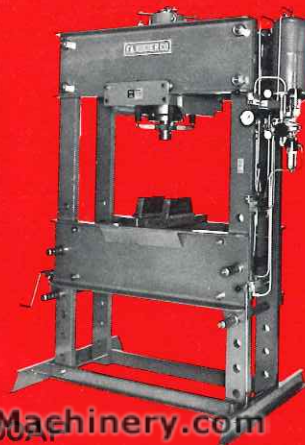
MODEL H80-14AP



MODEL H100AP



MODEL H150AP



MODEL H200AP

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# NUGIER Air Operated Hydraulic Presses

**DOUBLE ACTING PUMP** Nugier manufactures its own patented double acting air operated hydraulic pump. This pump gives high speed operation with virtually no ram pulsation, and very slow precise control of ram movement. This, combined with ultimate dependability and high efficiency make this pump an exclusive feature of Nugier air-hydraulic presses.

**RAPID RAM ADVANCE** Nugier's blow down feature permits rapid ram advance to the work using line air pressure. This saves time, conserves air, and increases pump life since the pump is not operated while advancing the ram.

**MOVABLE CYLINDER** All Nugier presses have movable cylinders from left to right (except the 25 ton). Note the cylinder and pump are separated on Nugier presses, giving more side movement of the ram since the cylinder does not house the pump. Full rated capacity is available across the width of the headrails. Quick acting 90° locking cams are used for locking cylinder movement on 40, 50, 60, and 80 ton presses. Either 7" or 14" ram travel is available. Nugier presses feature rectangular cylinder flanges which afford better distribution of cylinder load to frame.

**CONVENIENT CONTROLS** Note the convenient operation of a Nugier air-hydraulic press. The operator faces the press and can run the pump conveniently with workpiece extending out front of press. A large gauge is mounted with pump controls, making reading easy and isolating the gauge from mechanical shock (extends gauge life).

**PNEUMATIC EQUIPMENT STANDARD** All Nugier air-hydraulic presses come standard with water separator and filter, self-compensating pressure regulator, and air lubricator. Pressure regulator can be used to set maximum pressure for repeating pressure operations.

**FOOT CONTROL STANDARD** All Nugier air-hydraulic presses come standard with both foot and hand controls. This leaves the operator with both hands free to hold work. Hand control can be used for precise ram movement.

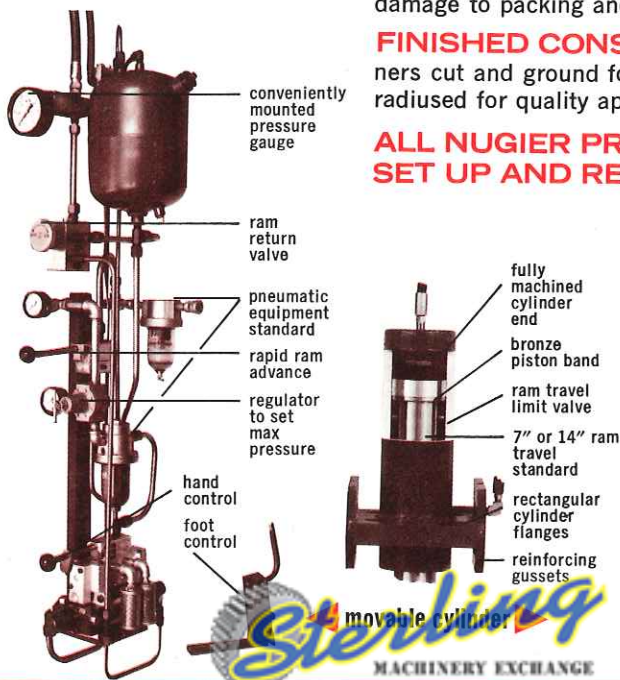
**QUALITY HYDRAULICS** The heart of any press is the hydraulics. In Nugier air-hydraulic pumps, spring loaded chevron packing is used. Hardened and ground pump plungers move in bronze guides assuring many years of trouble-free service. The pump is stall-proof. All Nugier cylinders are accurately honed to approximately a 15 micro finish to assure maximum cup life, and to enable the press to hold pressure for long periods of time.

**ADJUSTABLE TABLE** Table is adjustable with self-locking table winch. Note the winch is mounted outside of the frame, preventing obstruction of full inside width of machine.

**SAFETY FEATURES** All Nugier presses are equipped with safety devices to prevent over-extension of the ram, and over-loading of the press. A maximum capacity relief valve is set at the factory to prevent more than 110% of the capacity of the press. Nugier incorporates a ram travel limit valve to prevent over-extension of ram, and damage to packing and return springs.

**FINISHED CONSTRUCTION** All Nugier presses have channel ends and corners cut and ground for safety and appearance. Cylinders are fully machined with ends radiused for quality appearance.

**ALL NUGIER PRESSES ARE SHIPPED  
SET UP AND READY TO GO**



**RAM SPEEDS—INCHES PER MINUTE OF RAM TRAVEL**

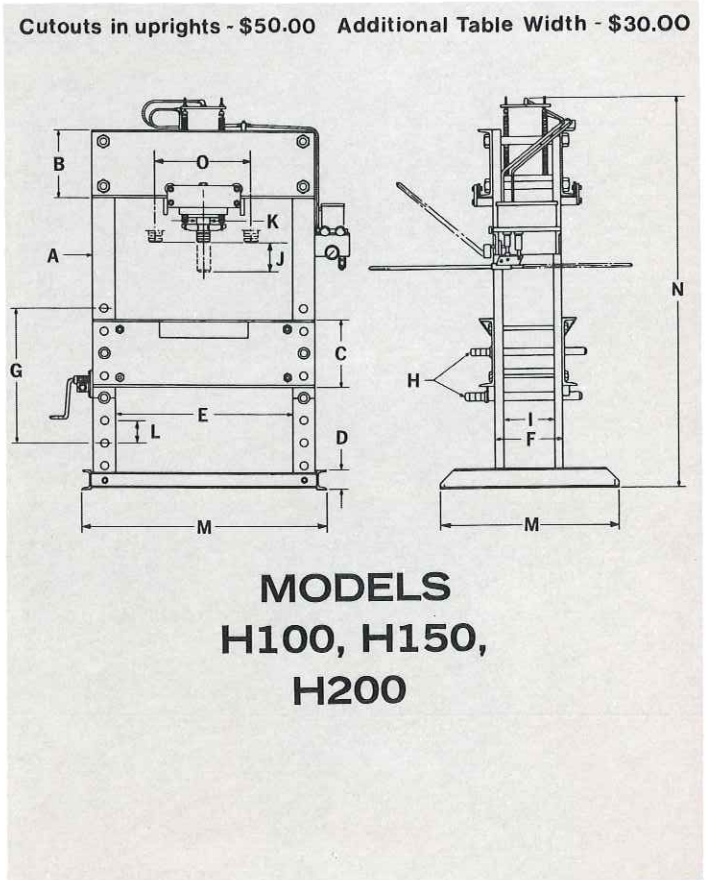
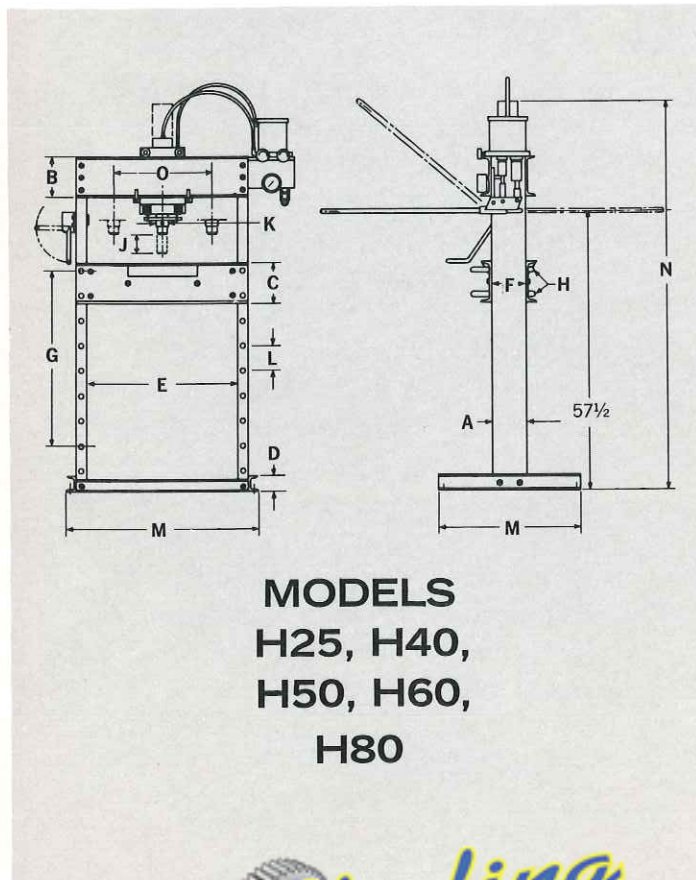
Head Pressures	Sizes of Presses—Tons							
	25	40	50	60	80	100	150	200
<b>100 PSI</b>								
Advance*	Rapid	Rapid	Rapid	Rapid	Rapid	Rapid	Rapid	Rapid
No Load	28"	13"	9.8"	8.7"	8.7"	6"	4.4"	3.4"
Half Capacity	14.4"	6.5"	5.0"	5.2"	4.4"	3.5"	2.2"	1.7"
Full Capacity	3.2"	3.4"	2.6"	2.6"	1.0"	1.2"	.5"	.3"
<b>130 PSI</b>								
Advance*	Rapid	Rapid	Rapid	Rapid	Rapid	Rapid	Rapid	Rapid
No Load	30.4"	13.6"	11.8"	9.2"	9.2"	6.4"	4.7"	3.6"
Half Capacity	18.6"	8.5"	6.4"	6.3"	5.6"	3.9"	2.9"	2.2"
Full Capacity	8.6"	5.4"	4.1"	4.4"	2.7"	2.2"	1.4"	1.0"

\*Rapid advance starts very quickly, but as the ram is extended, spring force increases and advance speed changes. For this reason no ram speeds are tested.

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# NUGIER AIR OPERATED HYDRAULIC PRESSES

DESCRIPTION	MODEL H25	MODEL H40	MODEL H50	MODEL H60	MODEL H80	MODEL H100	MODEL H150	MODEL H200	DRAWING REFERENCE
Capacity in tons	25	40	50	60	80	100	150	200	
Frame uprights	6" channel	7" channel	7" channel	8" channel	8" channel	1½"X5"	2"X5"	2"X6"	A
Head, bed rails	6" channel	8" channel	9" channel	10" channel	12" channel	15" channel	15" channel	18" channel	B & C
Base members	2"X2" angle	3"X2" angle	3"X2" angle	4" channel	4" channel	5" channel	5" channel	5" channel	D
Inside width	30"	30¼"	34"	40"	48"	48"	48"	48"	E
Width between table rails	7½"	7"	7"	8"	8"	15"	16"	18"	F
		(9" - \$30.00 extra)	(9" - \$30.00 extra)	(10" - \$30.00 extra)	(10" - \$30.00 extra)				
Table travel	36"	36"	36"	36"	32"	30"	30"	30"	G
Max. vertical clearance	40"	43"	41"	40"	40"	36½"	36"	41½"	
Bed support pins (4142HT alloy)	1" dia. (2)	7/8" dia. (4)	7/8" dia. (4)	1" dia. (4)	1" dia. (6)	2" dia. (2)	2" dia. (4)	2" dia. (4)	H
Inside uprights	—	—	—	—	—	12"	12"	14"	I
Ram travel	7"	7" or 14"	7" or 14"	7" or 14"	7" or 14"	14"	14"	14"	J
Ram diameter	2¼" dia.	2¾" dia.	2¾" dia.	3¼" dia.	3¼" dia.	3¼" dia.	3½" dia.	3¾" dia.	K
Cylinder bore	2¾" dia.	3½" dia.	3½" dia.	5" dia.	5" dia.	6" dia.	7" dia.	8" dia.	
Table spacing increments	4"	4"	4"	6"	4"	6"	6"	6"	L
Floor space	39"X30"	38"X30"	42"X30"	50"X39"	58"X39"	63"X48"	63"X48"	65"X48"	M
Overall height—									
7" ram travel	74"	72"	75"	76"	80"	—	—	—	
14" ram travel	—	82"	85"	86"	87"	98"	98"	104"	N
Left to right cylinder movement	none	21"	24"	26"	34"	31"	30"	26"	O
Cylinder material	cold Drawn Mech. Tube (all sizes)								
Furnished with press	two flat parallels and two "V" blocks			2 flat parallels, 2 "V" blocks and 2 ram noses		Parallels must be ordered separately			
Shipping weight—Approx.	510#	645#	675#	1180#	1240#	2690#	3120#	3950#	



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**AIR OPERATED**  
**NUGIER**  
**HYDRAULIC PRESSES**

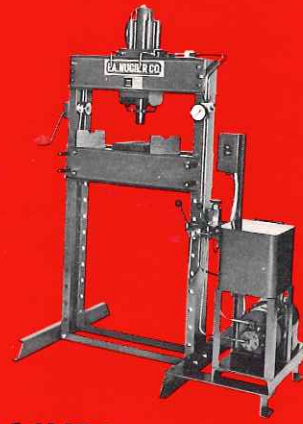
Nugier's self-contained air-hydraulic unit makes the operation of hydraulic presses easy and economical. All air-hydraulic presses are furnished with both hand and foot operated control valve, which permits the operator to have both hands free for positioning the work. The air regulator, standard equipment on Nugier air-hydraulic presses, accurately controls the speed and pressure of the pump by turning one control handle. Air can be balanced to hold cylinder pressure indefinitely. The Nugier blow down ram feature permits rapid ram advance to the work using line pressure. This process saves time, conserves air, and increases pump life since the pump is not operated. Nugier's highly efficient air-hydraulic pump utilizes a double acting air motor to drive hydraulic plunger pumps. When one side of the pump is pumping, the other side is taking fluid for its pumping stroke. This outstanding Nugier feature virtually eliminates ram pulsation and provides a continuous flow of oil to the cylinder. Since each side does only half the work, pump life is doubled. In addition, the pressing speed is approximately twice that of competitive air presses. All moving parts, as well as hydraulic check valves are easily serviced without removing any lines. All Nugier air-hydraulic presses come standard with water separator and filter, self-compensating pressure regulator, and air lubricator. The Nugier air-hydraulic pump is fully patented.



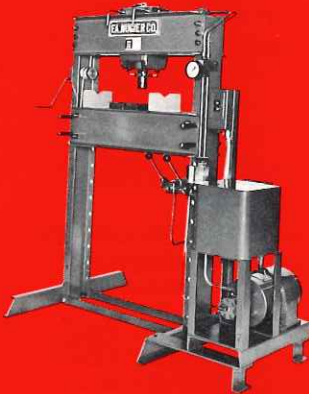
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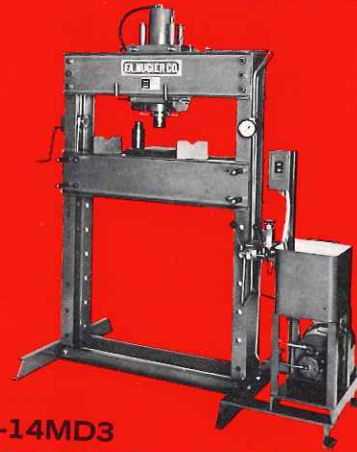
MODEL H25-7MD3



MODEL H40-14MD3



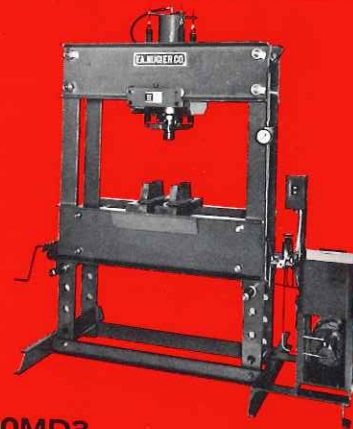
MODEL H50-7MD3



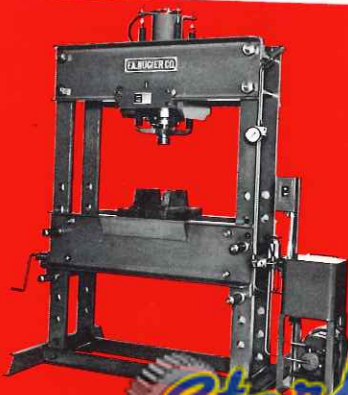
MODEL H60-14MD3



MODEL H80-14MD3



MODEL H100MD3



MODEL H150MD3



MODEL H200MD3

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# NUGIER Motor Driven Hydraulic Presses

**PUMP AND MOTOR** Nugier uses 50% larger motors as standard on all "H" frame presses than most competitors. These 3 horsepower units (10 horsepower available) are direct coupled pump flange motors, assuring machine tool quality construction, perfect pump-to-motor concentricity, and resultant maximum pump and motor life. Nugier motors have a 1.15 service duty rating, providing high production service at maximum capacity. Rapid ram advance and return is available.

**MOVABLE CYLINDER** All Nugier presses have movable cylinders from left to right (except the 25 ton). Note the cylinder and pump are separated on Nugier presses, giving more side movement of the ram since the cylinder does not house the pump and motor. Full rated capacity is available across the width of the headrails. Quick acting 90° locking cams are used to lock cylinder movement on 40, 50, 60, and 80 ton presses. Either 7" or 14" ram travel is available. Nugier presses feature rectangular cylinder flanges which afford even distribution of cylinder load to frame.

**CONVENIENT CONTROLS** Nugier controls are convenient for operation because the operator can stand back and easily observe the pressing operation. The two control handles are front mounted assuring convenient operation even when workpiece extends out front of the press. A large gauge is mounted with pump controls, providing easy reading and isolating gauge from mechanical shock (extended gauge life).

**ADJUSTABLE PRESSURE VALVE** All Nugier motor driven presses are equipped with an adjustable relief valve which allows the operator to set the maximum pressure of the press between zero and capacity. An internal relief valve, installed at the Nugier factory, prevents over-loading.

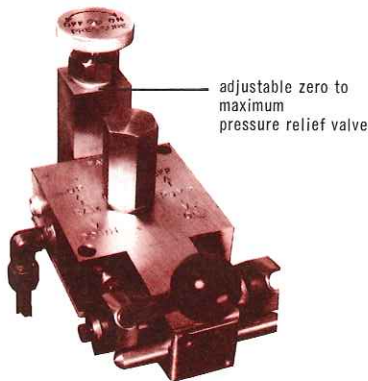
**QUALITY HYDRAULICS** All Nugier motor driven presses utilize high quality constant flow, radial piston pumps. All parts are hardened and ground, and no packing is used. All cylinders are honed to approximately a 15 micro finish to assure maximum cup life, and to enable the press to hold pressure for long periods of time.

**ADJUSTABLE TABLE** Table is adjustable with self-locking table winch. Note that the winch is mounted on outside of frame, eliminating possibility of obstructing full inside width of machine.

**SAFETY FEATURES** All Nugier presses are equipped with safety devices to prevent over-extension of the ram, and over-capacity of the press. A maximum capacity relief valve is set at the factory to prevent more than 110% of the capacity of the press. Nugier incorporates a ram travel limit valve to prevent over-extension of the ram, and damage to packaging and springs.

**FINISHED CONSTRUCTION** All Nugier presses have channel ends and corners cut and ground for safety and appearance. Cylinders are fully machined with ends radiused for quality appearance.

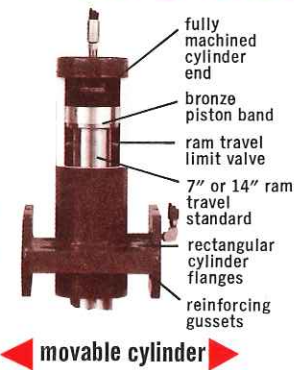
**ALL NUGIER PRESSES ARE SHIPPED  
SET UP AND READY TO GO**



adjustable zero to maximum pressure relief valve



control valves



fully machined cylinder end  
bronze piston band  
ram travel limit valve  
7" or 14" ram travel standard  
rectangular cylinder flanges  
reinforcing gussets

← movable cylinder →

3 hp or 10 hp motor standard  
high pressure piston pump

### RAM SPEEDS — INCHES PER MINUTE OF RAM TRAVEL

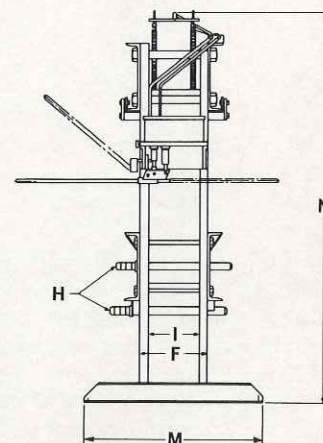
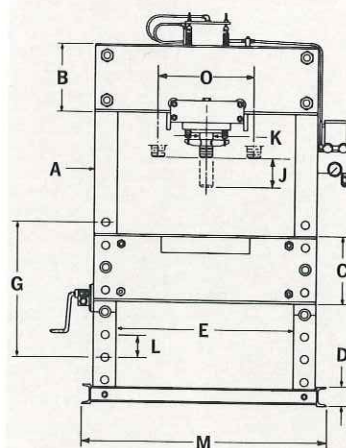
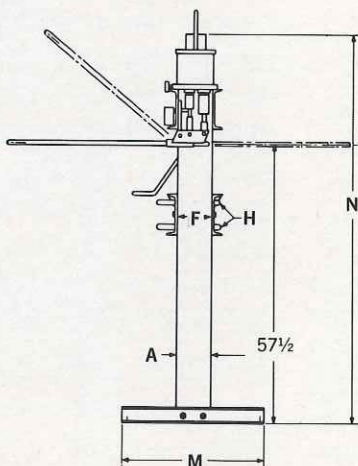
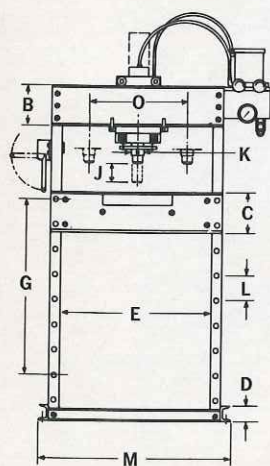
Power Plants	Size of Presses — Tons							
	25	40	50	60	80	100	150	200
<b>MD3 3 Horsepower</b>								
No Load	39.0"	24.0"	24.0"	12"	12"	7.5"	5.5"	4.2"
Half Capacity	30"	18.5"	17.0"	9.5"	9.0"	6.4"	4.5"	3.5"
Full Capacity	24"	14.5"	13.3"	8.2"	7.2"	5.3"	3.7"	2.8"
<b>MD3 HVP (high volume pump)</b>								
Advance Speed	225"	147"	147"	72"	72"	45"	33"	25"
<b>MD3 HVPR (high volume pump advance and return)</b>								
Return speed	550"	300"	300"	100"	100"	57"	40"	29"
<b>MD10 10 Horsepower</b>								
No Load	93.6"	57.0"	57.0"	28.2"	28.2"	19.6"	14.4"	11.0"
Half Capacity	74.2"	45.0"	41.0"	23.6"	22.4"	15.9"	11.4"	8.8"
Full Capacity	65.5"	41.0"	37.0"	21.2"	20.1"	14.3"	10.2"	8.0"
<b>MD10 HVP (high volume pump)</b>								
Advance Speed	288"	177"	177"	87"	87"	60"	45"	34"
<b>MD10 HVPR (high volume pump advance and return)</b>								
Return speed	550"	300"	300"			57"	40"	29"



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# NUGIER **MOTOR DRIVEN** HYDRAULIC PRESSES

DESCRIPTION	MODEL H25	MODEL H40	MODEL H50	MODEL H60	MODEL H80	MODEL H100	MODEL H150	MODEL H200	DRAWING REFERENCE
Capacity in tons	25	40	50	60	80	100	150	200	
Frame uprights	6" channel	7" channel	7" channel	8" channel	8" channel	1½"X5" Rectangle	2"X5" Rectangle	2"X6" Rectangle	A
Head, bed rails	6" channel	8" channel	9" channel	10" channel	12" channel	15" channel	15" channel	18" channel	B & C
Base members	3"X2" angle	3"X2" angle	3"X2" angle	4" channel	4" channel	5" channel	5" channel	5" channel	D
Inside width	30"	30¼"	34"	40"	48"	48"	48"	48"	E
Width between table rails	7½"	7" (9" - \$30.00 extra)	7" (9" - \$30.00 extra)	8" (10" - \$30.00 extra)	8" (10" - \$30.00 extra)	15"	16"	18"	F
Table travel	36"	36"	36"	36"	32"	30"	36"	36"	G
Max. vertical clearance	40"	43"	41"	40"	40"	36½"	36"	41½"	
Bed support pins (4142HT alloy)	1" dia. (2)	7/8" dia. (4)	7/8" dia. (4)	1" dia. (4)	1" dia. (6)	2" dia. (2)	2" dia. (4)	2" dia. (4)	H
Inside uprights	—	—	—	—	—	12"	12"	14"	I
Ram travel	7"	7" or 14"	7" or 14"	7" or 14"	7" or 14"	14"	14"	14"	J
Ram diameter	2¼" dia.	2¾" dia.	2¾" dia.	3¼" dia.	3¼" dia.	3¼" dia.	3½" dia.	3¾" dia.	K
Cylinder bore	2¾" dia.	3½" dia.	3½" dia.	5" dia.	5" dia.	6" dia.	7" dia.	8" dia.	L
Table spacing increments	4"	4"	4"	6"	4"	6"	6"	6"	
Floor space	39"X30"	38"X30"	42"X30"	50"X39"	58"X39"	63"X48"	63"X48"	64"X48"	M
Overall height— 7" ram travel	74"	72"	75"	76"	80"	—	—	—	
14" ram travel	—	82"	85"	86"	87"	104"	104"	104"	N
Left to right cylinder movement	none	21"	24"	26"	34"	31"	30"	26"	O
Cylinder material	cold Drawn Mech. Tube (all sizes)								
Furnished with press	two flat parallels and two "V" blocks				2 flat parallels, 2 "V" blocks and 2 ram noses		Parallels must be ordered separately		
Shipping weight — 3 hp Approx.	740#	820#	850#	1345#	1403#	2858#	3288#	4118#	
10 hp	955#	1030#	1065#	1560#	1618#	3073#	3503#	4333#	



**MODELS  
H25, H40,  
H50, H60,  
H80**

**MODELS  
H100, H150,  
H200**



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## **MOTOR DRIVEN** NUGIER HYDRAULIC PRESSES

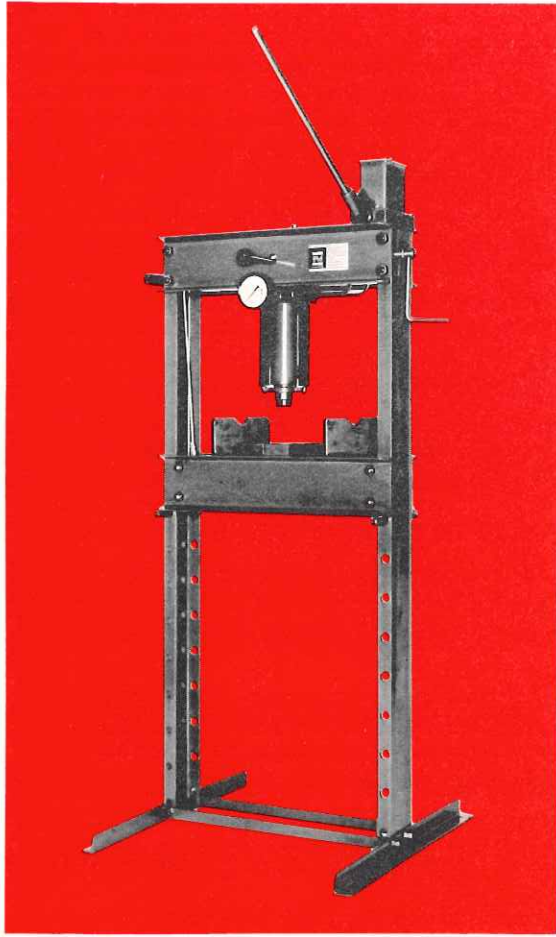
The Nugier motor driven power plants provide the operator with an efficient, quiet, and dependable source of hydraulic fluid by simply connecting the press to an electrical outlet. All units include these Nugier features as standard equipment: electric motor, motor switchbox, heaters, conduit, pump, reservoir, filter, control and relief valves. Nugier presses have two handles to control the press operation. One control directs the fluid to the cylinder ram or bypasses it to the reservoir. This permits the ram to be brought down in small increments and hold any position or pressure while the pump runs freely, discharging to the reservoir. The second control releases the ram for return to the desired retracted position. These two handles give the operator any combination of control desired.

The pump used by Nugier is a Racine-Seco, constant flow, continuous duty type, 7-piston radial pump. All pump parts are hardened and ground, no packing is used. The pump is mounted directly on the end of the motor housing to insure perfect concentricity with no moving parts exposed. The Nugier powerplant has an internal relief valve which is preset at the Nugier factory. An external relief valve is standard which allows the operator to set maximum pressure any time during the operation merely by turning the adjustable knob. The internal relief valve then acts as a safety valve to prevent over-loading.

All Nugier power plants are available with two pumps and a double ended motor. One pump is a vane type, high volume, low pressure pump which brings the ram down to the work at a high rate of speed. When the ram contacts the work, the vane pump is taken out of the circuit and the high pressure piston pump takes the press up to its full capacity. This feature is recommended where long ram travel is needed. Slight additional cost



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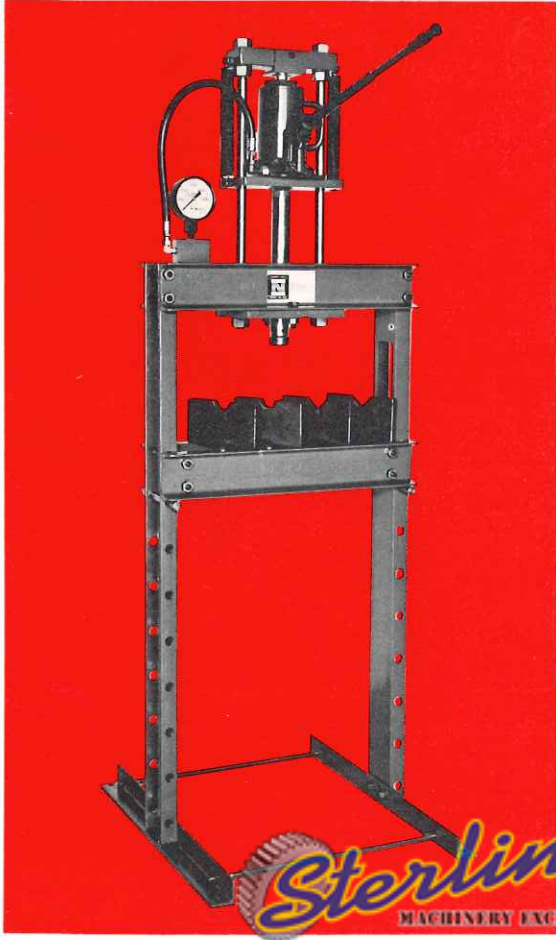


## 20 Ton Maintenance Press MODEL H20-6

Here is a small buy sturdy 'workhorse' type of hydraulic press. With typical Nugier heavy-duty construction and built-in quality, this 20 ton press answers the long-awaited need of garages, service stations, tire dealers, brake shops as well as industrial shops for an inexpensive, maintenance-free press able to handle lighter but rougher, more abusive press problems. Designed specifically for versatility of operation, it takes the place of the standard type automotive hydraulic jack press that is normally very slow with a short life expectancy. In addition to the larger capacity of 20 tons as opposed to most 12 ton jack presses, it is twice as fast and has a safety valve for maximum capacity. This press is also equipped with a ram travel limit valve which prevents over-extension of ram. Pressure gauge, table winch, two table parallels and two "V" blocks are included.

### SPECIFICATIONS H20-6

Capacity	20 tons
Ram travel	6"
Handle strokes per inch of ram travel	20
Width between uprights	24"
Width between table rails	5"
Maximum ram to table	37"
Ram diameter	2 1/4"
Ram material	Meehanite
Cylinder bore	2 1/4"
Cylinder material	SAE 1015
Floor space	31" X 30"
Shipping weight	.265#



## Jack Presses MODEL S2J-JGM

These presses are designed for automotive repairmen and general machine shop work. Clearance, travel and general arrangements are all engineered for the repairman's needs. Pressure is developed by using any popular make 12 ton hydraulic hand jack. The jack is not permanently attached, so it can be used for other purposes. Two heavy-duty springs return the jack to the retracted position when the valve is opened. The force is transmitted to the work through a 1 3/4" ram, guided by a 4" long bushing. The ram is equipped with a hardened removable ram nose. The rigidity obtained by this construction assures perfect alignment. The size and weight of these presses permit easy movement around the shop. Openings in the side of the frame make it possible to straighten shafts or long pieces. Two pairs of table parallels are furnished for convenience of set-up; two with "V" cutouts, two with "U" cutouts. Available with or without jack.

### SPECIFICATIONS S2J

Capacity	12 tons
Width between uprights	20 3/4"
Maximum ram to table	36 1/2"
Floor space	24" X 27"
Shipping weight	200#

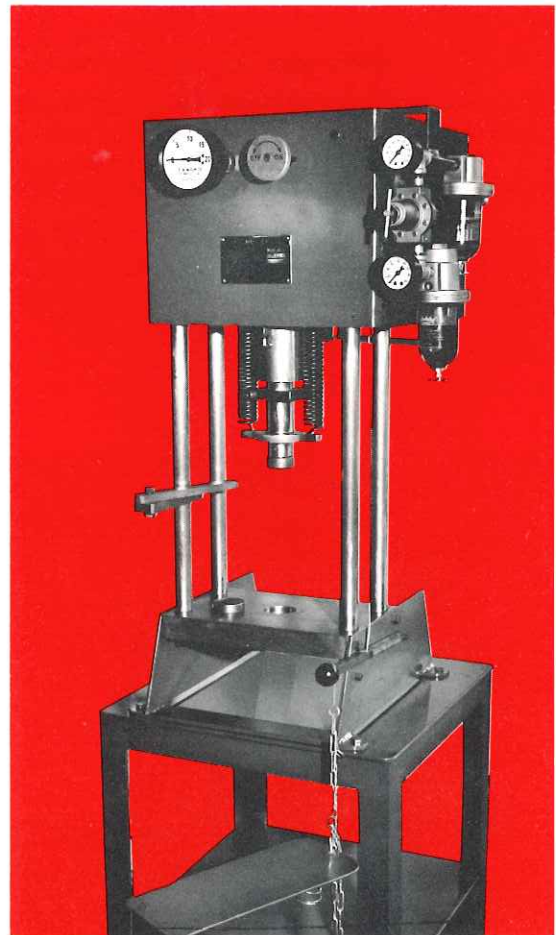
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## 20 Ton Air-Hydraulic Utility Bench Press MODEL U20-8

This self-contained, air-hydraulic press was developed for a wide variety of odd jobs, for high speed production line or mass assembly work. The double-acting, air-hydraulic pump delivers a continuous flow of oil with virtually no pulsation on normal shop air pressure. This press has a 36" per minute ram travel with an 8" stroke. The air control valve provides precise control for fast advance or for slow infinite movements on intricate pressing operations. The ram is precision ground chrome-moly and has a removable nose so tooling can be located in the ram. Valves are provided to automatically prevent overloading and exceeding the ram travel limit. A counterbored hole in the table allows pressed out parts to drop through or a plug is supplied to make the table flat. It can be hand or foot controlled. Available with a stand.

### SPECIFICATIONS U20-8

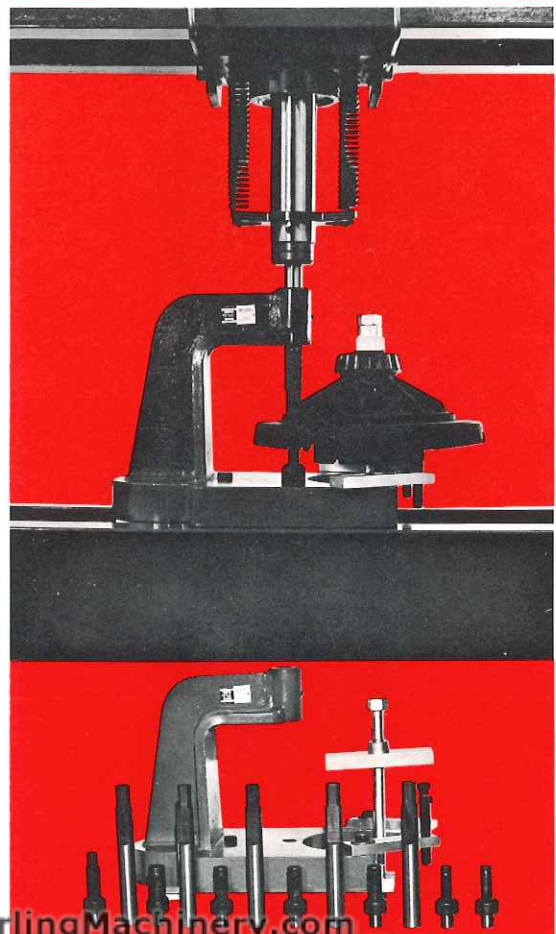
Capacity .....	20 tons
Ram travel speed .....	36" per minute
Width between uprights .....	10"
Minimum opening .....	4" or 7" (specify)
Maximum opening .....	12" or 15" (specify)
Required air pressure (at 20 tons) .....	120 psi air
Operating oil pressure (at 20 tons) .....	10,060 psi oil
Ram travel .....	8"
Ram diameter .....	1 3/4"
Ram material .....	4142 HT chrome-moly
Cylinder bore .....	2 1/4"
Cylinder material .....	SAE 1015 cold drawn mechanical tube
Pump .....	Nugier air driven, pilot operated, double acting, plunger type, hydraulic pump (10,000 psi, 3/4 gpm)
Frame uprights .....	(4) 1 1/8" 1018 cold finished steel
Base plate .....	1 1/2" x 8" x 12 3/4" 1018 cold finished steel
Shipping weight .....	285#



## 200HD Heavy Duty Ring Gear Riveting Fixture

The heavy duty differential ring gear riveting fixture is designed for cold heading rivets, the correct and approved method for installing new ring gears to differential cases.

The hardened and ground punch is accurately guided through the rigid fixture in correct alignment with the anvil on which the rivet rests so that force is applied directly on the end of the rivet. This keeps the rivet straight while the force applied on the punch causes the rivet to expand in diameter until the hole in the ring gear and case is completely filled with metal, after which additional force forms the rivet head and draws the gear and case tightly together. The massive all steel frame, which has 5 3/4" clearance between the center of the anvil and the upright portion of the over arm, and from the top of the anvil to the bottom of the over arm, is sufficiently large to accommodate the large ring gears. Maximum vertical height inside of fixture is 9". Clearance from tool center to inside of throat 5 3/4". Five special heat treated alloy steel punches and seven anvils are included as standard equipment, handling round and flat head rivets, sizes 5/16", 3/8", 7/16", 1/2", 9/16", 5/8" and 3/4". The fixture is equipped with a spring loaded ball which holds punch away from work while putting rivet on anvil. Two adjustable leveling pads supporting the ring gear and case while riveting clamp holds ring gear flat during the operation of rivet forming. Shipping weight 210 lbs.



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## Custom Designed Hydraulic Presses and Controls to 1000 Ton Capacity

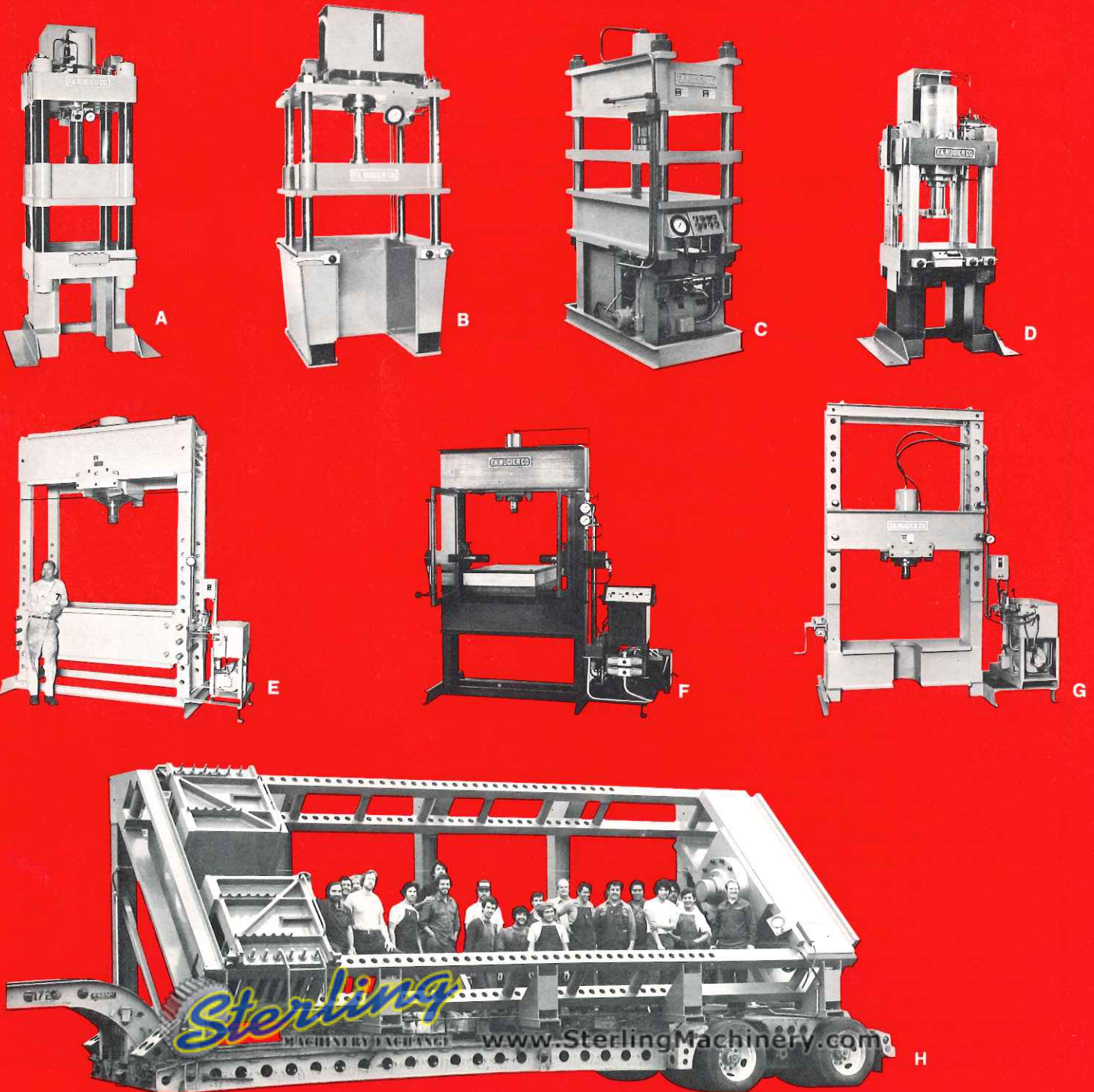
Nugier Company not only manufactures the finest line of standard "H" frame presses available, but also takes pride in building completely custom presses and forming machines.

IF you would like additional stroke, greater width between uprights, more maximum opening from ram to table, double acting cylinders, or anything that is not standard, please ask for price.

Most alterations are at a nominal cost, and quickly paid for by increased production savings.

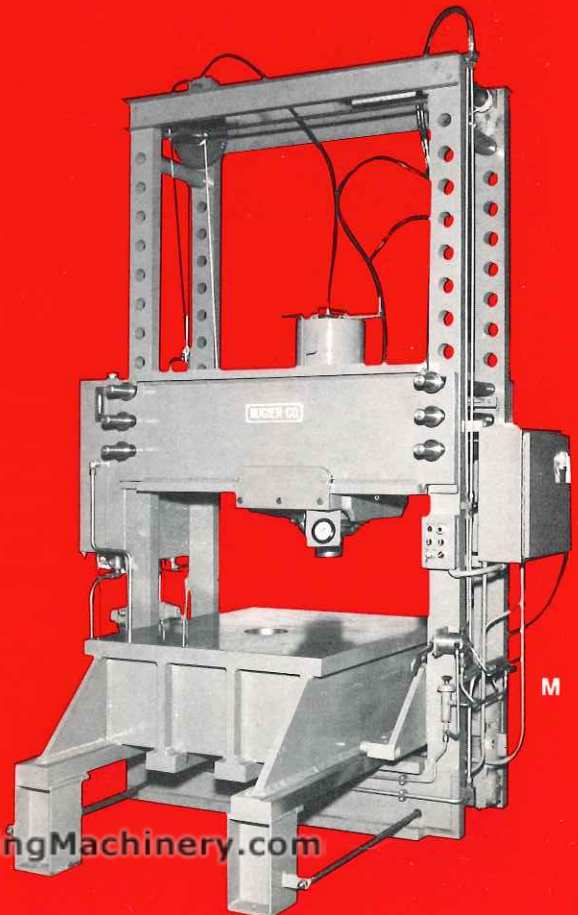
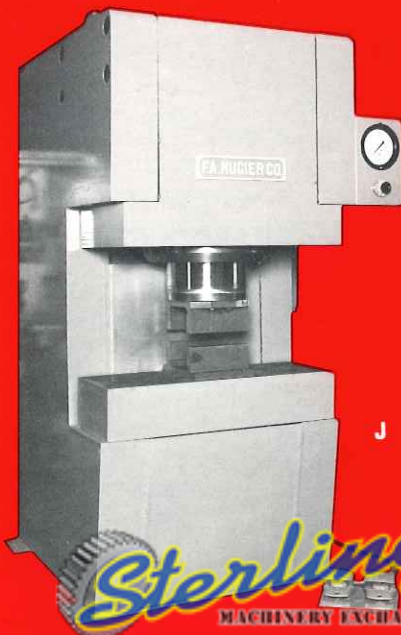
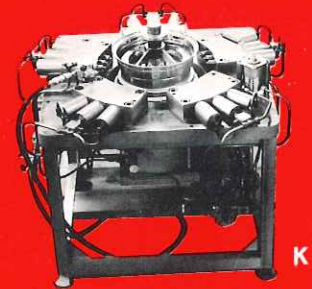
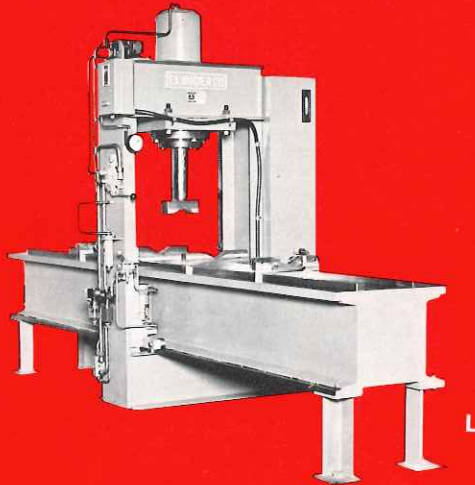
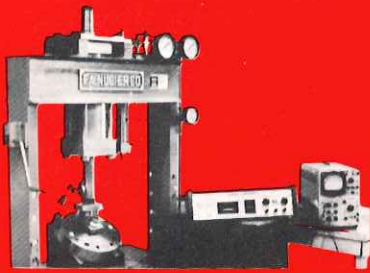
Some of the more popular alterations to "H" frame presses are: power return cylinders, high ram speeds, "U" tables, automatic controls, spring-loaded test centers, longer ram stroke, greater width between uprights, more maximum opening from ram to lowered table, fabricated platens attached to the ram and table, and many many more.

Nugier Company also manufactures: horizontal presses, solid tire presses, guided platen presses, "C" frame presses, rolling frame presses, automatic controls of all types, and highly specialized forming machines.



- A 200 ton guided platen press for forming
- B 75 ton die try-out press with "U" table
- C 100 ton steel rule die cutting press
- D 300 ton non-guided platen press for swaging
- E 400 ton "H" frame for maintenance
- F 80 ton two axis press for straightening
- G 150 ton "H" frame with "U" table and movable headrails

- H 1000 ton horizontal inclined forcing press
- I Bi-directional fatigue testing machine for aircraft engine mounts
- J 800 ton "C" frame press for wire rope swaging
- K Automatic automotive wheel dimpling press
- L 80 ton rolling gantry straightening press
- M 300 ton rolling frame straightening press



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## Over 35 Years of Building Fine Quality Hydraulic Presses



### Yes . . . as you can see, Nugier Co. has presses!

Hundreds of presses from 12 to 200 ton, Standard H Frames, ready for immediate shipment.

Behind the basic philosophy of "you get what you pay for," Nugier delivers a better quality product out front than its competitors. The cost savings to the end user will be substantial over the life of the press. The primary reason is Nugier Presses don't break down.

Testimony to that fact is Nugier's record of less than 1% of their annual sales is attributed to replacement parts and service.

Ask your nearest sales representative or distributor what separates Nugier from other press lines.

**Step up to the quality press . . . step up to Nugier**



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