

ALLROUNDER MORE 2000

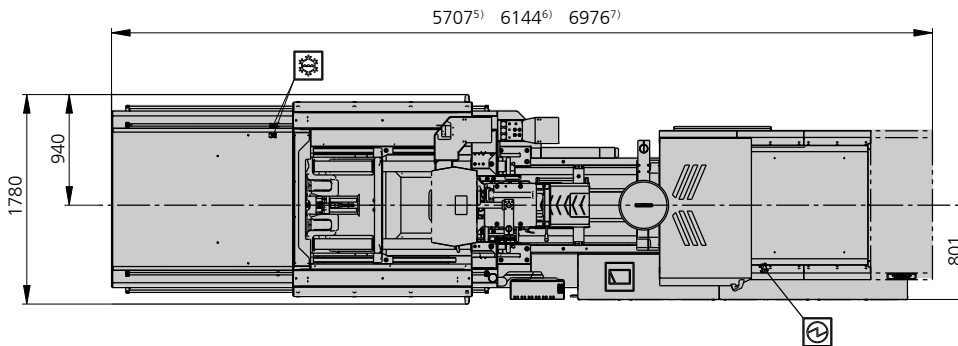
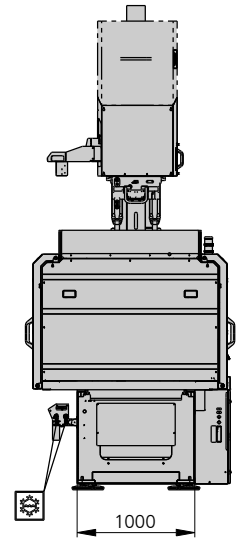
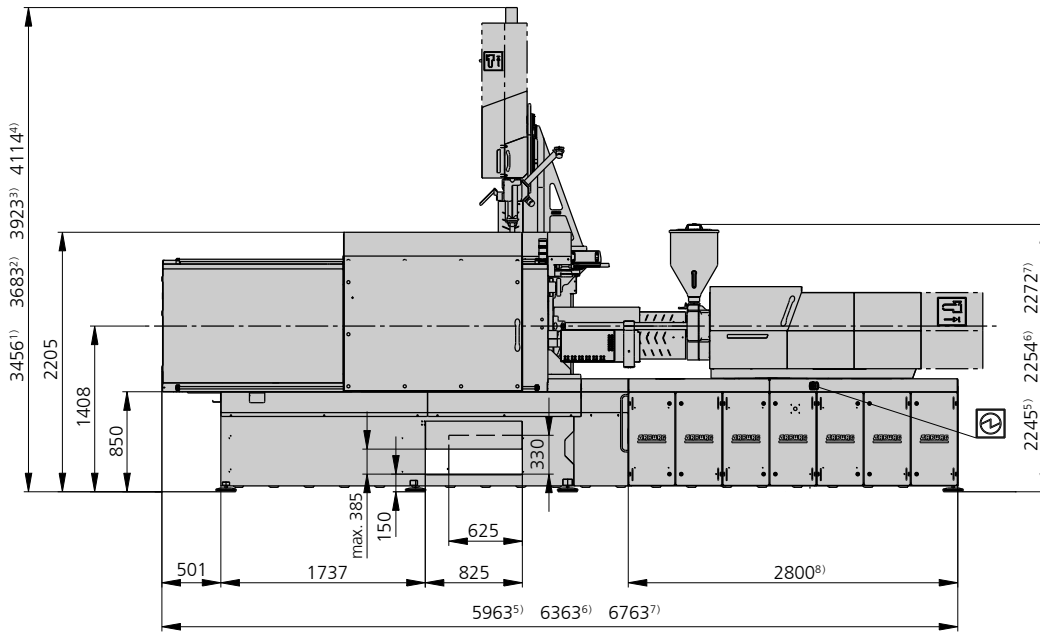
Distance between tie bars: 570 x 570 mm


Clamping force: 2000 kN


Injection unit: 400, 800, 1300 – horizontal
70, 100, 170, 290 – vertical

ARBURG

MACHINE DIMENSIONS | MORE 2000



 Electrical connection

 Cooling water connection

- 1) Injection unit 70
- 2) Injection unit 100
- 3) Injection unit 170
- 4) Injection unit 290
- 5) Injection unit 400
- 6) Injection unit 800
- 7) Injection unit 1300
- 8) Depending on the size of the injection unit

TECHNICAL DATA | MORE 2000

Clamping unit			MORE 2000
with clamping force	max. kN		2000
Opening force stroke	max. kN mm		--- 450
Mould height, fixed variable	min.-max. mm		--- 350 - 750
Platen daylight fixed variable	max. mm		--- 800 - 1200
Distance between tie bars (w x h)	mm		570 x 570
Mould mounting platens (w x h)	max. mm		795 x 795
Weight of movable mould half	max. kg		1300
Ejector force stroke	max. kN mm		60 200
Dry cycle time EUROMAP ²	Comfort	min. s - mm	1,8 - 399
	Ultimate	min. s - mm	1,2 - 399

Injection unit ¹			70			100			170		
with screw diameter	mm		18	22	25	20	25	30	25	30	35
Effective screw length	L/D		24,5	20	17,5	25	20	16,7	24	20	17
Screw stroke	max. mm		90			100			120		
Calculated stroke volume	max. cm ³		23	34	44	31	49	71	59	85	115
Shot weight	max. g PS		21	31	40	29	45	65	54	77	105
Material throughput	max. kg/h PS		4,1	5,5	6,5	5,5	8	9,5	10	13,5	16
	max. kg/h PA6.6		2,1	2,8	3,3	2,8	4	4,9	5	7	8
Injection pressure	max. bar		2500	2000	1550	2500	2000	1390	2500	2000	1470
Holding pressure time	max. s - bar		300-2390	300-1600	300-1240	300-2500	300-1600	300-1110	300-2310	300-1600	300-1170
Injection flow ²	Comfort [+]	max. cm ³ /s	51 [66]	76 [99]	98 [127]	64 [83]	100 [130]	144 [187]	79 [104]	114 [150]	155 [203]
	Ultimate [+]	max. cm ³ /s	76 [101]	114 [152]	147 [196]	94 [125]	148 [197]	214 [285]	148 [197]	214 [285]	290 [387]
Injection speed ⁵	Comfort [+]	max. mm/s	280 [350]			280 [350]			215 [280]		
	Ultimate [+]	max. mm/s	350 [400]			350 [400]			350 [400]		
Screw circumferential speed	max. m/min		45	55	63	40	50	60	50	60	70
Screw torque	max. Nm		90	110	120	120	150	180	210	250	290
Nozzle contact force retraction stroke	max. kN mm		50 150			50 180			50 300		
Heating capacity zones	kW		4,2 4			6,7 5			9 5		
Feed hopper	l		---			---			---		

Drive and connection			Comfort				Ultimate			
with horizontal/moving injection unit			400/70	400/100	400/170	400/290	400/70	400/100	400/170	400/290
Net weight of machine	kg		10650	10830	10900	10900	10650	10830	10900	10900
Sound press. level Insecurity ⁴	dB(A)		66 3				66 3			
Electrical connection ³	kW		39	43	47	48	41	44	48	50
	Total	A	100	100	125	125	100	100	125	125
	Machine	A	63	63	63	80	80	80	80	80
	Heating	A	35	35	40	35	35	35	40	35
Cooling water connection	max. °C		30				30			
	min. Δp bar		1,5 DN 25				1,5 DN 25			

Machine type

with EUROMAP size designation ¹

MORE 2000-400/70 | 400/100 | 400/170 | 400/290

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 maximum 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.
- [] Specifications apply to alternative equipment.

TECHNICAL DATA | MORE 2000

Clamping unit			MORE 2000
with clamping force	max. kN		2000
Opening force stroke	max. kN mm		--- 450
Mould height, fixed variable	min.-max. mm		--- 350 - 750
Platen daylight fixed variable	max. mm		--- 800 - 1200
Distance between tie bars (w x h)	mm		570 x 570
Mould mounting platens (w x h)	max. mm		795 x 795
Weight of movable mould half	max. kg		1300
Ejector force stroke	max. kN mm		60 200
Dry cycle time EUROMAP ²	Comfort	min. s - mm	1,8 - 399
	Ultimate	min. s - mm	1,2 - 399

Injection unit ¹		290			400			
with screw diameter	mm	30	35	40	35	40	45	
Effective screw length	L/D	23,3	20	17,5	23	20	18	
Screw stroke	max. mm	150			160			
Calculated stroke volume	max. cm ³	106	144	188	154	201	254	
Shot weight	max. g PS	97	132	172	141	184	232	
Material throughput	max. kg/h PS	17	20,5	24,5	25	29	35	
	max. kg/h PA6.6	8,5	10,5	12,5	12,5	15	17,5	
Injection pressure	max. bar	2500	2000	1530	2500	2000	1580	
Holding pressure time	max. s - bar	300-2180	300-1600	300-1220	300-2090	300-1600	300-1260	
Injection flow ²	Comfort [+]	max. cm ³ /s	105 [140]	144 [191]	188 [250]	125 [163]	163 [213]	207 [271]
	Ultimate [+]	max. cm ³ /s	212 [283]	288 [384]	376 [501]	241 [313]	314 [408]	398 [517]
Injection speed ⁵	Comfort [+]	max. mm/s	215 [280]			190 [240]		
	Ultimate [+]	max. mm/s	350 [400]			300 [325]		
Screw circumferential speed	max. m/min	51	60	69	53	60	68	
Screw torque	max. Nm	320	380	430	480	550	610	
Nozzle contact force retraction stroke	max. kN mm	50 300			60 300			
Heating capacity zones	kW	7,7 5			9,7 5			
Feed hopper	l	---			---			

Drive and connection		Comfort				Ultimate			
with horizontal/moving injection unit		800/70	800/100	800/170	800/290	800/70	800/100	800/170	800/290
Net weight of machine	kg	11150	11330	11400	11400	11150	11330	11400	11400
Sound press. level Insecurity ⁴	dB(A)	66 3				66 3			
Electrical connection ³	kW	57	61	65	66	59	62	66	68
	Total	A	125	125	160	160	125	125	160
	Machine	A	80	80	80	80	80	80	100
	Heating	A	40	50	50	50	40	50	50
Cooling water connection	max. °C	30				30			
	min. Δp bar	1,5 DN 25				1,5 DN 25			

Machine type
with EUROMAP size designation ¹
MORE 2000-800/70 | 800/100 | 800/170 | 800/290

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 maximum 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.
- [] Specifications apply to alternative equipment.

TECHNICAL DATA | MORE 2000

Clamping unit			MORE 2000
with clamping force	max. kN		2000
Opening force stroke	max. kN mm		--- 450
Mould height, fixed variable	min.-max. mm		--- 350 - 750
Platen daylight fixed variable	max. mm		--- 800 - 1200
Distance between tie bars (w x h)	mm		570 x 570
Mould mounting platens (w x h)	max. mm		795 x 795
Weight of movable mould half	max. kg		1300
Ejector force stroke	max. kN mm		60 200
Dry cycle time EUROMAP ²	Comfort	min. s - mm	1,8 - 399
	Ultimate	min. s - mm	1,2 - 399

Injection unit ¹			800			1300		
with screw diameter	mm		45	50	55	55	60	70
Effective screw length	L/D		22	20	18	22	20	17
Screw stroke	max. mm		200			240		
Calculated stroke volume	max. cm ³		318	392	474	570	678	923
Shot weight	max. g PS		291	359	434	521	620	844
Material throughput	max. kg/h PS		46	53	59	86	96	115
	max. kg/h PA6.6		23	27	30	43	48	58
Injection pressure	max. bar		2470	2000	1650	2380	2000	1470
Holding pressure time	max. s - bar		300-1980	300-1600	300-1320	300-1900	300-1600	300-1170
Injection flow ²	Comfort [+]	max. cm ³ /s	175 [239]	216 [295]	261 [356]	261 [356]	311 [424]	423 [577]
	Ultimate [+]	max. cm ³ /s	318 [477]	394 [591]	476 [714]	475	565	770
Injection speed ⁵	Comfort [+]	max. mm/s	150 [200]			110 [150]		
	Ultimate [+]	max. mm/s	240 [300]			200		
Screw circumferential speed	max. m/min		54	60	66	55	60	70
Screw torque	max. Nm		900	1000	1100	1510	1640	1920
Nozzle contact force retraction stroke	max. kN mm		70 400			90 500		
Heating capacity zones	kW		19,9 8			22,9 8		
Feed hopper	l		---			---		

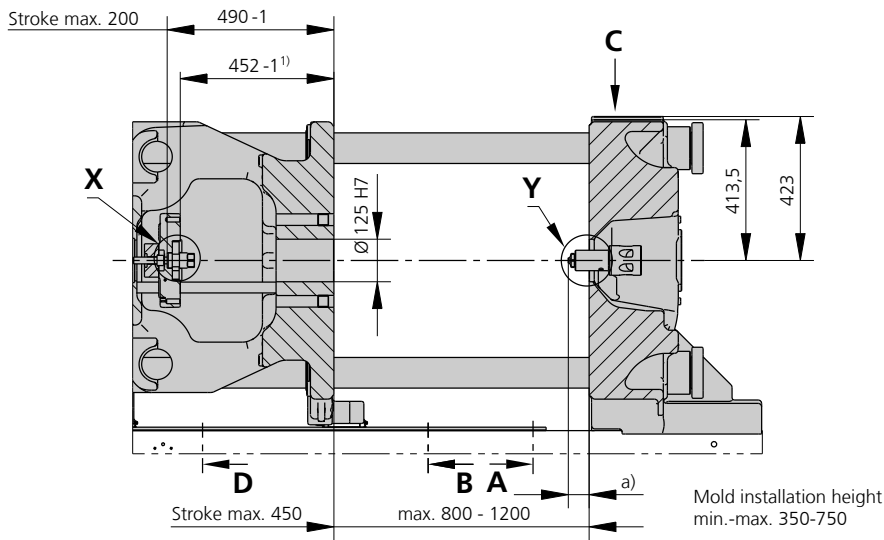
Drive and connection			Comfort				Ultimate			
with horizontal/moving injection unit			1300/70	1300/100	1300/170	1300/290	1300/70	1300/100	1300/170	1300/290
Net weight of machine	kg		12350	12530	12600	12600	12350	12530	12600	12600
Sound press. level Insecurity ⁴	dB(A)		66 3				66 3			
Electrical connection ³	kW		73	77	81	82	75	78	83	84
	Total	A	160	160	160	160	160	160	160	160
	Machine	A	100	100	100	125	100	100	100	125
	Heating	A	50	50	63	63	50	50	63	63
Cooling water connection	max. °C		30				30			
	min. Δp bar		1,5 DN 25				1,5 DN 25			

Machine type
with EUROMAP size designation ¹
MORE 2000-1300/70 | 1300/100 | 1300/170 | 1300/290

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.

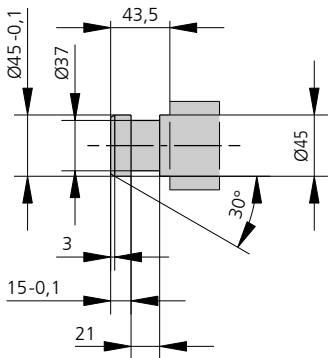
- 1) Clamping force (kN) - size of injection unit = max. stroke volume (cm³) x max. injection pressure (kbar).
 - 2) Specification of maximum injection flow at maximum injection pressure.
 - 3) Specifications relate to 400 V/50 Hz.
 - 4) Emission sound pressure level at the workplace. Detailed information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

MOULD INSTALLATION DIMENSIONS | MORE 2000

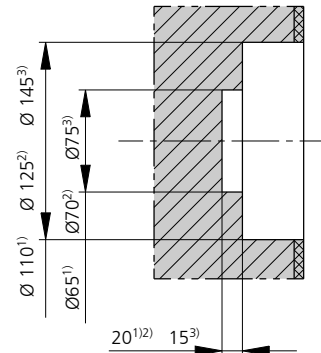
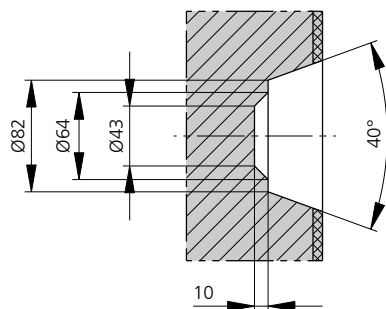


	Injection unit	
	400 / 800	1300
a max.	50	60

Ejector bolt | X

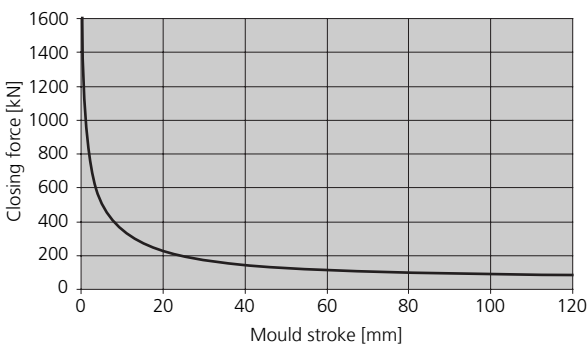


Bore in mould (if required) | Y



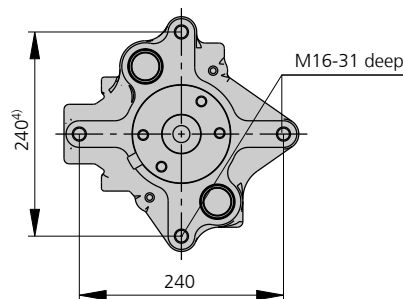
Dimensions for thermoset moulds

Closing force for spring moulds / during injection compression moulding*

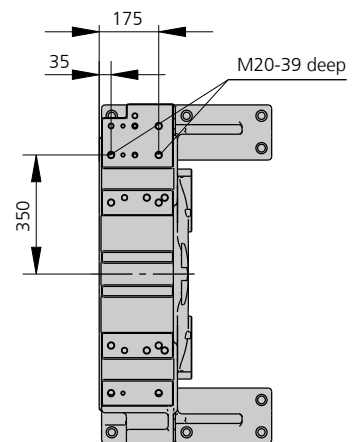


* automatic locking force adjustment up to 30 kN

Ejector plate | D



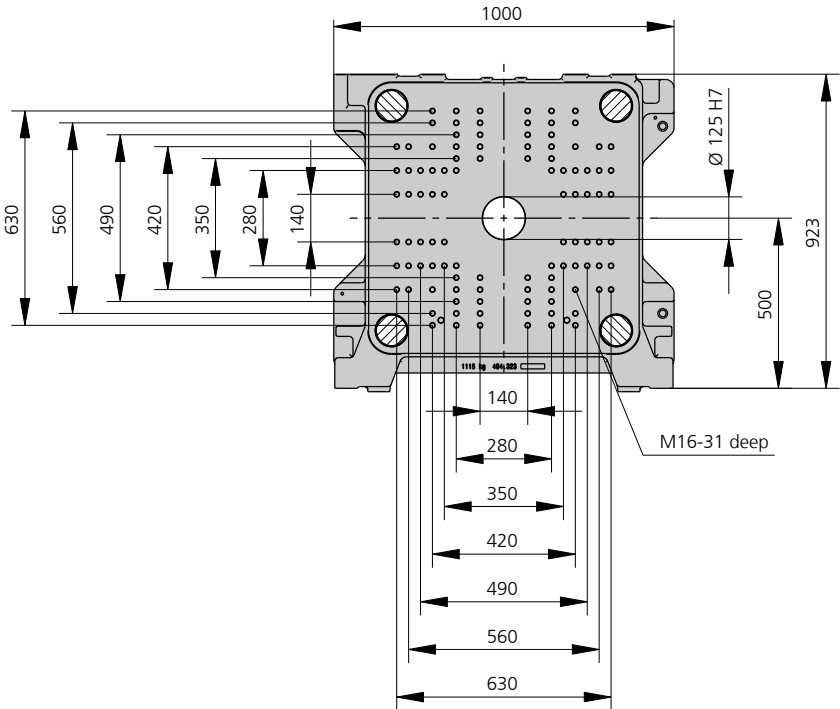
Robotic system mounting | C



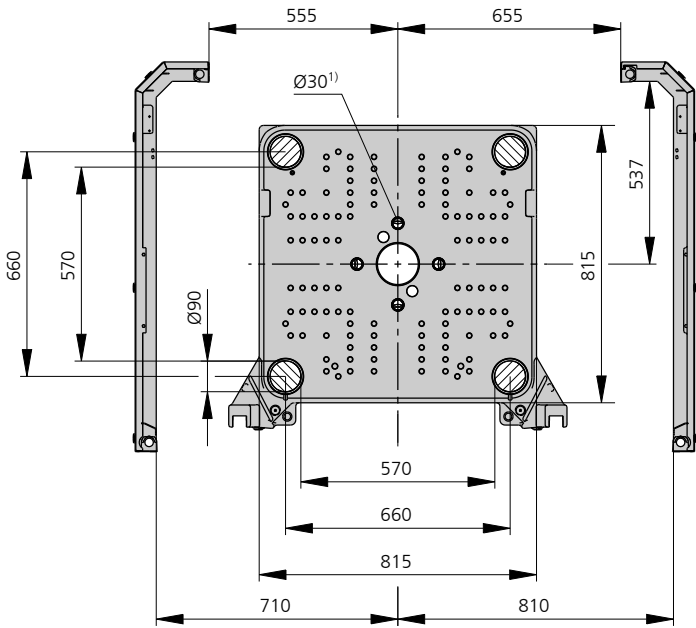
- 1) Injection unit 400
- 2) Injection unit 800
- 3) Injection unit 1300
- 4) Travel from injection position (a min.) to mould change position

MOULD INSTALLATION DIMENSIONS | MORE 2000

Fixed mould mounting platen | A



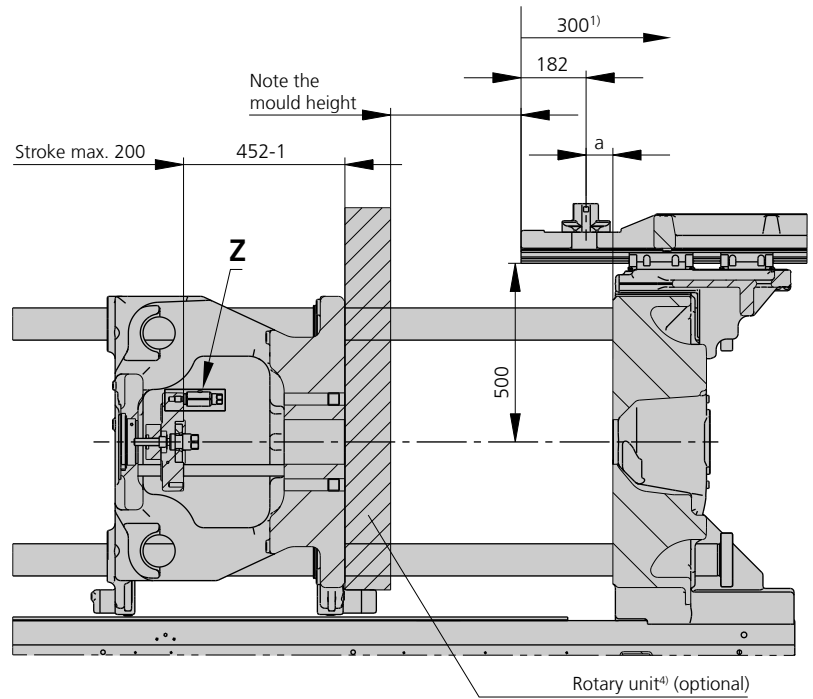
Moving mould mounting platen | B



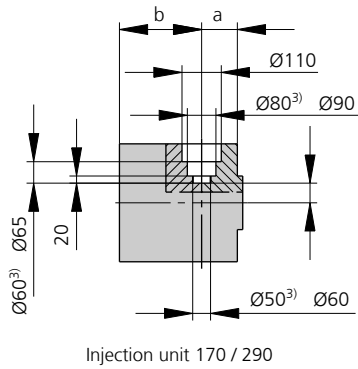
1) Guide

DEVICE FOR PARTING LINE INJECTION | MORE 2000

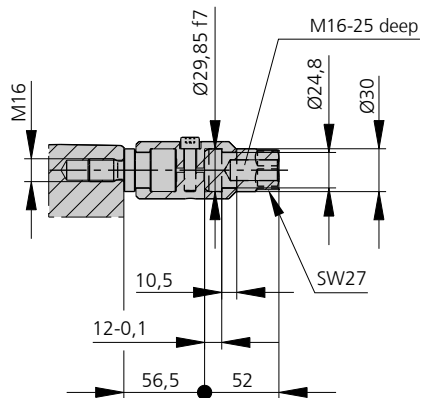
	Injection positions for injection unit	
	70 / 100	170 / 290
a min.	70	70
a max.	250	250
b min.	70 / 80 ⁴⁾	70 / 80 ⁴⁾
c min.	265	240



Bore in mould (if required)



Ejector coupling (optional) | Z



- 1) Travel from injection position (a min.) to mould changing position
- 2) See separate facts and figures for information
- 3) Injection unit 100
- 4) Injection unit with hydraulic nozzle

SHOT WEIGHTS | MORE 2000

Theoretical shot weights for the most important injection moulding materials

Injection units according to EUROMAP		70			100			170		
Screw diameter	mm	18	22	25	20	25	30	25	30	35
Polystyrene	max. g PS	21	31	40	29	45	65	54	77	105
Styrene heteropolymerizates	max. g SB	20	31	39	28	44	63	53	76	103
	max. g SAN, ABS ¹⁾	20	30	39	27	43	62	52	74	101
Cellulose acetate	max. g CA ¹⁾	24	35	45	32	50	73	61	87	119
Celluloseacetobutyrate	max. g CAB ¹⁾	22	33	42	30	47	68	56	81	110
Polymethyl methacrylate	max. g PMMA	22	32	42	30	46	67	56	80	109
Polyphenylene ether, mod.	max. g PPE	19	29	37	27	42	60	50	72	98
Polycarbonate	max. g PC	22	33	42	30	47	68	57	81	111
Polysulphone	max. g PSU	23	34	44	31	49	70	58	84	115
Polyamides	max. g PA 6.6 PA 6 ¹⁾	21	31	40	28	44	64	53	77	104
	max. g PA 6.10 PA 11 ¹⁾	19	29	37	26	41	60	50	72	98
Polyoximethylene (Polyacetal)	max. g POM	26	39	50	35	55	80	66	96	130
Polyethylene terephthalate	max. g PET	25	37	48	34	53	77	64	92	126
Polyethylene	max. g PE-LD	16	24	30	22	34	49	41	59	80
	max. g PE-HD	16	24	31	22	35	50	42	60	82
Polypropylene	max. g PP	17	25	32	23	36	51	43	62	84
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	33	50	65	46	72	103	86	124	169
	max. g ETFE	29	44	57	40	63	91	76	109	148
Polyvinyl chloride	max. g PVC-U	25	38	49	35	54	78	65	94	127
	max. g PVC-P ¹⁾	23	35	45	32	50	72	60	87	118

Injection units according to EUROMAP		290			400			800		
Screw diameter	mm	30	35	40	35	40	45	45	50	55
Polystyrene	max. g PS	97	132	172	141	184	232	291	359	434
Styrene heteropolymerizates	max. g SB	95	129	168	137	179	227	284	350	424
	max. g SAN, ABS ¹⁾	93	126	165	135	176	223	278	344	416
Cellulose acetate	max. g CA ¹⁾	109	148	194	158	207	262	327	404	488
Celluloseacetobutyrate	max. g CAB ¹⁾	101	138	180	147	192	243	304	375	454
Polymethyl methacrylate	max. g PMMA	100	136	178	145	190	240	300	371	449
Polyphenylene ether, mod.	max. g PPE	90	122	160	131	171	216	270	333	403
Polycarbonate	max. g PC	102	139	181	148	193	244	305	377	456
Polysulphone	max. g PSU	105	143	187	153	199	252	316	390	471
Polyamides	max. g PA 6.6 PA 6 ¹⁾	96	131	171	140	183	231	289	357	431
	max. g PA 6.10 PA 11 ¹⁾	90	122	160	131	171	216	270	333	403
Polyoximethylene (Polyacetal)	max. g POM	120	163	213	174	227	287	359	443	536
Polyethylene terephthalate	max. g PET	115	157	205	167	219	277	346	427	517
Polyethylene	max. g PE-LD	73	100	130	106	139	176	219	271	328
	max. g PE-HD	76	103	134	110	143	181	227	280	339
Polypropylene	max. g PP	77	105	137	112	146	185	232	286	346
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	155	211	276	225	294	372	465	574	695
	max. g ETFE	136	185	242	196	256	324	408	504	609
Polyvinyl chloride	max. g PVC-U	117	159	208	170	222	281	351	434	525
	max. g PVC-P ¹⁾	108	147	192	157	205	260	324	401	485

1) average value

Theoretical shot weights for the most important injection moulding materials

Injection units according to EUROMAP		1300		
Screw diameter	mm	55	60	70
Polystyrene	max. g PS	521	620	844
Styrene heteropolymerizates	max. g SB	509	606	824
	max. g SAN, ABS ¹⁾	499	594	808
Cellulose acetate	max. g CA ¹⁾	586	698	949
Celluloseacetobutyrate	max. g CAB ¹⁾	545	649	883
Polymethyl methacrylate	max. g PMMA	538	641	872
Polyphenylene ether, mod.	max. g PPE	484	575	783
Polycarbonate	max. g PC	547	651	887
Polysulphone	max. g PSU	566	673	916
Polyamides	max. g PA 6.6 PA 6 ¹⁾	517	616	838
	max. g PA 6.10 PA 11 ¹⁾	473	575	783
Polyoximethylene (Polyacetal)	max. g POM	643	765	1042
Polyethylene terephthalate	max. g PET	620	738	1005
Polyethylene	max. g PE-LD	393	468	637
	max. g PE-HD	406	483	658
Polypropylene	max. g PP	415	494	672
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	834	992	1350
	max. g ETFE	731	870	1185
Polyvinyl chloride	max. g PVC-U	629	749	1020
	max. g PVC-P ¹⁾	582	692	942

1) average value

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