Machine model		**12 M, 12 A**	
International size		129–11	(screw 14mm)
		129–18	(screw 18mm)

Clamping unit

Clamping force	kN	129	
Mould closing force	kN	15	
Mould opening force	kN	23	
Mould opening stroke, max.	mm	200	
Maximum plate distance	mm	300	
Minimum plate distance	mm	100	
Distance between tie bars	mm	259	
Tie bar diameter	mm	35	
Ejector force pushing / pulling	kN	13,5 / 9	120 bar
Ejector stroke	mm	30	

Injection unit

Screw diameter	mm	**14**	**18**
Screw-L/D ratio	—	18	20
Flight depth ratio	—	1,7	2,18
Theor. stroke volume	ccm	6,1	10,1
Injection speed	mm/sec	240	
Pump pressure during injection	bar	97	160
Spec. injection pressure	bar	1800	1795
Injection weight with polystyrene	g	5,4	9
Injection capacity	g/s		
Plasticising capacity	g/s		
Injection force	kN	27,7	45,7
Screw stroke	mm	40	
Screw torque	Nm	90 [2]	130 [2]
Screw speed max.	U/min	300	
Screw retraction force	kN	34,3	
Nozzle pressure force	kN	36	
Nozzle stroke	mm	180	
Nozzle projection beyond fixed platen	mm	15	
Heating capacity 14mm screw [1]	W	235 + 465 + 2x450 + 850 = 2450	
18mm screw [1]	W	235 + 465 + 2x650 + 1200 = 3200	
Hopper capacity	L	7,5	

General

Number of drycycles (Euromap)		1/min	44
Installed driving power		kW	5,5
Installed total power	14mm [1]	kW	7,95
	18mm [1]	kW	8,70
Hydraulic system pressure max.		bar	160
Pump delivery		cm^3/Umdr.	28
Oil tank capacity		L	115

(1) Standard barrel mica (ceramica = option)

(2) 90 Nm = 80 bar, 130 Nm = 120 bar hydraulic pressure

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Dimensions and weights

Length of machine	mm	2246
Width of machine	mm	810
Height of machine	mm	1599
Floor area	m^2	1,8
Total weight net (without oil)	kg	770
Total weight gross (without oil)	kg	880
Mould cooling connection	—	R 1/2"
Oil cooling connection	—	R 1/2"
Resounding power level	dB (A)	77,2 3)

(3) DIN 45635