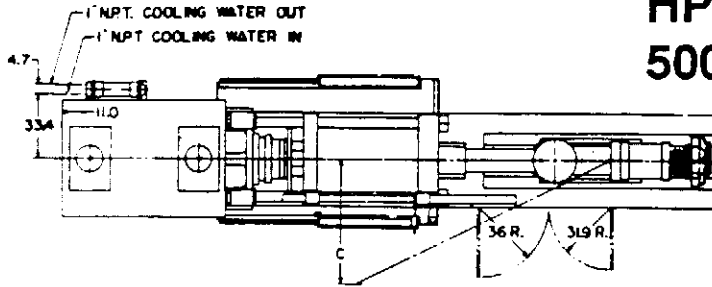
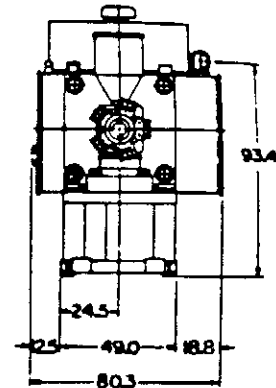
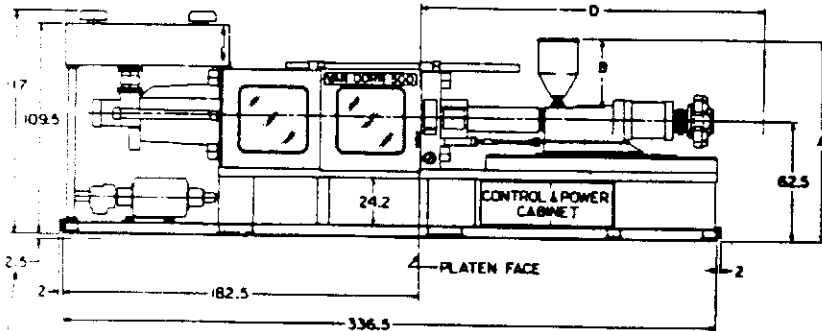


# VAN DORN®

## HP SERIES-HYDRAULIC CLAMP 500H-RS-30/48/60F



MACHINE	STD. BARREL		VENTED BARREL	
	A	B	C	D
500H-RS 30F	102.3	33.5	60	157
500H-RS 48F	102.3	33.5	62	175
500H-RS 60F	104.3	35.5	64	177



OPTIONAL LEVELING MOUNTS

	500RS 30F	500-RS 48F	500-RS 60F
<b>INJECTION UNIT</b>			
Inject Capacity-Calculated (cu. in.)	59.2	89.0	111.5
Inject Capacity-G.P. Polystyrene (oz.)*	30	48	60
Recovery Rate-G.P. Polystyrene (oz./sec.)+	2.94	3.15	2.91
Injection Pressure-Max. (p.s.i.)	20,000	20,000	20,000
Inject Rate-at 10,000 p.s.i. (cu.in./sec.)	41.5	41.7	43.8
Inject Stroke (in.)	11.50	12.63	14.31
Screw Diameter (in.)	2.56	2.95	3.15
Screw Diameter (mm)	65	75	80
Barrel L/D Ratio	20:1	20:1	20:1
Screw Speed Range (R.P.M.)	30-320	30-250	30-199
Back Press Adjust (screw rotating) (p.s.i.)	75-300	75-300	75-300
<b>CLAMPING UNIT</b>			
Clamp Force (tons)	500	500	500
Clamp Opening Force (tons)	23	23	23
Clamp Stroke-Max. (in.)	40	40	40
Open Daylight-Max. Ejector Box (and spacer) removed (in.)	68++	68++	68++
Mold Thickness-Min. Ejector Box (and spacer) installed (in.)	12++	12++	12++
Ram Spacer Thickness (in.)	4	4	4
Ejector Box Thickness (in.)	12	12	12
Platen Size-Std-HxV (in.)	47X47	47X47	47X47
Platen Size-Opt-HxV (in.)	51X47	51X47	51X47
Dist. Between Rods-Std-HxV (in.)	32.5X32.5	32.5X32.5	32.5X32.5
Dist. Between Rods-Opt-HxV (in.)	36.5X32.5	36.5X32.5	36.5X32.5
Tie Rod Diameter (in.)	5.5	5.5	5.5
Clamp Speeds: Closing-Fast (in./sec.)	30	30	30
Opening-Fast (in./sec.)	28	28	28
Ejector Force (tons)	12.5	12.5	12.5
Ejector Stroke (in.)	6	6	6
Ejector Speed: (fwd/retract) (in./sec.)	10.8/14.5	10.8/14.5	10.8/14.5

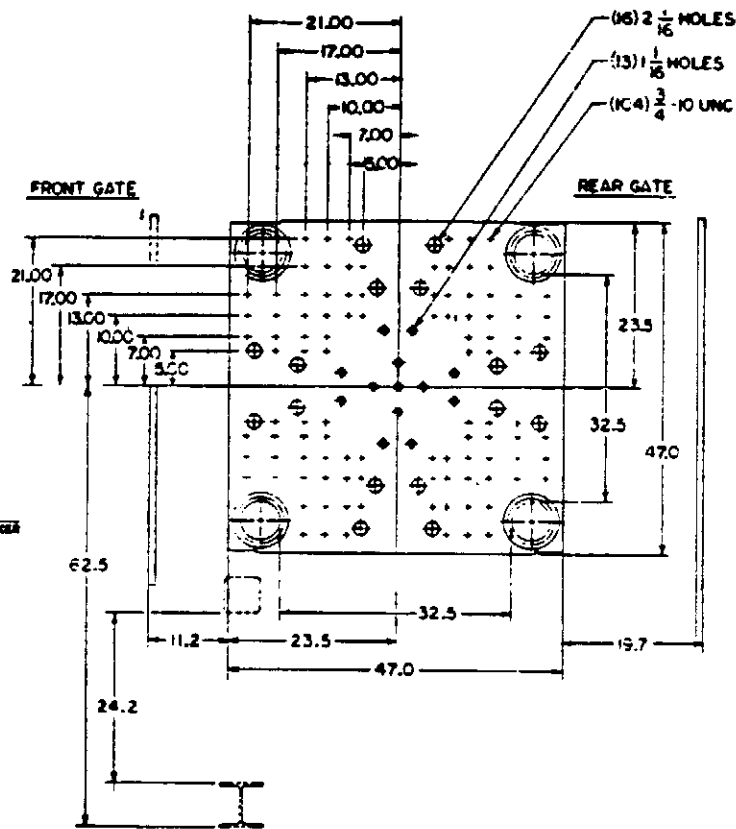
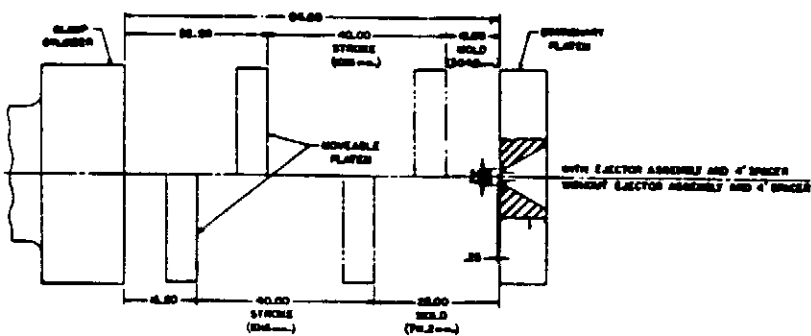
	500-RS 30F	500RS 48F	500-RS 60F
<b>POWER</b>			
Pump Motor (Motors/HP)	75	75	75
Barrel Heating Wattage (KW)	20	29.8	28.3
Number of Heat Control Zones	4	4	4
<b>CONTROL</b>			
Multi-Microprocessor W/Display Screen	Yes	Yes	Yes
Closed Loop Process Control	Yes	Yes	Yes
Control Voltage (V)	110	110	110
Control Voltage (Solenoids) (Vdc)	24	24	24
<b>HYDRAULIC</b>			
Variable Volume Pump Type	Piston	Piston	Piston
Screw Motor Type	Piston	Piston	Piston
<b>GENERAL SPECIFICATIONS</b>			
System Pressure (Inject/Clamp) (p.s.i.)	2000/2500	2000/2500	2000/2500
Comb. Pump Capacity (@ 100 p.s.i.)(G.P.M.)	121	121	121
Oil Capacity (Gal.)	420	420	420
Hopper Capacity (lb.)	145	145	225
Machine Weight (lb. approx.)	53,700	54,000	54,800
Machine Dimensions -Length (ft.)	28.3	29.8	30.0
-Width (ft.)	6.7	6.7	6.7
-Height (ft.)	9.8	9.8	9.8

\* Dependent upon mold, material and conditions.

+ Average value based on S.P.I. Test Procedures.

++ Extended tie bar spacing option reduces minimum mold thickness and maximum open daylight by 1/2".

Since continuous improvement is Van Dorn's policy, we reserve the right to change specifications, designs and performance data without prior notice or obligation.



MOVEABLE PLATEN

## STANDARD FEATURES

### Injection Unit

- In-line injection unit, non-rotating piston
- Radial piston screw drive motor
- Screw speed tachometer with digital set and display
- Cold screw startup protection
- Screw pullback before and/or after screw rotate
- Pivoting injection unit
- Swing-away hopper
- Bimetallic barrel

### Hydraulics

- Energy efficient variable volume pump system
- Proportional and cartridge valve hydraulics
- 24 V DC solenoids

### General

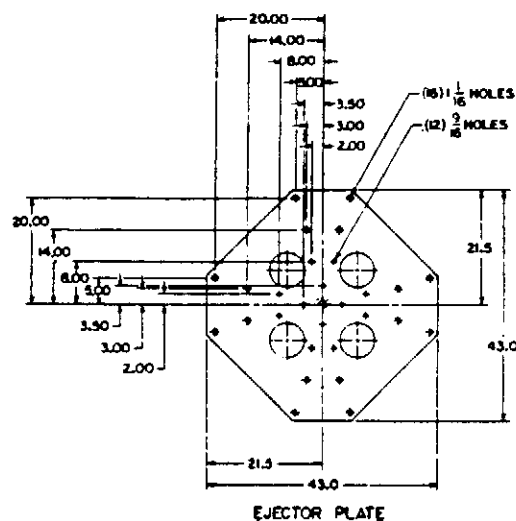
- Closed-loop oil temperature control
- High oil temperature and low oil level alarms
- Selectable oil preheat sequence
- Full-time oil filtration with alarm
- Drip pans under manifolds

### Clamp Unit

- Single acting main ram with twin outboard cylinders
- Self-lubricating bushings requiring only periodic lubrication
- Adjustable moving platen supports on hardened steel ways
- Full SPI knockout pattern
- Multiple eject sequences
- Eject forward hold
- Ratchet type stop bar

### Control

- Multi-microprocessor system
- Closed-loop process control
- PID temperature control
- Self-diagnostics with automatic troubleshooting
- Precision position sensing for clamp, inject, and eject
- Remote setup of clamp, inject and screw rotate speeds & pressures
- Remote setup of all positions



See your sales representative for available options.

# VAN DORN®

Committed to the future of plastics  
 VAN DORN PLASTIC MACHINERY CO., A Division of Van Dorn Company  
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