

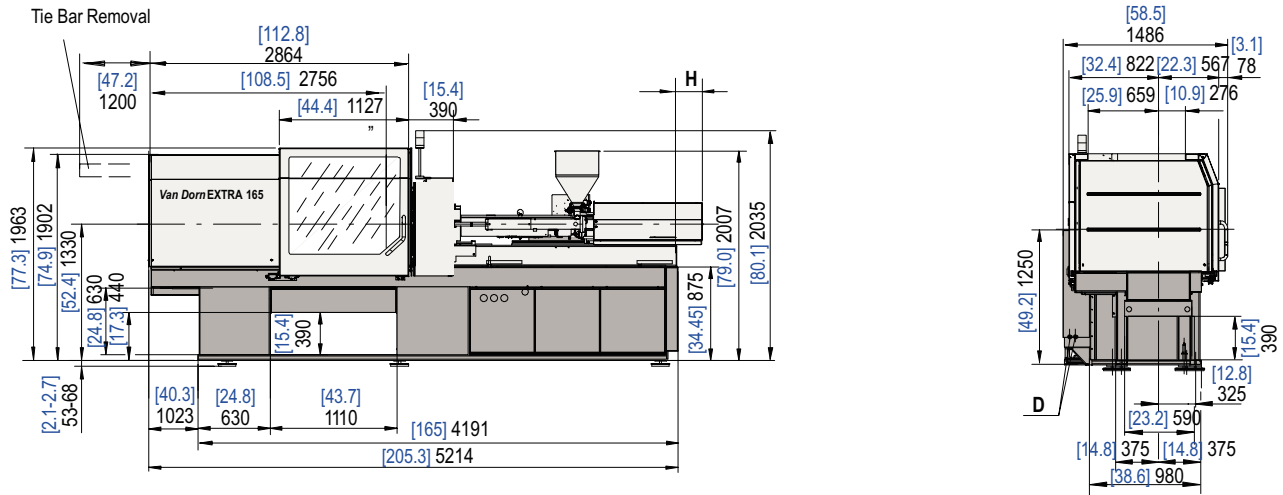
Technical Data Van Dorn EXTRA 165

Van Dorn Demag		Van Dorn EXTRA 165					
Model description		Van Dorn EXTRA 165-430			Van Dorn EXTRA 165-600		
International size description		1500-430			1500-600		
Clamping unit		165					
Clamping force	[US Tons] [kN]	[168.5] 1500					
Locking force	[USTons] [kN]	[185.4] 1650					
Max. mold opening stroke	[in] [mm]	[19.7] 500					
Min. mold height	[in] [mm]	[10.8] 275					
Max. mold height	[in] [mm]	[23.0/26.97] 585/685					
Max. daylight	[in] [mm]	[42.7/46.7] 1085/1185					
Mold platen (h x v)	[in] [mm]	[30.3/30.3] 770 x 770					
Distance between tie bars (h x v)	[in] [mm]	[20.5x20.5] 520 x 520					
Ejection stroke	[in] [mm]	[6.3] 160					
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	[110.5] 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	[12.7] 359
Rate of injection							
> without accumulator	[in ³] [cm ³ /s]	[8.7] 142	[11.3] 185	[14.3] 234	[9.5] 155	[11.96] 196	[14.8] 242
> with accumulator	[in ³] [cm ³ /s]	-	-	-	-	-	-
Plastizising rate (PS)							
> motor 1 (1740 psi)	[oz/s] [g/s]	[1.0] 28	[1.4] 39	[1.8] 52	[0.74] 21	[1.0] 29	[1.4] 40
> motor 2 (1740 psi)	[oz/s] [g/s]	[7.8] 22	[1.1] 31	[1.5] 42	[0.60] 17	[0.81] 23	[1.1] 31
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		165-430			165-600		
Oil tank capacity	[gal] [L]	[58.0] 220			[58.0] 220		
Installed electrical rating							
> pump unit	[hp] [kW]	[29.3] 22			[29.3] 22		
> heating capacity of screw cylinder	[kW]	9.4	11.1	11.3	11.1	11.3	15.7
> total	[kW]	31	33	33	33	33	38
Dry cycles (EUROMAP 6)	[s-in] [s-mm]						
Net weight (without oil)	[lb] [kg]	[14111.1] 6350			[14222.2] 6400		
Machine dimensions (l x w x h)	[in] [m]	[208.7x59.1x78.7] 5.3x1.5x2.0			[208.7x59.1x78.7] 5.3x1.5x2.0		
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

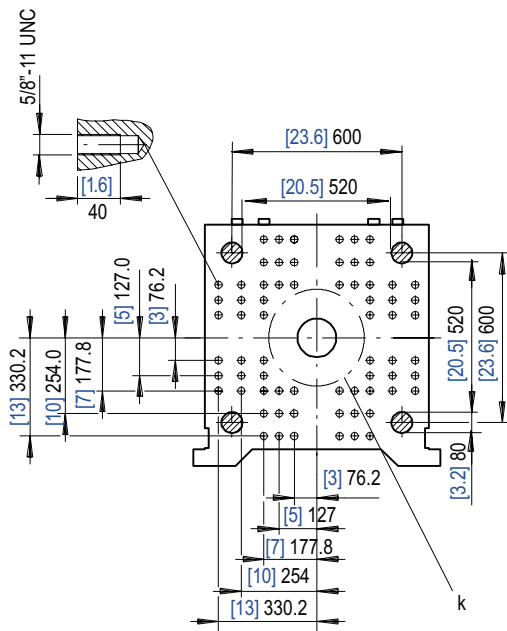
Machine dimensions Van Dorn EXTRA 165



Platen dimensions Van Dorn EXTRA 165

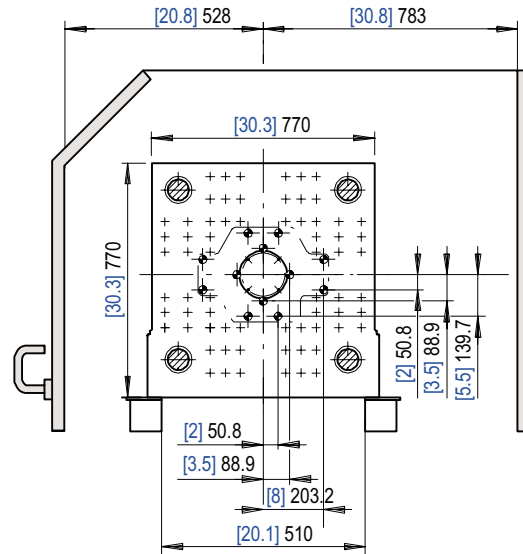
Fixed platen

A - A



Moving platen

B - B



Hole pattern according SPI
 k = minimum permissible mold-Ø 1.8"/300 mm
 Max. permissible mold weight 3748 lbs./1700 kg
 max. 1150 kg/2535 lbs. of it on the moving platen support bearings
 ⊕ bore diameter Ø 1.1"/27mm through holes

DemagPlastics Group
VAN DORN

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6/03/1500
 03.13.08.1