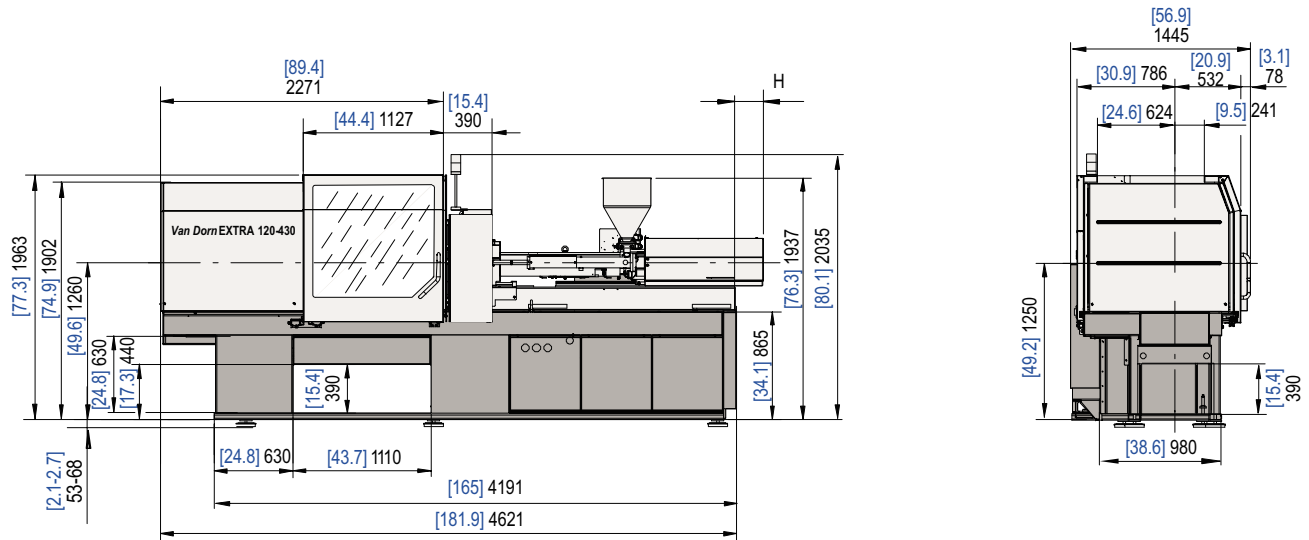


Technical Data Van Dorn EXTRA 120

Van Dorn Demag		Van Dorn EXTRA 120					
Model description		Van Dorn EXTRA 120-430			Van Dorn EXTRA 120-600		
International size description		1100-430			1100-600		
Clamping unit		120					
Clamping force	[US Tons] [kN]	[123.6] 1100					
Locking force	[USTons] [kN]	[123.6] 1100					
Max. mold opening stroke	[in] [mm]	[23.6] 600					
Min. mold height	[in] [mm]	[9.8/7.9/6.9] 250/200/175 ¹⁾					
Max. mold height	[in] [mm]	-					
Max. daylight	[in] [mm]	[33.5] 850					
Mold platen (h x v)	[in] [mm]	[26.4x26.4] 670 x 670					
Distance between tie bars (h x v)	[in] [mm]	[18.5x18.5] 470 x 470					
Ejection stroke	[in] [mm]	[7.1] 180					
Ejection force	[US Tons] [kN]	[4.6] 41					
Retraction force	[US Tons] [kN]	[1.7] 15					
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	[139.6] 2025	[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	[19.6] 322	[24.28] 398
Max. shot weight (PS, PE*)	[oz] [g]	[5.3] 149	[7.2] 205	[9.1] 259	[7.3] 208	[10.3] 291	[12.7] 359
Rate of injection							
> without accumulator	[in ³] [cm ³ /s]	[7.3] 120	[9.8] 160	[12.5] 205	[7.9] 130	[10.4] 170	[12.8] 210
> 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]	[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	5
Hopper capacity	[gal] [L]	[9.2] 35			[15.8] 60		
General data		120-430			120-600		
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]	27.9	29.6	29.8	29.6	29.8	34.2
Dry cycles (EUROMAP 6)	[s-in] [s-mm]	2.60-285			2.60-285		
Net weight (without oil)	[lb] [kg]	[12333.3] 5550			[12444.4] 5600		
Machine dimensions (l x w x h)	[in] [m]	[181.1/59.1/78.7] 4.6x1.5x2.0			[181.1/59.1/78.7] 4.6x1.5x2.0		
Screw motor overhang (H) ²⁾	[in] [mm]	[0/0] 0/0	[0/0] 0/0	[0/2.6] 0/65	[0/0] 0/0	[0/5.0] 0/128	[0/10.5] 0/268

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



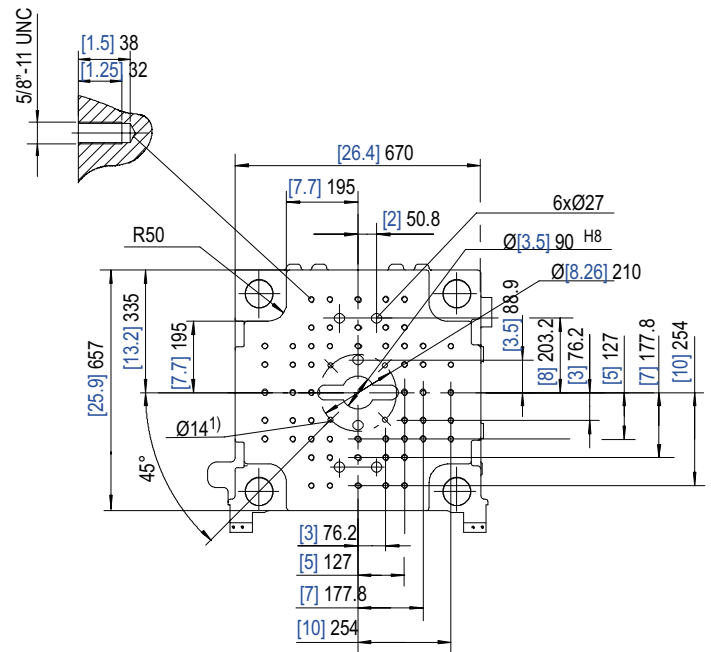
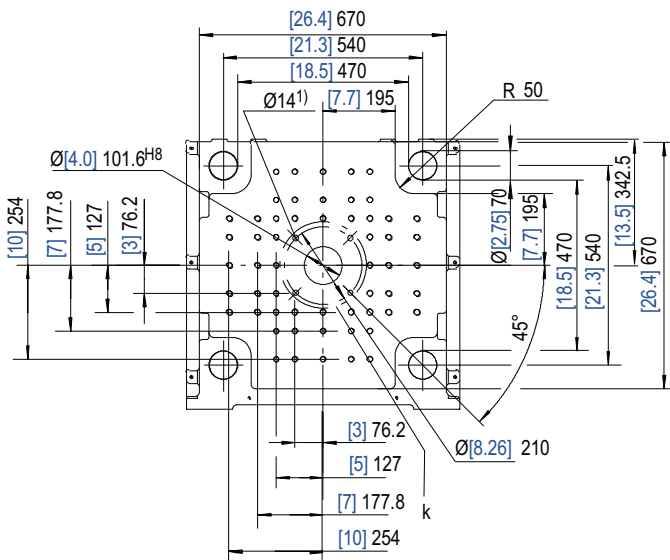
Platen dimensions Van Dorn EXTRA 120

Fixed platen

A - A

Moving platen

B - B



Hole pattern according SPI
 k = minimum permissible mold- Ø 9.1/230 mm
 Max. permissible mold weight 2200 lbs./1000 kg
 max. 1500 lbs./680 kg of it on the moving platen support bearings

DemagPlastics Group
VAN DORN

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