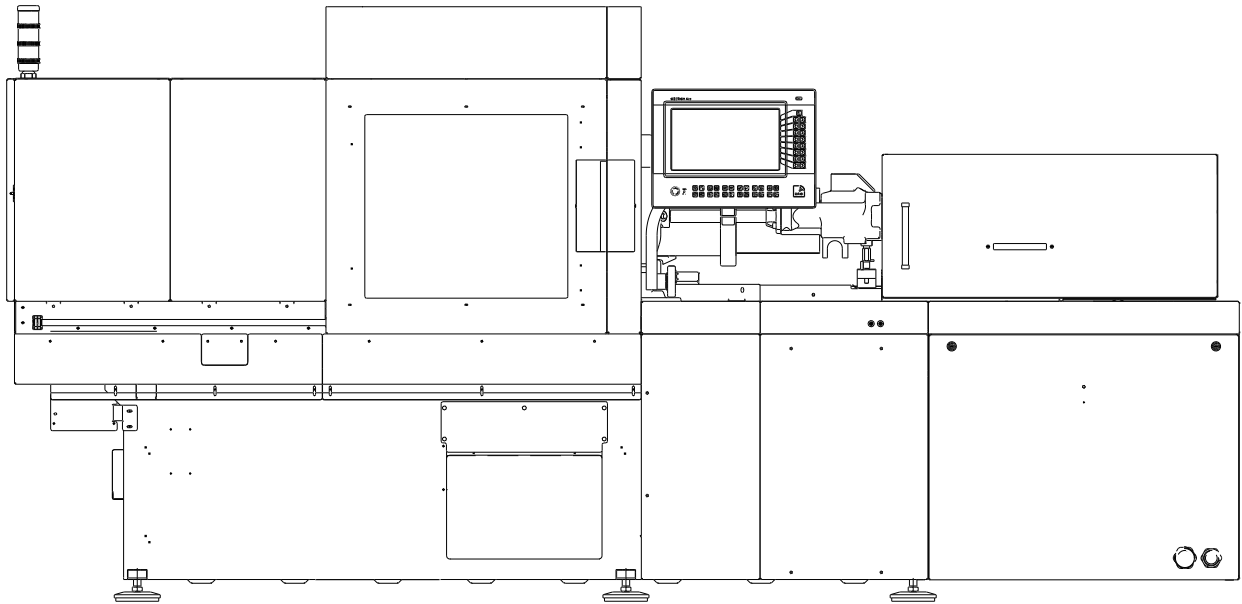




ALLROUNDER 500 e TREND

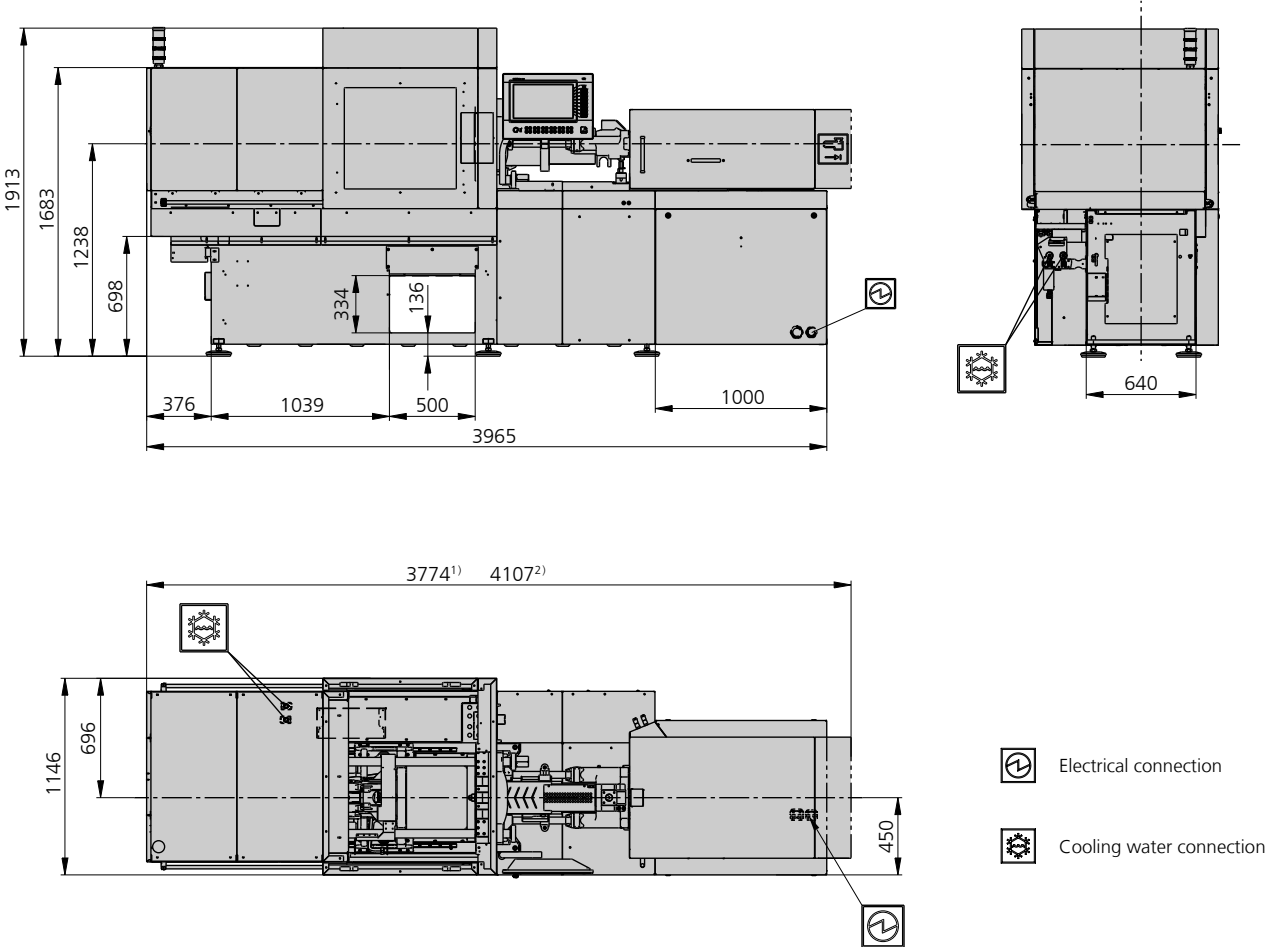
Distance between tie bars: 370 x 370 mm

Clamping force: 500 kN

Injection unit (acc. to EUROMAP): 100 e, 170 e

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MACHINE DIMENSIONS | 500 e TREND



1) Injection unit 100 e
2) Injection unit 170 e

TECHNICAL DATA | 500 e TREND

Clamping unit		500 e TREND
with clamping force	max. kN	500 [600]
Opening force stroke	max. kN mm	--- 350
Mould height, fixed variable	min.-max. mm	--- 150-400
Platen daylight fixed variable	max. mm	--- 500-750
Distance between tie bars (w x h)	mm	370 x 370
Mould mounting platens (w x h)	max. mm	510 x 510
Weight of movable mould half	max. kg	360
Ejector force stroke	max. kN mm	25 100
Dry cycle time EUROMAP	min. s - mm	1,2 - 259

Injection unit		100 e			170 e			
with screw diameter	mm	20	25	30	25	30	35	
Effective screw length	L/D	25	20	16,7	24	20	17	
Screw stroke	max. mm	100			120			
Calculated stroke volume	max. cm³	31	49	71	59	85	115	
Shot weight	max. g PS	29	45	65	54	77	105	
Material throughput	max. kg/h PS	5,5	8	9,5	10	13,5	16	
	max. kg/h PA6.6	2,8	4	4,9	5	7	8	
Injection pressure	max. bar	2500	2000	1390	2500	2000	1470	
Holding pressure time ⁶	max. s - bar	45-2500	45-1600	45-1110	45-2300	45-1600	45-1170	
Injection flow ²	max. cm³/s	64	100	144	98	142	192	
Injection flow ⁷	max. cm³/s	[110]	[172]	[248]	[172]	[248]	[338]	
Injection flow ⁷	max. cm³/s	[158]	[246]	[356]	[246]	[354]	[484]	
Injection speed ⁵	max. mm/s	200			200			
Injection speed ⁸	max. mm/s	[350] [500]			[350] [500]			
Screw circumferential speed	max. m/min	24 [48]	30 [60]	36 [72]	25 [50]	30 [60]	35 [70]	
Screw torque	max. Nm	120	150	180	210	250	290	
Nozzle contact force retraction stroke	max. kN mm	30 [50] 180			30 [50] 210			
Heating capacity zones	kW	6,7 5			9 5			

Drive and connection			100 e		170 e	
with injection unit						
Net weight of machine	kg		2950		2950	
Sound press. level Insecurity ⁴	dB(A)				58 3	
Electrical connection ³	kW		15 [16] [19]		20 [22] [23]	
	Total	A	35 [35] [80]		40 [63] [80]	
	Machine	A			---	
	Heating	A			---	
Cooling water connection	max. °C				35	
	min. Δp bar				1,5 DN 25	

Machine type (according to EUROMAP) ¹

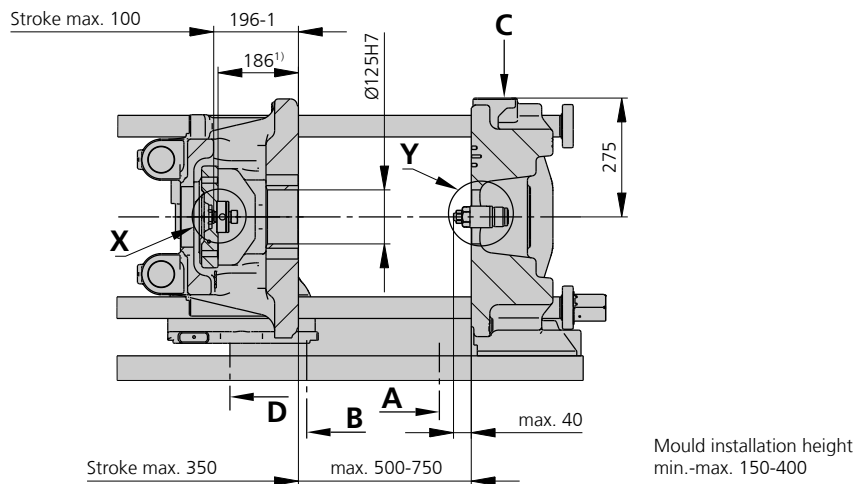
ALLROUNDER 500 e TREND 100 e | 170 e

Upon request: other machine types and mould installation heights, screws, drive powers etc.

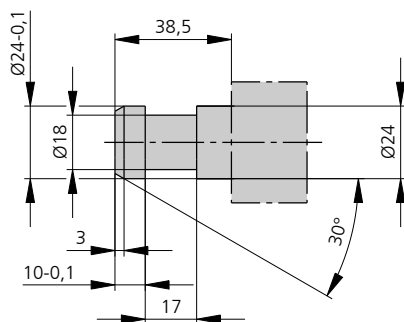
All specifications relate to the basic machine version. Deviations are possible depending on variants, process settings and material type. Depending on the drive, certain combinations, e.g. max. injection pressure and max. injection flow may be mutually exclusive.

- 1) Clamping force (kN) - size of injection unit = max. stroke volume (cm³) x max. injection pressure (kbar)
 - 2) Specification of maximum injection flow at 1000 bar injection pressure.
 - 3) Specifications relate to 400 V/50 Hz.
 - 4) Emission sound pressure level at the workplace. Detailed information in the operating instructions.
 - 5) Forward speed of plasticising screw at 1000 bar injection pressure.
 - 6) Holding pressure duration may differ at 500 mm/s injection speed.
 - 7) Specification of maximum injection flow at 2000 bar injection pressure
 - 8) Forward speed of plasticising screw at 2000 bar injection pressure.
- [] Specifications apply to alternative equipment.

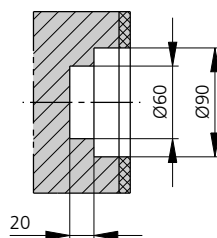
MOULD INSTALLATION DIMENSIONS | 500 e TREND



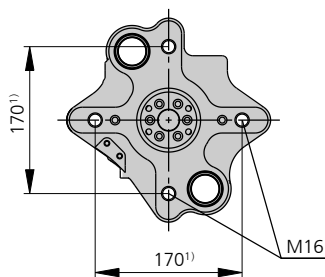
Ejector bolt | X



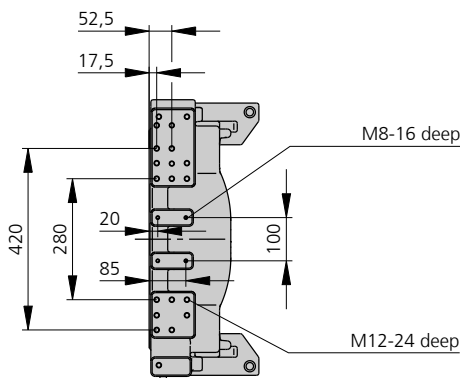
Bore in mould (if required) | Y



Ejector plate | D



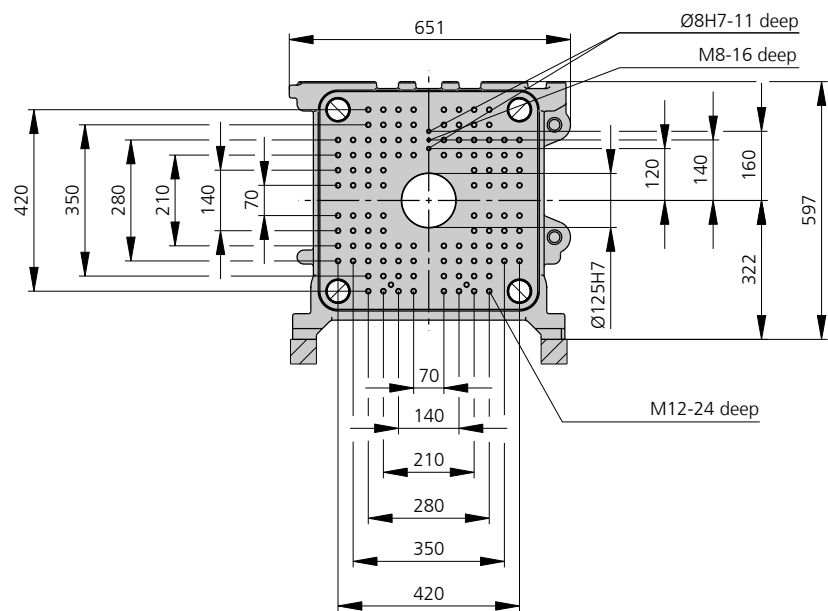
Robotic system mounting | C



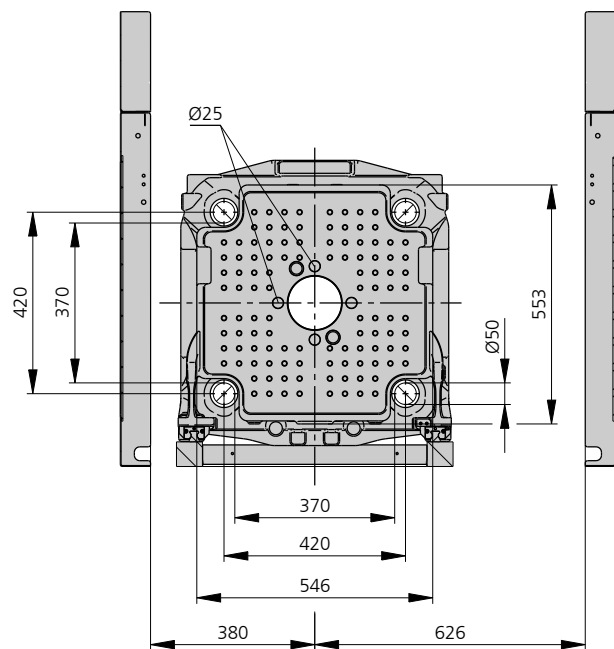
1) Position of ejector plate

MOULD INSTALLATION DIMENSIONS | 500 e TREND

Fixed mould mounting platen | A



Moving mould mounting platen | B



SHOT WEIGHTS | 500 e TREND

Theoretical shot weights for the most important injection moulding materials

Injection units according to EUROMAP		100			170			
Screw diameter	mm	20	25	30	25	30	35	
Polystyrene	max. g PS	29	45	65	54	77	105	
Styrene heteropolymerizates	max. g SB	28	44	63	53	76	103	
	max. g SAN, ABS ¹⁾	27	43	62	52	74	101	
Cellulose acetate	max. g CA ¹⁾	32	50	73	61	87	119	
Celluloseacetobutyrate	max. g CAB ¹⁾	30	47	68	56	81	110	
Polymethyl methacrylate	max. g PMMA	30	46	67	56	80	109	
Polyphenylene ether, mod.	max. g PPE	27	42	60	50	72	98	
Polycarbonate	max. g PC	30	47	68	57	81	111	
Polysulphone	max. g PSU	31	49	70	58	84	115	
Polyamides	max. g PA 6.6 PA 6 ¹⁾	28	44	64	53	77	104	
	max. g PA 6.10 PA 11 ¹⁾	26	41	60	50	72	98	
Polyoximethylene (Polyacetal)	max. g POM	35	55	80	66	96	130	
Polyethylene terephthalate	max. g PET	34	53	77	64	92	126	
Polyethylene	max. g PE-LD	22	34	49	41	59	80	
	max. g PE-HD	22	35	50	42	60	82	
Polypropylene	max. g PP	23	36	51	43	62	84	
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	46	72	103	86	124	169	
	max. g ETFE	40	63	91	76	109	148	
Polyvinyl chloride	max. g PVC-U	35	54	78	65	94	127	
	max. g PVC-P ¹⁾	32	50	72	60	87	118	

1) average value

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