

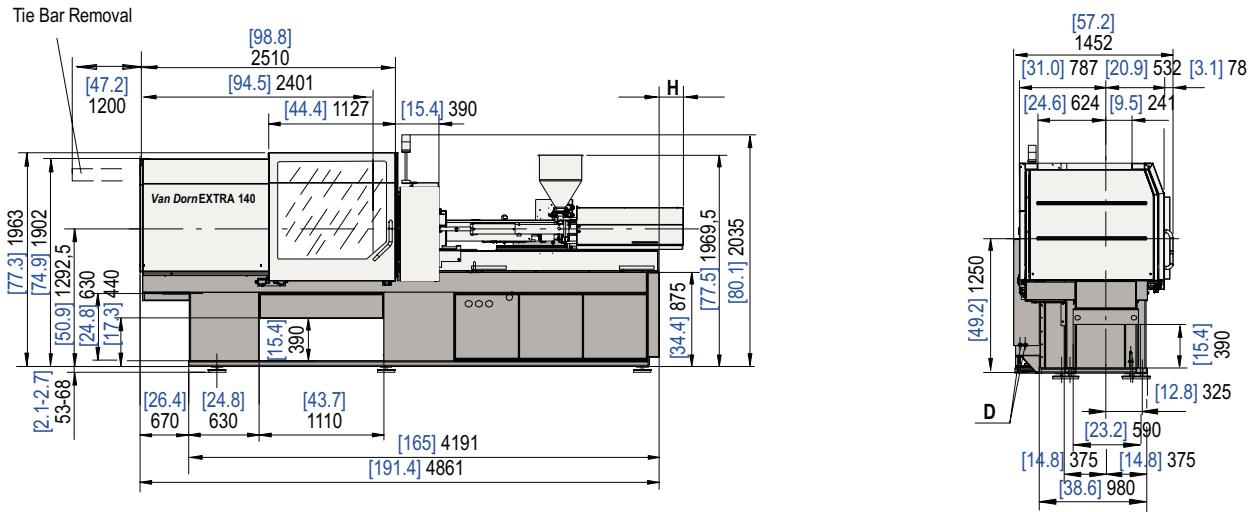
Technical Data Van Dorn EXTRA 140

Van Dorn Demag		Van Dorn EXTRA 140					
Model description		Van Dorn EXTRA 140-430			Van Dorn EXTRA 140-600		
International size description		1250-430			1250-600		
Clamping unit		140					
Clamping force	[US Tons] [kN]	[140.4] 1250					
Locking force	[USTons] [kN]	[154.5] 1375					
Max. mold opening stroke	[in] [mm]	[17.7] 450					
Min. mold height	[in] [mm]	[9.8] 250					
Max. mold height	[in] [mm]	[18.9/22.8] 480/580					
Max. daylight	[in] [mm]	[36.6/40.6] 930/1030					
Mold platen (h x v)	[in] [mm]	[27.8x27.6] 705 x 700					
Distance between tie bars (h x v)	[in] [mm]	[18.7x18.7] 475 x 475					
Ejection stroke	[in] [mm]	[5.5] 140					
Ejection force	[US Tons] [kN]	[6.6] 59					
Retraction force	[US Tons] [kN]	[3.3] 29					
Injection unit		430			600		
Screw diameter	[in] [mm]	[1.4] 35	[1.6] 40	[1.8] 45	[1.6] 40	[1.8] 45	[2.0] 50
L/D ratio		20	20	20	20	20	20
Injection pressure (up to 752°F)	[psi] [bar]	[181.9] 2640	[139.2] 2020	[110.3] 1600	[166.8] 2420	[131.6] 1910	[106.8] 1550
Cylinder head volume	[in ³] [cm ³]	[10.3] 168	[14.1] 231	[17.9] 293	[14.1] 231	[19.7] 323	[24.3] 399
Max. shot weight (PS, PE*)	[oz] [g]	[5.3] 149	[7.2] 205	[9.1] 259	[7.3] 208	[10.3] 291	[12.66] 359
Rate of injection							
> without accumulator	[in ³] [cm ³ /s]	[6.8] 112	[8.9] 146	[11.3] 185	[7.4] 122	[9.4] 154	[11.7] 191
> with accumulator	[in ³] [cm ³ /s]	-	-	-	-	-	-
Plastizising rate (PS)							
> motor 1 (1740 psi)	[oz/s] [g/s]	[0.85] 24	[1.2] 33	[1.6] 44	[0.60] 17	[0.81] 23	[1.1] 31
> motor 2 (1740 psi)	[oz/s] [g/s]	[0.67] 19	[0.92] 26	[1.2] 35	[0.49] 14	[0.63] 18	[0.88] 25
Max. screw stroke	[in] [mm]	[6.9] 175	[7.2] 184	[7.2] 184	[7.2] 184	[8.0] 203	[8.0] 203
Max. distance of nozzle retraction	[in] [mm]		[11.8] 300			[11.8] 300	
Max. nozzle dipping depth (SVO)	[in] [mm]		[0.79] 20			[0.79] 20	
Nozzle sealing force	[US Tons] [kN]		[6.7] 60			[6.7] 60	
Number of heating zones		4	4	4	4	4	5
Hopper capacity	[gal] [L]		[9.2] 35			[13.2] 50	
General data		140-430			140-600		
Oil tank capacity	[gal] [L]	[58.0] 220			[58.0] 220		
Installed electrical rating							
> pump unit	[hp] [kW]	[24.7] 18.5			[24.7] 18.5		
> heating capacity of screw cylinder	[kw]	9.4	11.1	11.3	11.1	11.3	15.7
> total	[kw]	28	30	30	30	30	34
Dry cycles (EUROMAP 6)	[s-in] [s-mm]						
Net weight (without oil)	[lb] [kg]	[11777.8] 5300			[11888.9] 5350		
Machine dimensions (l x w x h)	[in] [m]	[192.9/59.1/78.7] 4.9x1.5x2.0			[192.9/59.1/78.7] 4.9x1.5x2.0		
Screw motor overhang (H) ¹⁾	[in] [mm]	[0/0] 0/0	[0/0] 0/0	[0/2.0] 0/51	[0/0] 0/0	[0/5.2] 0/133	[0/10.7] 0/272

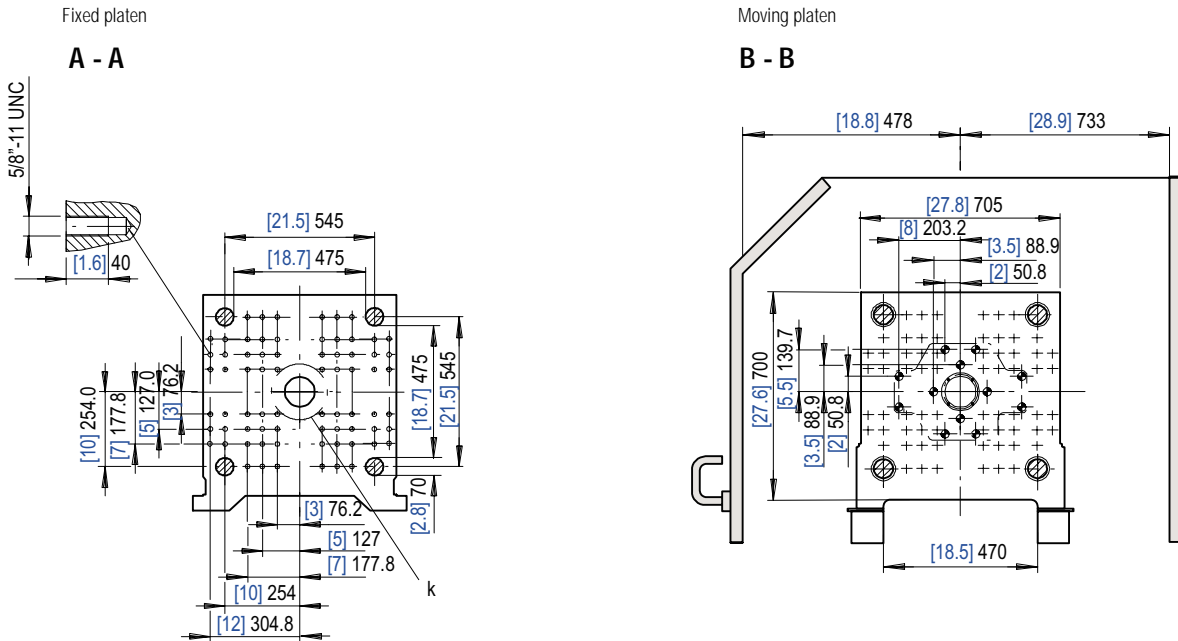
We reserve the right to make changes as a result of further technical advantages. Plasticizing rate depends on processing conditions and material employed.

1) carriage forward/carriage back

Machine dimensions Van Dorn EXTRA 140



Platen dimensions Van Dorn EXTRA 140



Hole pattern according SPI
 k = minimum permissible mold-Ø 11.2/285 mm
 Max. permissible mold weight 12425 lbs./100 kg
 max. 730 kg /1600 lbs. of it on the moving platen support bearings
 ⌀ bore diameter Ø 1.1"/27mm through holes