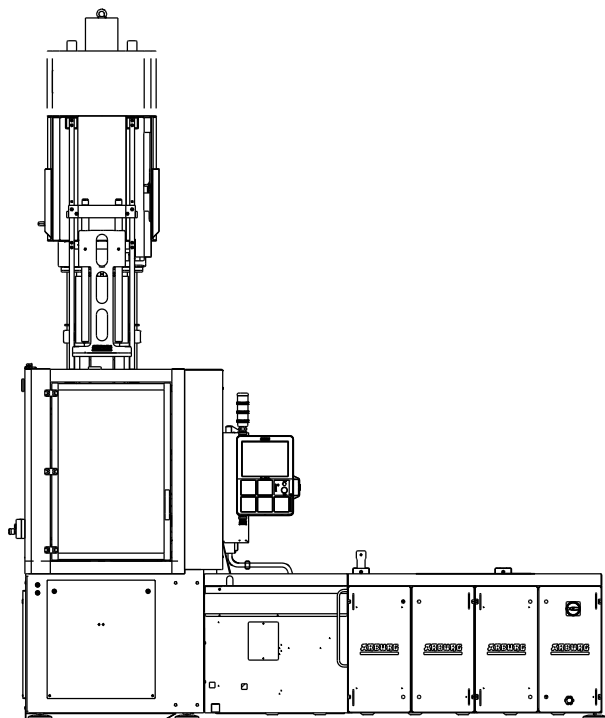




ALLROUNDER 520 V

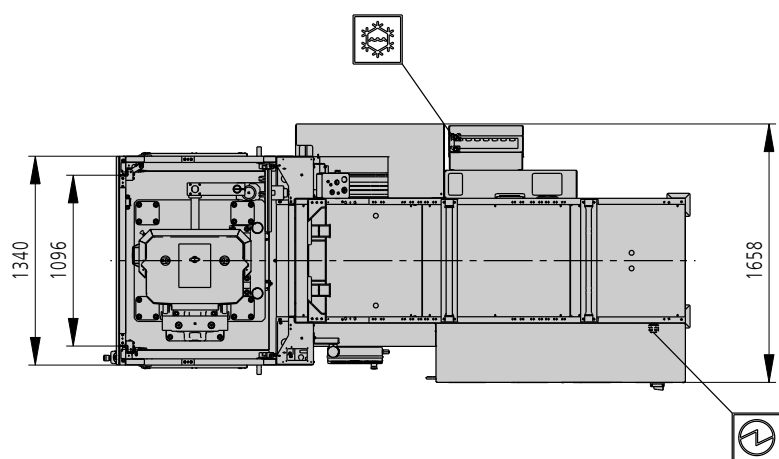
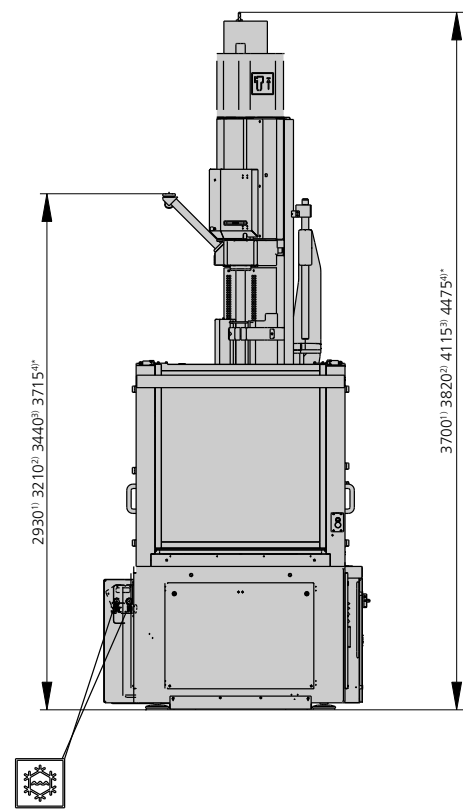
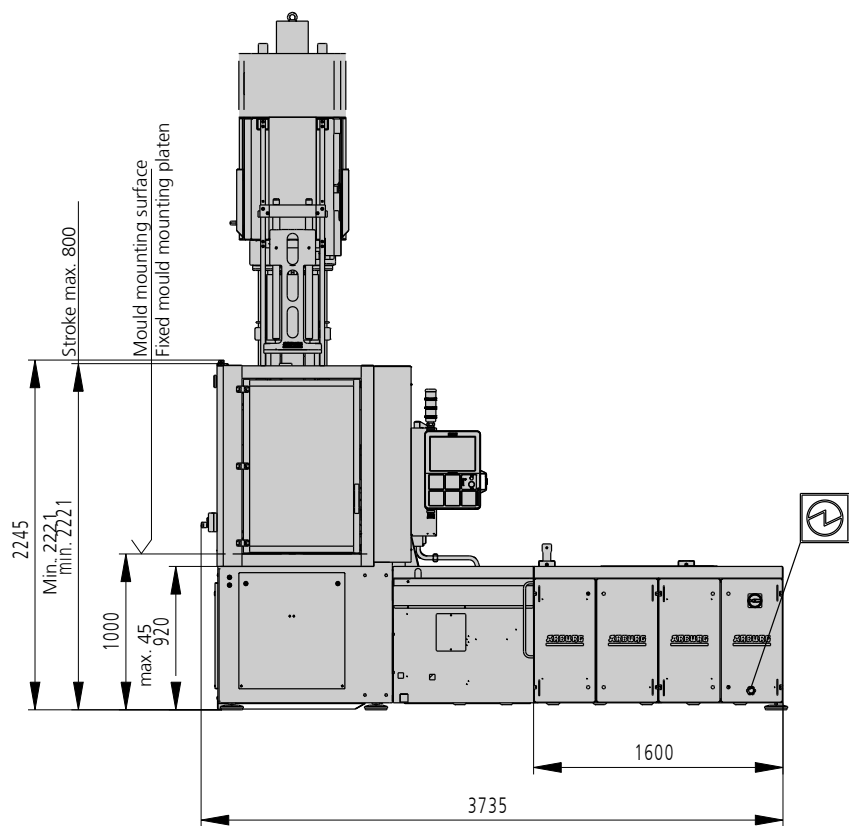
Distance between tie bars: 520 x 520 mm

Clamping force: 1600, 2000 kN

Injection unit (according to EUROMAP): 170, 290, 400, 800

ARBURG

INSTALLATION DIMENSIONS | 520 V

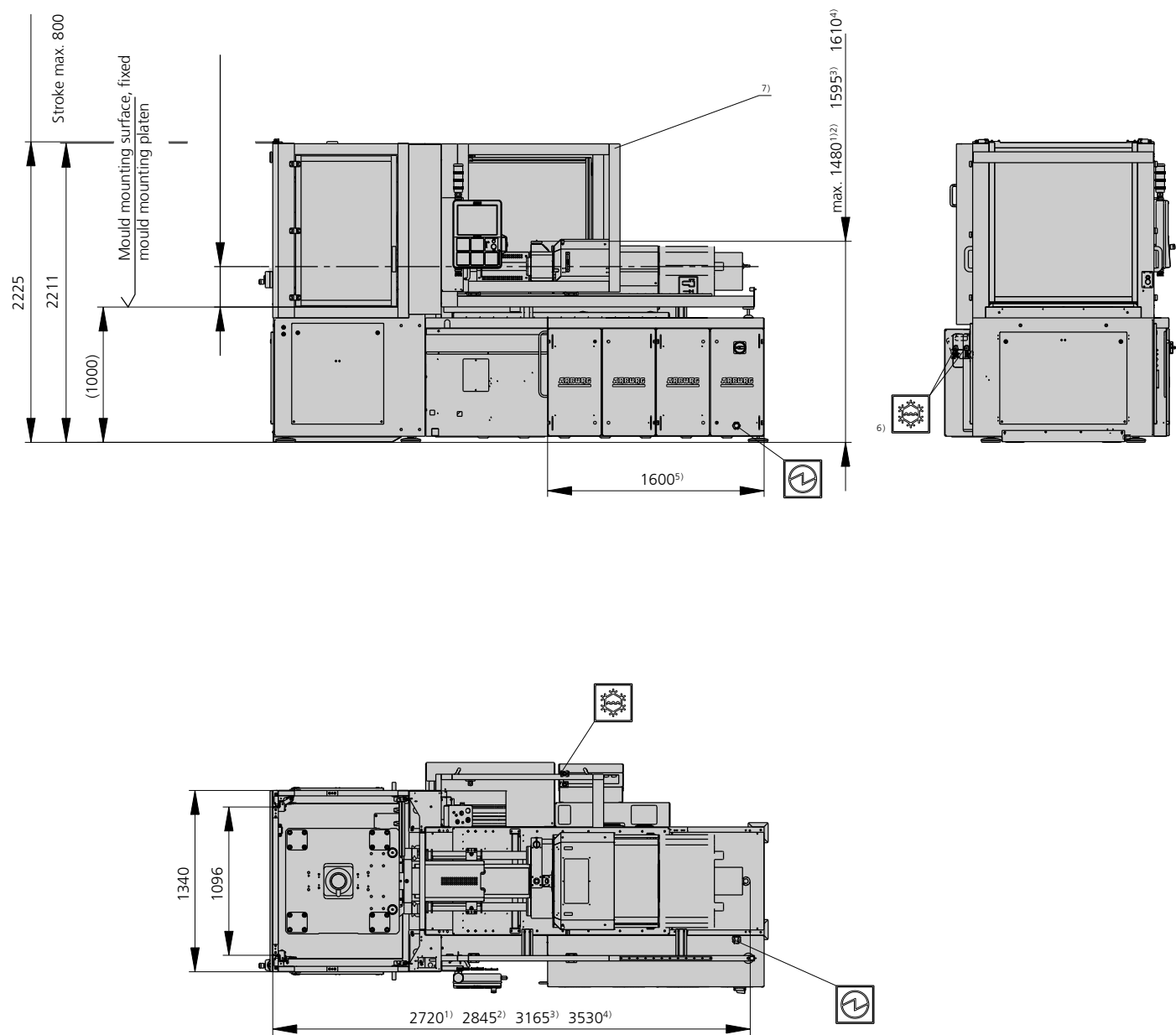


- Electrical connection ⁵⁾
- Cooling water connection ⁶⁾

1) Injection unit 170
 2) Injection unit 290
 3) Injection unit 400
 4) Injection unit 800
 5) The control cabinet length and position of the electrical connection can vary due to optional equipment
 6) Position of cooling water connections can vary due to optional equipment
 * Dimensions relate to a min. mould installation height of 400 mm.
 If a larger size is used, the dimensions will increase accordingly.
 If ARBURG electro-mechanical dosage (AED) is used, the total height will be different.

INSTALLATION DIMENSIONS | 520 V

Horizontal version



- 1) Injection unit 170
- 2) Injection unit 290
- 3) Injection unit 400
- 4) Injection unit 800
- 5) The control cabinet length and position of the electrical connection can vary due to optional equipment
- 6) Position of cooling water connections can vary due to optional equipment
- 7) 1-2) Additional protection

TECHNICAL DATA | 520 V

Clamping unit		520 V
with clamping force	max. kN	1600
Opening force stroke	max. kN mm	105 300
Mould height, fixed variable	min. mm	400 ---
Platen daylight fixed variable	max. mm	700 ---
Distance between tie bars (w x h)	mm	520 x 520
Mould mounting platens (w x h)	mm	780 x 780
Weight of movable mould half	max. kg	500
Ejector force stroke	max. kN mm	45 175
Dry cycle time EUROMAP ²	min. s - mm	--- - ---

Injection unit		170			290			400		
with screw diameter	mm	25	30	35	30	35	40	35	40	45
Effective screw length	L/D	24	20	17	23,3	20	17,5	23	20	18
Screw stroke	max. mm	120			150			160		
Calculated stroke volume	max. cm ³	59	85	115	106	144	188	154	201	254
Shot weight	max. g PS	54	77	105	97	132	172	141	184	232
Material throughput	max. kg/h PS	10	13,5	16	17	20,5	24,5	25	29	35
	max. kg/h PA6.6	5	7	8	8,5	10,5	12,5	12,5	15	17,5
Injection pressure	max. bar	2500	2000	1470	2500	2000	1530	2500	2000	1580
Holding pressure	max. bar	2500	2000	1470	2500	2000	1530	2500	2000	1580
Injection flow ²	max. cm ³ /s	66	96	132	72	100	130	128	168	212
Screw circumferential speed ²	max. m/min	35	42	49	33	39	44	47	53	60
Screw torque	max. Nm	210	250	290	320	380	430	480	550	610
Nozzle contact force retraction stroke	max. kN mm	50 300			60 300			60 400		
Heating capacity zones	kW	9,4 5			6,4 5			9,4 5		
Feed hopper	l	25			25			50		

Drive and connection							
with injection unit					170	290	400
Net weight of machine	kg				6000	6000	6300
Sound press. level Insecurity ⁴	dB(A)				71 3		
Oil filling	l				260		
Drive power ²	max. kW				22	22	30
Electrical connection ³	kW				36	36	55
	Total				100		
	Machine				---		
	Heating				---		
Cooling water connection	max. °C				25		
	min. Δp bar				1,5 DN 25		

Machine type	
with EUROMAP size designation ¹	
520 V 1600-170 290 400	

Upon request: other machine models and mould installation heights, plasticising 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) - large injection unit = max. stroke volume (cm³) x max. injection pressure (kbar)
 - 2) Specifications depend on the drive variant / drive configuration.
 - 3) Specifications relate to 400 V/50 Hz.
 - 4) Emission sound pressure level at the workplace. Detailed info in the operating instructions.
- [] Specifications apply to alternative equipment.

TECHNICAL DATA | 520 V

Clamping unit		520 V
with clamping force	max. kN	2000
Opening force stroke	max. kN mm	105 300
Mould height, fixed variable	min. mm	400 ---
Platen daylight fixed variable	max. mm	700 ---
Distance between tie bars (w x h)	mm	520 x 520
Mould mounting platens (w x h)	mm	780 x 780
Weight of movable mould half	max. kg	500
Ejector force stroke	max. kN mm	45 175
Dry cycle time EUROMAP ²	min. s - mm	--- - ---

Injection unit		400			800		
with screw diameter	mm	35	40	45	45	50	55
Effective screw length	L/D	23	20	18	22	20	18
Screw stroke	max. mm	160			200		
Calculated stroke volume	max. cm ³	154	201	254	318	392	474
Shot weight	max. g PS	141	184	232	291	359	434
Material throughput	max. kg/h PS	25	29	35	46	53	59
	max. kg/h PA6.6	12,5	15	17,5	23	27	30
Injection pressure	max. bar	2500	2000	1580	2470	2000	1650
Holding pressure	max. bar	2500	2000	1580	2470	2000	1650
Injection flow ²	max. cm ³ /s	128	168	212	174	214	260
Screw circumferential speed ²	max. m/min	47	53	60	59	69	79
Screw torque	max. Nm	480	550	610	880		
Nozzle contact force retraction stroke	max. kN mm	60 400			70 400		
Heating capacity zones	kW	9,4 5			19,9 8		
Feed hopper	l	50			50		

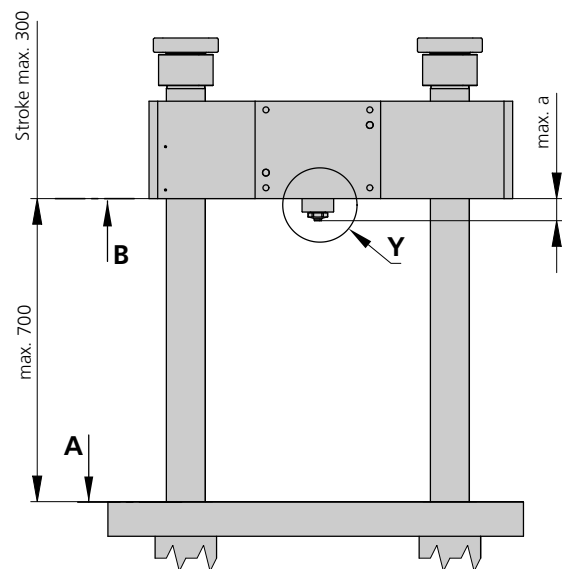
Drive and connection				400	800
with injection unit				400	800
Net weight of machine	kg			6300	6700
Sound press. level Insecurity ⁴	dB(A)			71 3	
Oil filling	l			260	
Drive power ²	max. kW			30	
Electrical connection ³	kW			55	
	Total			100	
	Machine			---	
	Heating			---	
Cooling water connection	max. °C			25	
	min. Δp bar			1,5 DN 25	

Machine type	
with EUROMAP size designation ¹	
520 V 2000-400 800	

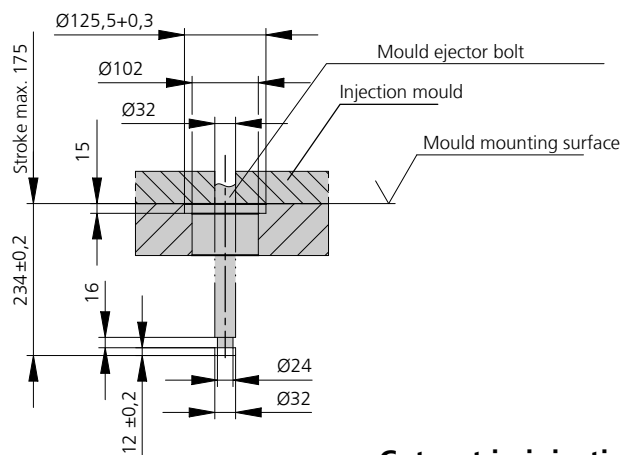
Upon request: other machine models and mould installation heights, plasticising screws, drive powers, etc.
 All specifications relate to the basic machine version. Deviations are possible depending on variants, process settings and material type. Depending on the drive, certain combinations, e.g. max. injection pressure and max. injection flow may be mutually exclusive.

- 1) Clamping force (kN) - large injection unit = max. stroke volume (cm³) x max. injection pressure (kbar)
 - 2) Specifications depend on the drive variant / drive configuration.
 - 3) Specifications relate to 400 V/50 Hz.
 - 4) Emission sound pressure level at the workplace. Detailed info in the operating instructions.
- [] Specifications apply to alternative equipment.

MOULD INSTALLATION DIMENSIONS | 520 V

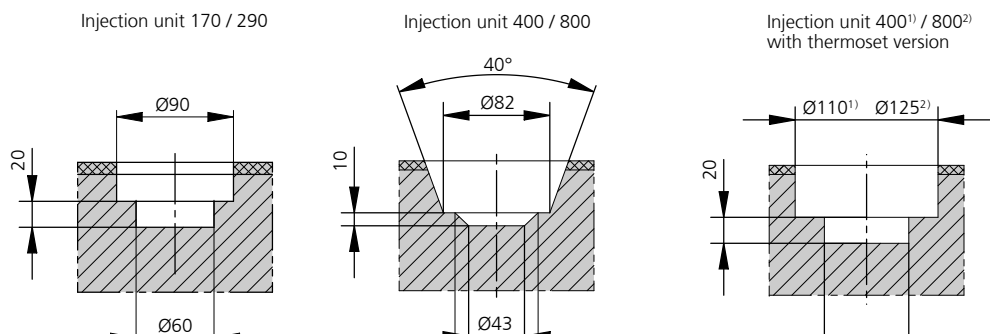


Ejector bolt



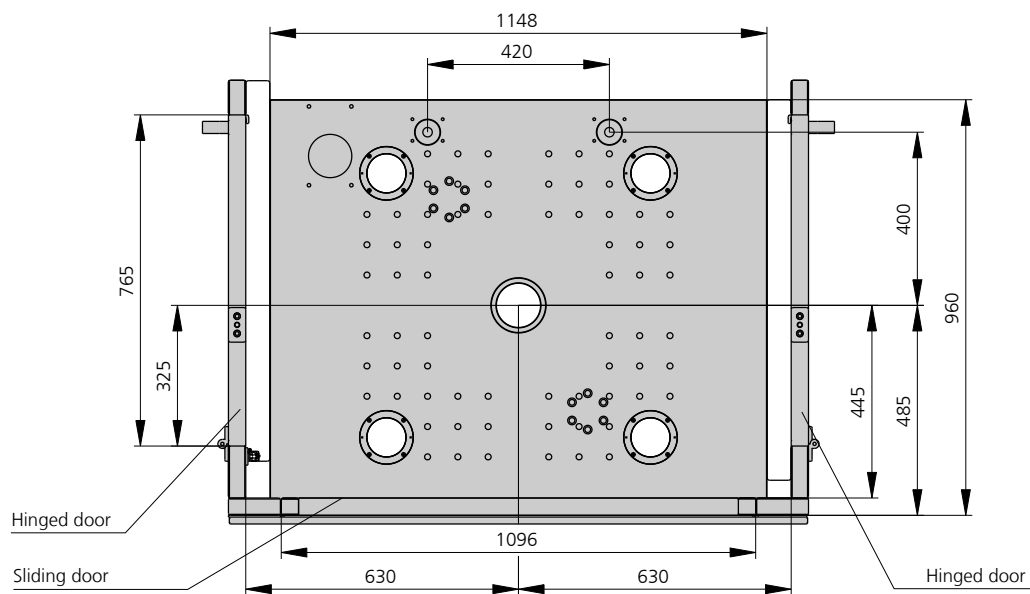
a max.	Injection position for injection unit			
	170	290	400	800
Standard	35		50	
Thermoset	15		50	

Cut-out in injection mould (if required) | Y

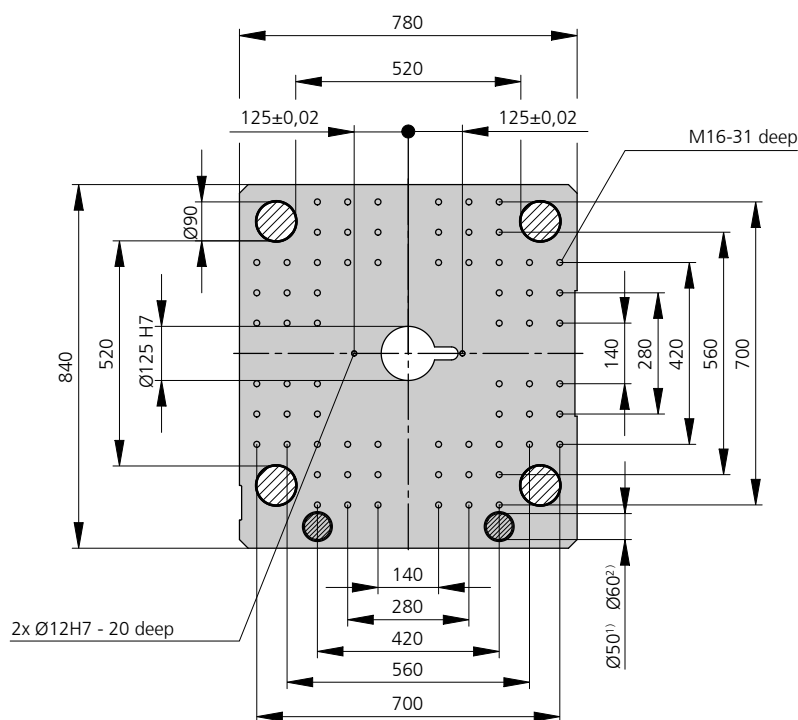


MOULD INSTALLATION DIMENSIONS | 520 V

Fixed mould mounting platen | A



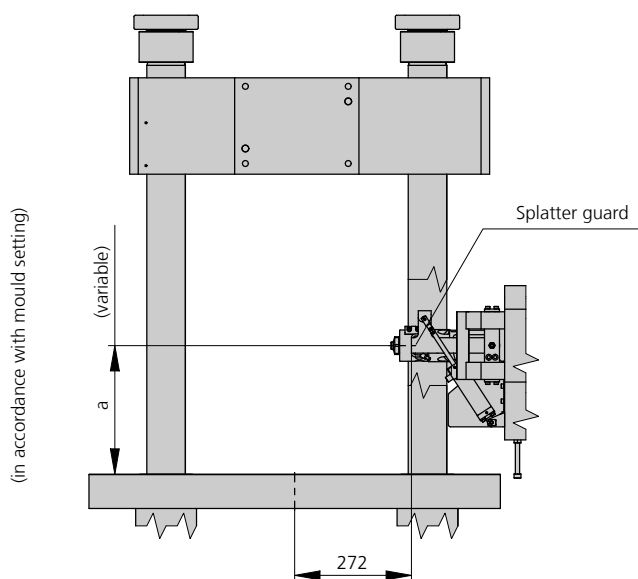
Moving mould mounting platen | B



1) Injection unit 170/290
2) Injection unit 400/800

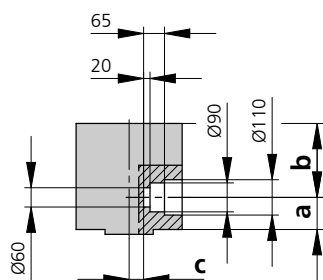
MOULD INSTALLATION DIMENSIONS | 520 V

Horizontal version

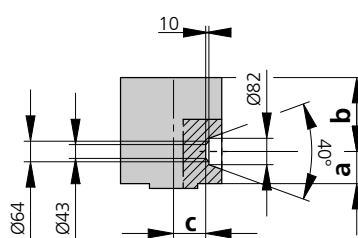


	Injection position for injection unit			
	170	290	400	800
a min.	200		300	
a max.	320		400	500
b min.	100			120
c min.	200		220	

Injection unit 170 / 290



Injection unit 400 / 800



SHOT WEIGHTS | 520 V

Injection units according to EUROMAP		170			290			400		
Screw diameter	mm	25	30	35	30	35	40	35	40	45
Polystyrene	max. g PS	54	77	105	97	132	172	141	184	232
Styrene heteropolymerizates	max. g SB	53	76	103	95	129	168	137	179	227
	max. g SAN, ABS ¹⁾	52	74	101	93	126	165	135	176	223
Cellulose acetate	max. g CA ¹⁾	61	87	119	109	148	194	158	207	262
Celluloseacetobutyrate	max. g CAB ¹⁾	56	81	110	101	138	180	147	192	243
Polymethyl methacrylate	max. g PMMA	56	80	109	100	136	178	145	190	240
Polyphenylene ether, mod.	max. g PPE	50	72	98	90	122	160	131	171	216
Polycarbonate	max. g PC	57	81	111	102	139	181	148	193	244
Polysulphone	max. g PSU	58	84	115	105	143	187	153	199	252
Polyamides	max. g PA 6.6 PA 6 ¹⁾	53	77	104	96	131	171	140	183	231
	max. g PA 6.10 PA 11 ¹⁾	50	72	98	90	122	160	131	171	216
Polyoximethylene (Polyacetal)	max. g POM	66	96	130	120	163	213	174	227	287
Polyethylene terephthalate	max. g PET	64	92	126	115	157	205	167	219	277
Polyethylene	max. g PE-LD	41	59	80	73	100	130	106	139	176
	max. g PE-HD	42	60	82	76	103	134	110	143	181
Polypropylene	max. g PP	43	62	84	77	105	137	112	146	185
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	86	124	169	155	211	276	225	294	372
	max. g ETFE	76	109	148	136	185	242	196	256	324
Polyvinyl chloride	max. g PVC-U	65	94	127	117	159	208	170	222	281
	max. g PVC-P ¹⁾	60	87	118	108	147	192	157	205	260

Injection units according to EUROMAP		800				
Screw diameter	mm	45	50	55		
Polystyrene	max. g PS	291	359	434		
Styrene heteropolymerizates	max. g SB	284	350	424		
	max. g SAN, ABS ¹⁾	278	344	416		
Cellulose acetate	max. g CA ¹⁾	327	404	488		
Celluloseacetobutyrate	max. g CAB ¹⁾	304	375	454		
Polymethyl methacrylate	max. g PMMA	300	371	449		
Polyphenylene ether, mod.	max. g PPE	270	333	403		
Polycarbonate	max. g PC	305	377	456		
Polysulphone	max. g PSU	316	390	471		
Polyamides	max. g PA 6.6 PA 6 ¹⁾	289	357	431		
	max. g PA 6.10 PA 11 ¹⁾	270	333	403		
Polyoximethylene (Polyacetal)	max. g POM	359	443	536		
Polyethylene terephthalate	max. g PET	346	427	517		
Polyethylene	max. g PE-LD	219	271	328		
	max. g PE-HD	227	280	339		
Polypropylene	max. g PP	232	286	346		
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	465	574	695		
	max. g ETFE	408	504	609		
Polyvinyl chloride	max. g PVC-U	351	434	525		
	max. g PVC-P ¹⁾	324	401	485		

1) average value

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