

DRAMET AMERICAN, INC.

Subsidiary of Olsen Manufacturing Co., Inc.

MODEL HCW-60XL — 61 TON POWDER COMPACTING PRESS (WITHDRAWAL TYPE)

The HCW-60XL is a completely self-contained, die set, hydraulicelectrical 61 ton capacity automatic compacting press. This press is ideally suited for the compaction of powdered metals, ceramics, cemented carbides, nuclear fuels, ferrites, carbon graphite, PTFE, plastics and explosives.

The extremely large tool area, with complete access from three sides, designed for multiple cavity tooling and exceptionally fast cycle rates, makes the HCW-60XL an excellent high production press.

A few of the STANDARD operating features and advantages of the Hydramet Model HCW-60XL are:

Operator Protective Guarding

- Withdrawal Action for Both Pressing and Ejection with Eject Only, Friction or Forced Float Action Selector Switch Controlled
- Fast Cycle Rates (Over 30 per min.)

• Independent Ram Speed Controls:

3 Speed Upper Ram with Fast Approach, Adjustable Press and Fast Retract

3 Speed Die with Individually Adjustable Press, Eject and Fill Speeds

Pressure and Temperature Compensated Upper Ram Press and Die Press Controls

All Electrical and Hydraulic Adjustments Calibrated for Fast Set-up to Predetermined Program

 Self Contained, 4 post, Removable Die Set Containing Core Rod Platen, Booted Guide Posts and with Guide Posts Supported in Crown and Bolster Plates

Large (14 inch) Die Bore

4 post, Pre-stressed Strain Rod Frame Construction

Full Range Tonnage Adjustment with Individual Upper Ram and Die Resistance Adjustments

65% Ejection Force: 124% Die Support Force

- Upper Ram Retraction Immediate or Delayed for Top Punch Hold-down.
- Upper Ram Weight Control (Adjustable) for CONTROLLED Top Punch Hold-down

Press to Density or Size

- Feed Shoe Hydraulic Jogging with Adjustable Jog Counter
- Cylinder actuated Feed Shoe with Individual Speed Adjustments Forward/Return and Adjustable Stroke Stops
- Hand Wheel Fill and Top Ram Press Position Adjustments • Full Automatic, Semi-Automatic or Manual Operation

Manual Upper Ram Valve for Fine Set-up Control

- Adjustable Cycle Start Delay, Pre-Press Dwell, Press Dwell and Eject Delay
- 5 inch Adjustable Fill Capacity (see Optional Fills)

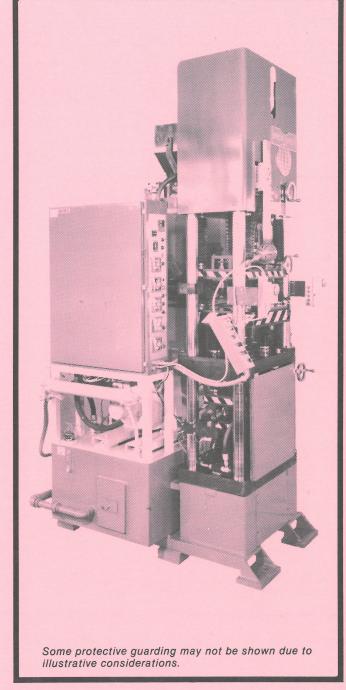
Automatic Decompression

Linear Programmer with Indicating Lights

10 Micron Oil Filtration System

Automatic Hydraulic Oil Temperature Control

One Year Warranty Policy



OPTIONAL FEATURES INCLUDE:

- Auxiliary Upper and Lower Cylinders with Adjustable Speed and Force Controls Including Selector Switch Programming
- Additional Fill Depths of 7", 9" and 12" all Fully Adjustable

Handwheel Eject Stop Adjustment

- Die Entry Adjustable Stops with Single Hand Wheel Adjustment
- Over and Under Fill
- Limit Switch Actuated Die Press Position

Feed Shoe Air Vibrator

- Pit Installation (Frame Area Only)
- Hydraulic Punch Compensators for Multiple Cavity Tooling
- Low Tonnage Control. . . plus Many Other Features

VISIT OUR PLANT FOR A DEMONSTRATION.

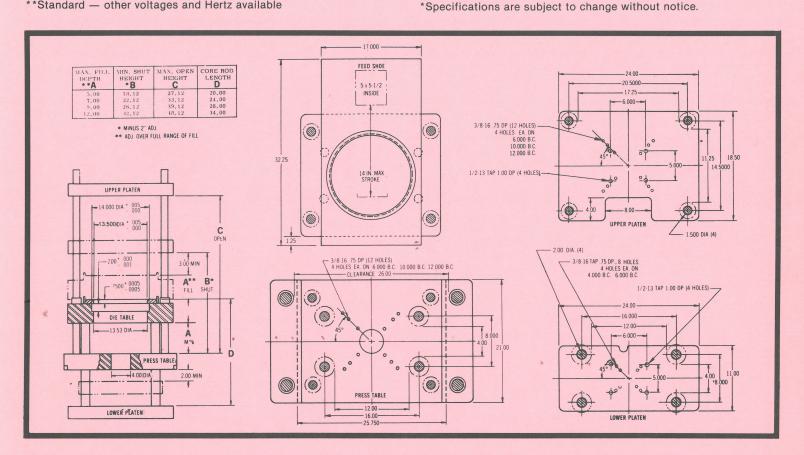
4605 Delemere Blvd., Royal Oak, Michigan 48073 P.O. Box 40, Royal Oak, Michigan 48068 • Phone (313) 549-7600 • Fax (313) 549-1199

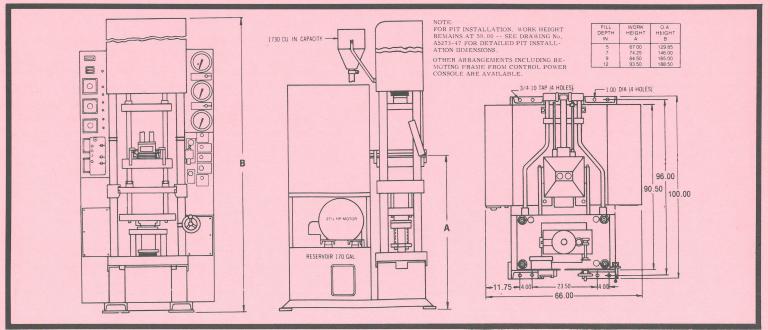
SP	ECI	FIC	ATI	ONS
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Pressing force upper ram (max — adj)61 tons
Die eject (withdrawal) force in % of press force 65%
Die support force (adj.) in % of press force124%
Minimum pressing force
*Powder fill depth (max — fully adj.)
*Stroke of upper ram (max — 2" adj.)
Maximum upper ram speed in./sec.:
Down (unloaded)
Down (pressing — adj.) 0.9
Up (clear)
Maximum die ram speed in./sec.:
Down (unloaded — adj.)
Down (max ejection force — adj.) 1.4
Up (filling — adj.) 6.1
* Chandard minimum athers quallable

Standard minimum — others available

Electrical requirements:**					
Pump motor @ 1800 RPM		27	71/2 HP		
Power voltage					
Control voltage					
Heat exchanger max. water at 75°F ambient					
and 65 °F water inlet temperature		2.	5 GPM		
Reservoir capacity — U.S. gallons					
Weight (approx. with reservoir empty)					
	Min Tons				
Maximum cycles/min. Minimum ram stroke	Min Tons	Mid Tons	Max Tons		
Maximum cycles/min. Minimum ram stroke 1/4'' Fill depth 1'' Fill depth	Min Tons 84	Mid Tons 56	Max Tons 42		
Maximum cycles/min. Minimum ram stroke 1/4'' Fill depth 1'' Fill depth	Min Tons 84 38	Mid Tons 56 32	Max Tons 42 26		
Maximum cycles/min. Minimum ram stroke ¼'' Fill depth 1'' Fill depth 3'' Fill depth	84 38 33	Mid Tons 56 32 29	Max Tons 42 26 23		
Maximum cycles/min. Minimum ram stroke 1/4'' Fill depth 1'' Fill depth	Min Tons 84 38 33 23 16 nium grade I	Mid Tons 56 32 29 21 15 nydraulic	Max Tons 42 26 23 18		





^{**}Standard — other voltages and Hertz available