

1.1.4 Data Sheet ERGOtech 80 NC 4

Model description		ERGOtech 80-200 / 80 - 310 / 80-430
Internat. size clarification		800-200 / 800 -310 / 800-430
Clamping unit		800
Clamping force	kN	800
Locking force	kN	800
Max. Opening stroke	mm	450
Min. mould mounting height	mm	250
Max. mould mounting height	mm	—
Max. daylight between platens	mm	700
Overall size of platens	mm	580 x 590
Distance between tiebars	mm	400 x 400
Max. mould weight	kg	510
Hydraulic ejector		
Ejection stroke	mm	150
Ejection force	kN	41,2
Ejector retraction force	kN	14,8


Data Sheet ERGOtech 80 NC 4 – continued

Injection unit		200		
Plasticising cylinder		A	B	C
Screw diameter ¹⁾	mm	25	30	35
L / D – Ratio		20	20	20
Injection pressure (at 400 °C)	bar	2400 ²⁾	1990	1460
Cylinder head volume	ccm	61,3	106,0	144,2
Component weight (PS)	g	54	94	128
Max. Metering stroke	mm	125	150	150
Max. Nozzle stroke	mm	200		
Nozzle dipping depth (SVO)	mm	16	40	40
Nozzle sealing force	kN	60		
Heating capacity of screw cylin.	kW	5,1	7,5	8,8
Hopper capacity	Ltr.	35		
General data				
Oil tank capacity	Ltr.	250		
Pump unit	kW	18,5 / 22,0		
Total installed power	kW	23,6 / 27,1	26,0 / 29,5	27,3 / 30,8
Installed total power with "electrical screw drive"	kW	33,6 / 37,1	36,0 / 39,5	37,3 / 40,8
Net weight (without oil)	kg	approx. 3550 ³⁾		
Machine dimensions L x B x H	m	3,9 x 1,4 x 1,9		
Noise level (pressureless circulation of both pumps)	dB (AS)	66,0		
Noise level (high pressure)	dB (AS)	70,0		

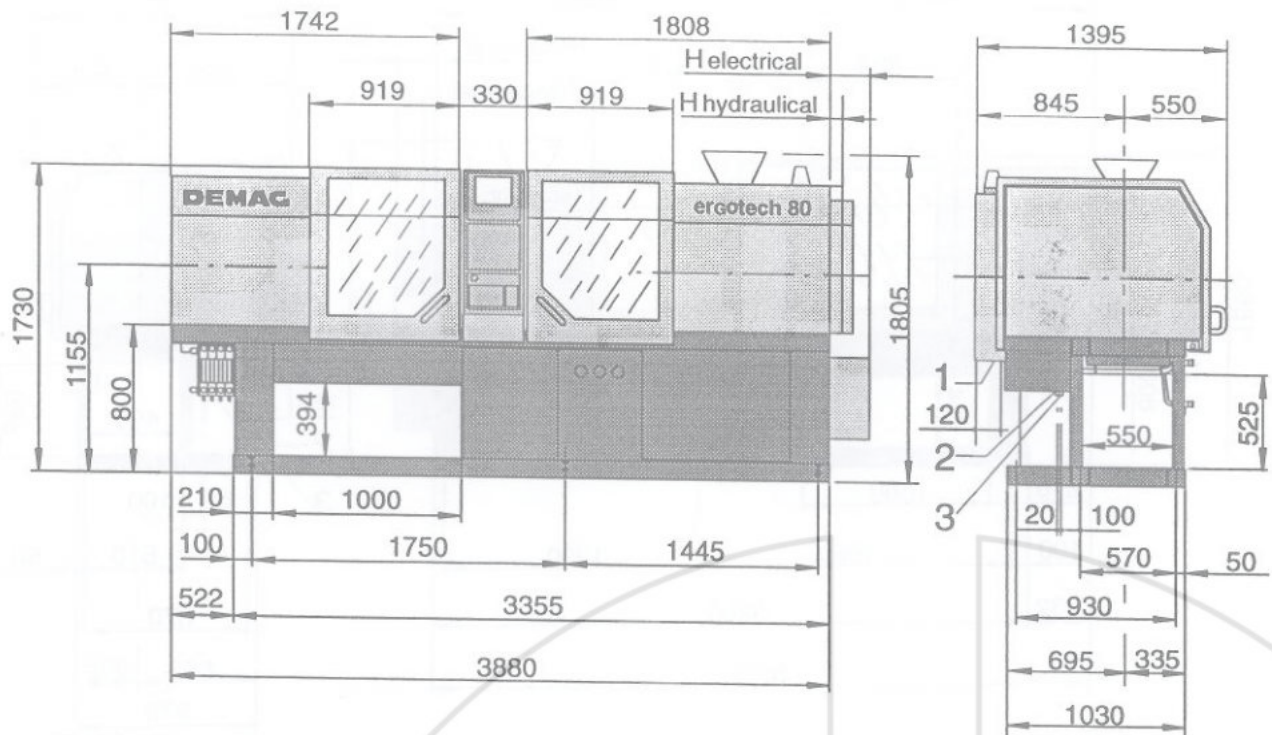
1) Plasticising units with the same screw diameter are exchangeable between the single injection units.

2) On temperature settings above 400°C injection pressure is automatically reduced by machine controller.

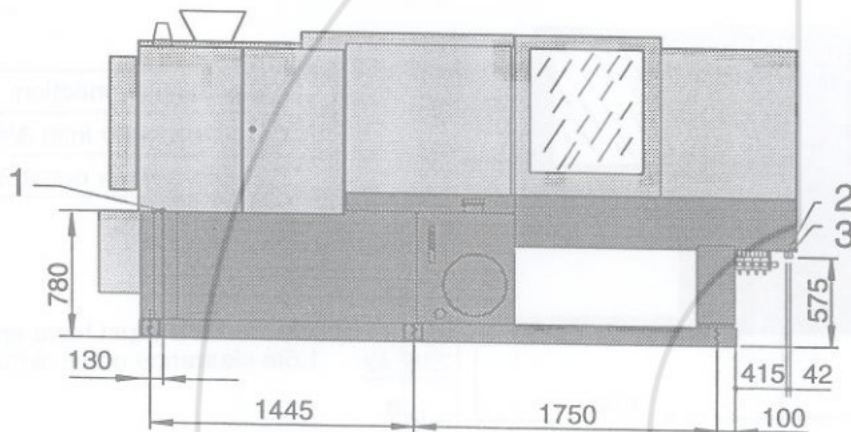
3) Only for B-cylinder and small pump unit.



2.2.4 Installation plan ERGOtech 80



Position E – cooling water connection(s) on the non-operator side



- | | |
|---|---------------------------|
| 1 | Electrical connection |
| 2 | Cooling water inlet 3/4" |
| 3 | Cooling water outlet 3/4" |

The machine must have approx. 1,5m clearance on all sides.

Injection unit	H hydraulic	H electrical
EE 200	0	450
EE 310	0	450
EE 430	190	450

max. 700

min. 250

A B

40

Z

10

125 H8

125 H8

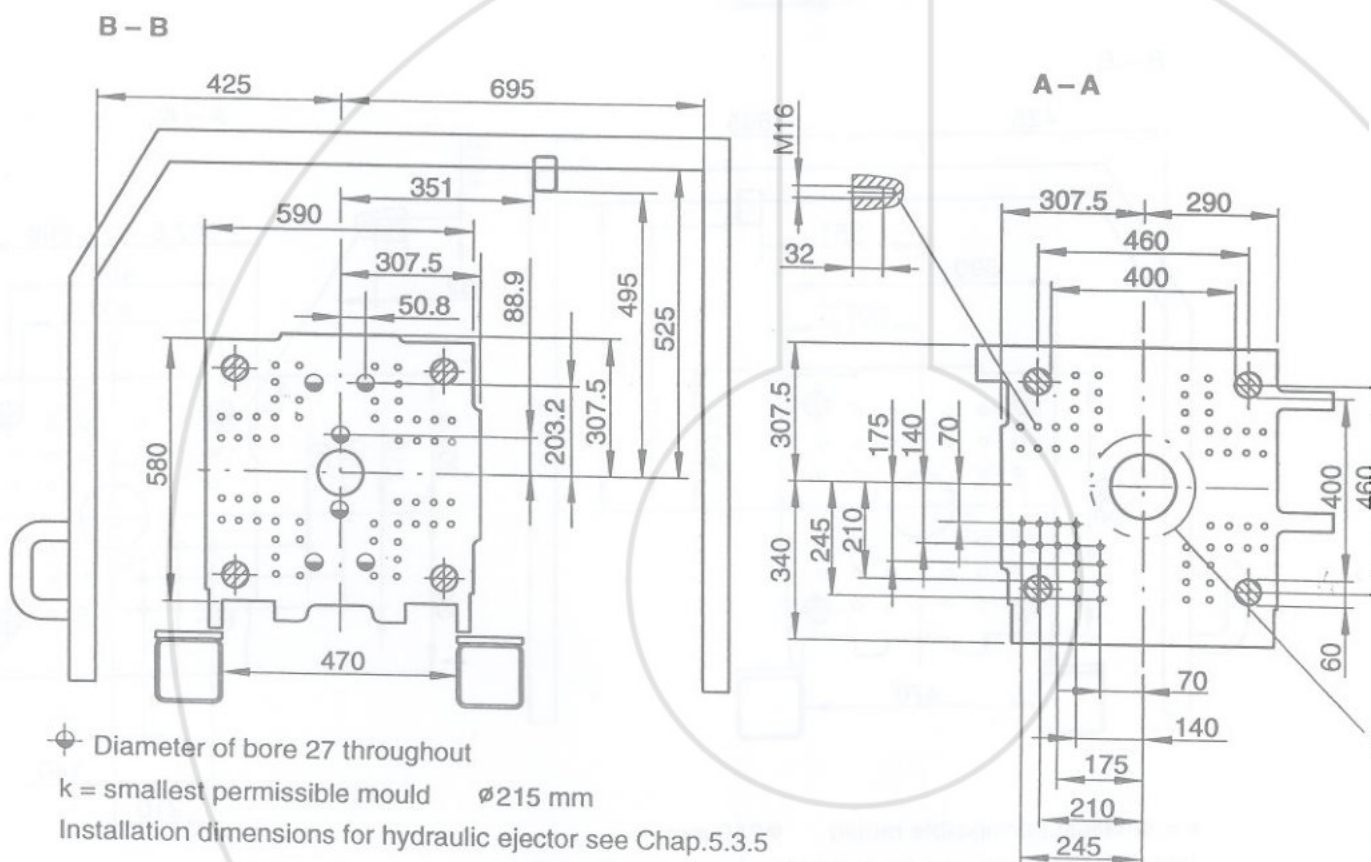
105

35

245

140

M16 x 32



Installation dimensions for hydraulic ejector see Chap.5.3.5