

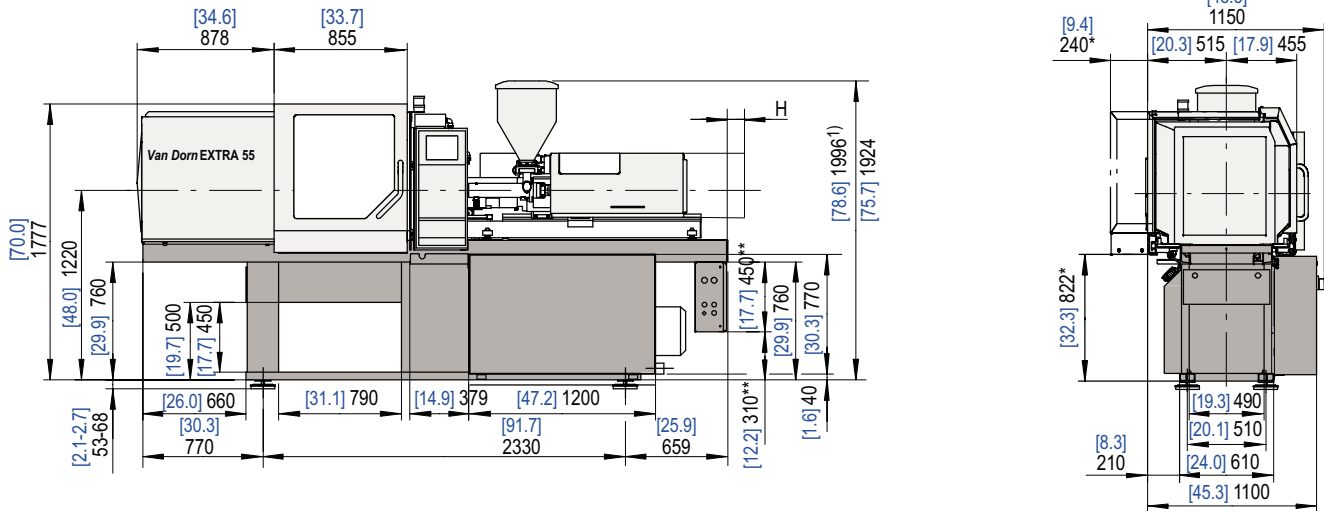
Technical Data Van Dorn EXTRA 55

Van Dorn Demag		Van Dorn EXTRA 55					
Model description		Van Dorn EXTRA 55-200			Van Dorn EXTRA 55-310		
International size description		500-200			500-310		
Clamping unit		55					
Clamping force	[US Tons] [kN]	[56.2] 500					
Locking force	[USTons] [kN]	[56.2] 500					
Max. mold opening stroke	[in] [mm]	[15.7] 400					
Min. mold height	[in] [mm]	[8.3/6.3/5.3] 210/160/135 ¹⁾					
Max. mold height	[in] [mm]	-					
Max. daylight	[in] [mm]	[64.0] 610					
Mold platen (h x v)	[in] [mm]	[18.9x18.9] 480 x 480					
Distance between tie bars (h x v)	[in] [mm]	[14.0x14.0] 355 x 355					
Ejection stroke	[in] [mm]	[4.9] 125					
Ejection force	[US Tons] [kN]	[4.6] 41					
Retraction force	[US Tons] [kN]	[1.7] 15					
Injection unit		200			310		
Screw diameter	[in] [mm]	[1.0] 25	[1.2] 30	[1.4] 35	[1.2] 30	[1.4] 35	[1.6] 40
L/D ratio		20	20	20	20	20	20
Injection pressure (up to 752°F)	[psi] [bar]	[189.7] 2752	[137.5] 1995	[101.0] 1466	[189.9] 2755	[139.5] 2024	[106.8] 1550
Cylinder head volume	[in ³] [cm ³]	[3.7] 61	[6.5] 106	[8.8] 144	[6.5] 106	[10.3] 168	[13.4] 220
Max. shot weight (PS, PE*)	[oz] [g]	[1.9] 55	[3.4] 95	[4.6] 130	[3.4] 95	[5.4] 152	[7.0] 198
Rate of injection							
> without accumulator	[in ³] [cm ³ /s]	[4.3] 70	[5.5] 90	[7.9] 130	[4.3] 70	[5.5] 90	[7.3] 120
> with accumulator	[in ³] [cm ³ /s]	-	-	-	-	-	-
Plasticizing rate (PS)							
> motor 1 (1740 psi)	[oz/s] [g/s]	[0.37] 10.5	[0.52] 14.7	[0.84] 23.8	[0.41] 11.5	[0.66] 18.6	[0.91] 25.7
> motor 2 (1740 psi)	[oz/s] [g/s]	[0.29] 8.2	[0.41] 11.5	[0.66] 18.6	[0.32] 9.2	[0.53] 14.9	[0.73] 20.6
Max. screw stroke	[in] [mm]	[4.9] 125	[5.9] 150	[5.9] 150	[5.9] 150	[6.9] 175	[6.9] 175
Max. distance of nozzle retraction	[in] [mm]		[7.9] 200			[9.8] 250	
Max. nozzle dipping depth (SVO)	[in] [mm]		[1.6] 40			[1.6] 40	
Nozzle sealing force	[US Tons] [kN]		[6.7] 60			[6.7] 60	
Number of heating zones		4	4	4	4	4	4
Hopper capacity	[gal] [L]		[9.2] 35			[9.2] 35	
General data		55-200			55-310		
Oil tank capacity	[gal] [L]	[35.6] 135			[35.6] 135		
Installed electrical rating							
> pump unit	[hp] [kW]	[14.7] 11.0			[14.7] 11.0		
> heating capacity of screw cylinder	[kW]	5.7	8.3	9.4	8.3	9.4	11.1
> total	[kW]	16.7	19.3	20.4	19.3	20.4	22.1
Dry cycles (EUROMAP 6)	[s-in] [s-mm]	2.73-248			2.73-248		
Net weight (without oil)	[lb] [kg]	[5333.3] 2400			[5522.2] 2485		
Machine dimensions (l x w x h)	[in] [m]	[149.2/45.3/78.3] 3.79x1.15x1.99			[149.2/45.3/178.3] 3.79x1.15x1.93		
Screw motor overhang (H) ²⁾	[in] [mm]	[0/0] 0/0	[0/0] 0/0	[0/0] 0/0	[0/0] 0/0	[0/0] 0/0	[0/4.3] 0/109

We reserve the right to make changes as a result of further technical advantages. Plasticizing rate depends on processing conditions and material employed.

- 1) max. opening stroke is constant for all mold heights
2) carriage forward/carriage back

Machine dimensions Van Dorn EXTRA 55



- 1) Injection unit 200
- * enlarged safety guard, applicable with sprue picker
- ** Dimensions for hot runner control
- Fig. => Injection unit 310

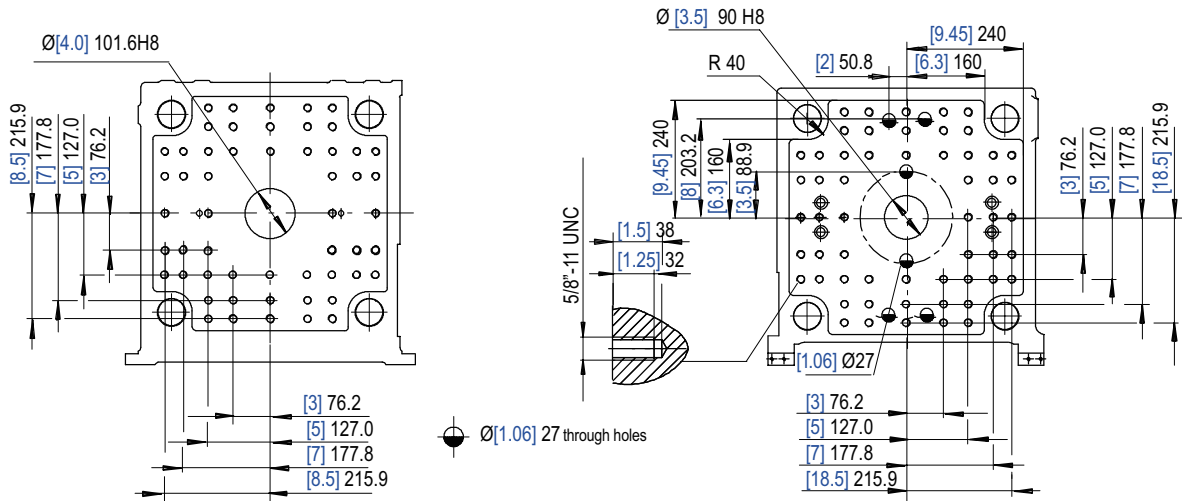
Platen dimensions Van Dorn EXTRA 55

Fixed platen

Moving platen

A - A

B - B



Hole pattern according SPI
 k = minimum permissible mold-Ø 7.9"/200 mm
 Max. permissible mold weight 882 lbs./400 kg
 max. 595 lbs./270 kg of it on the moving platen support bearings

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VAN DORN

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