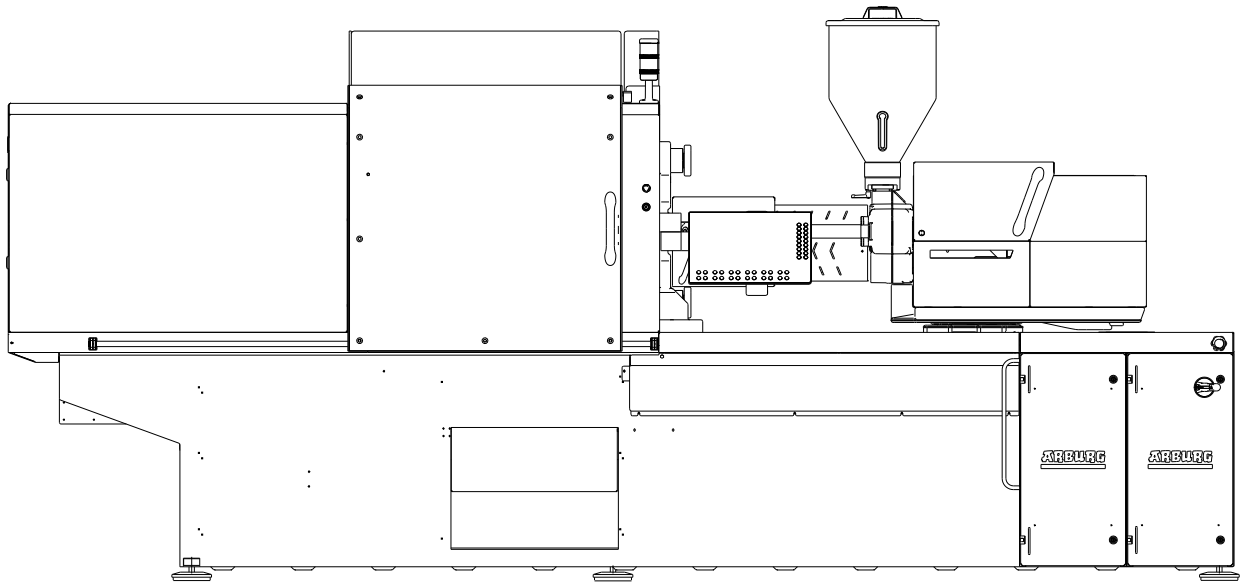




ALLROUNDER 520 S

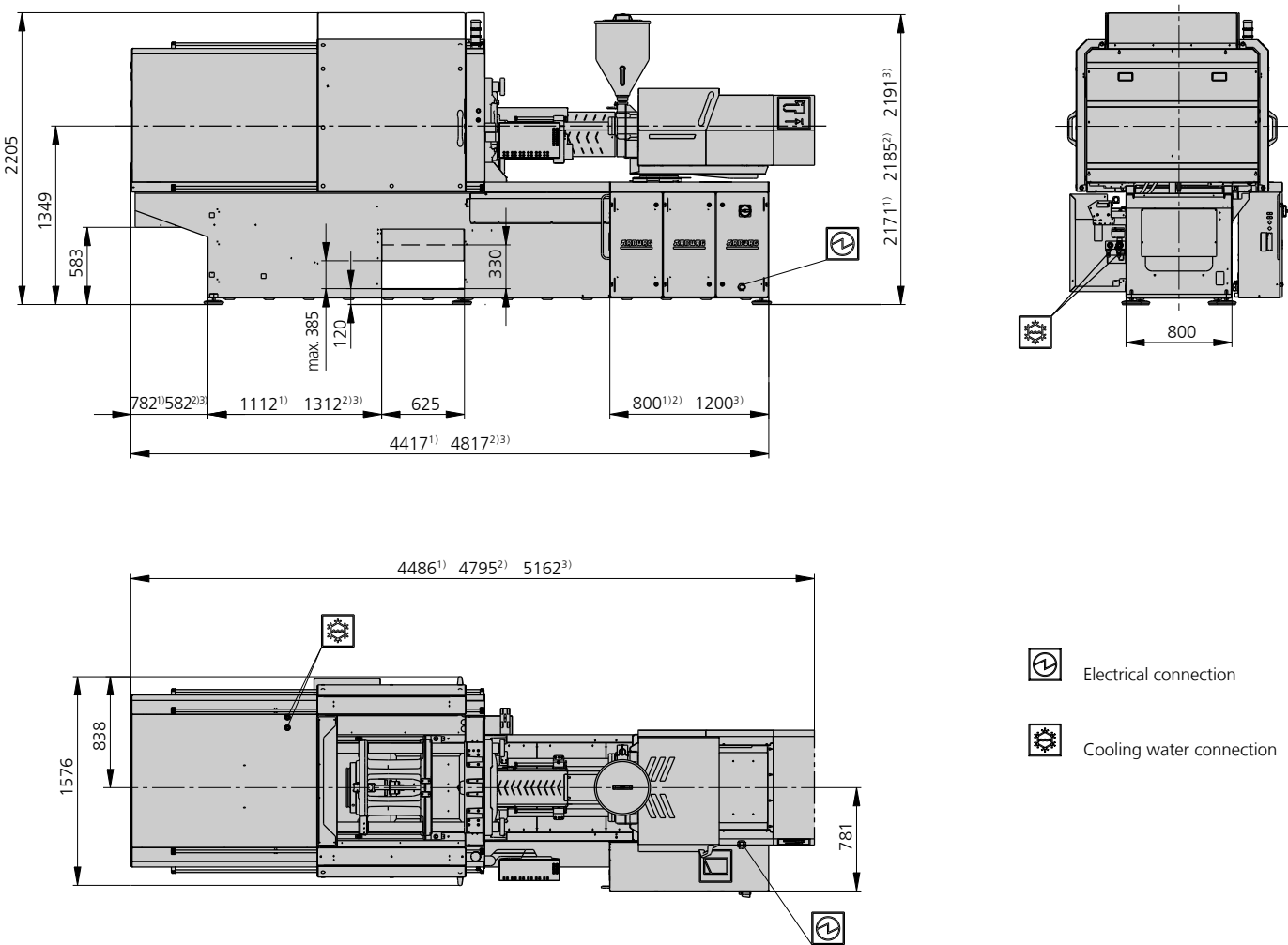
Distance between tie bars: 520 x 520 mm

Clamping force: 1300, 1500, 1600 kN

Injection unit (acc. to EUROMAP): 290, 400, 800

ARBURG

MACHINE DIMENSIONS | 520 S



1) injection unit 290
2) injection unit 400
3) injection unit 800

TECHNICAL DATA | 520 S

Clamping unit			520 S		
with clamping force	max. kN		1300	1500	1600
Opening force stroke	max. kN mm		365 575		
Mould height, fixed variable	min. mm		250 ---		
Platen daylight fixed variable	max. mm		825 ---		
Distance between tie bars (w x h)	mm		520 x 520		
Mould mounting platens (w x h)	max. mm		695 x 695		
Weight of movable mould half	max. kg		1050		
Ejector force stroke	max. kN mm		50 175		
Dry cycle time EUROMAP ²	1 pump	min. s - mm	2,5 - 364		
	2 pumps	min. s - mm	1,9 - 364		
	Accum.	min. s - mm	1,7 - 364		

Injection unit			290			400			800		
with screw diameter	mm		30	35	40	35	40	45	45	50	55
Effective screw length	L/D		23,3	20	17,5	23	20	18	22	20	18
Screw stroke	max. mm		150			160			200		
Calculated stroke volume	max. cm ³		106	144	188	154	201	254	318	392	474
Shot weight	max. g PS		97	132	172	141	184	232	291	359	434
Material throughput	max. kg/h PS		17	20,5	24,5	25	29	35	46	53	59
	max. kg/h PA6.6		8,5	10,5	12,5	12,5	15	17,5	23	27	30
Injection pressure	max. bar		2500	2000	1530	2500	2000	1580	2470	2000	1650
Holding pressure	max. bar		2500	2000	1530	2500	2000	1580	2470	2000	1650
Injection flow ²	1 pump	max. cm ³ /s	130	178	232	128	168	212	174	214	260
	2 pumps	max. cm ³ /s	130	178	232	128 160	168 210	212 266	174	214	260
	Accum.	max. cm ³ /s	316	430	562	492	642	814	530	656	792
Screw circumferential speed ²	1 pump	max. m/min	51	60	69	47	53	60	54	60	66
	2 pumps	max. m/min	51	60	69	47 53	53 60	60 68	54	60	66
	Accum.	max. m/min	20	24	27	16	18	21	15	17	19
Screw torque	max. Nm		320	380	430	480	550	610	880		
Nozzle contact force retraction stroke	max. kN mm		60 240			60 300			70 300		
Heating capacity zones	kW		7,7 5			9,7 5			19,9 8		
Feed hopper	l		50			50			50		

Drive and connection			1 pump			2 pumps			Accum.		
with injection unit			290	400	800	290	400	800	290	400	800
Net weight of machine	kg		5600	5900	6350	5600	5900	6350	---		
Sound press. level Insecurity ⁴	dB(A)		70 3			70 3			70 3		
Oil filling	l		180	180	240	180	180	240	180	240	300
Drive power ²	max. kW		22	22	30	30			22	22	30
Electrical connection ³		kW	31	34	52	39	42	52	31	33	52
	Total	A	80	80	100	100	100	125	80	80	125
	Machine	A	63	63	80	80	80	80	63	63	80
	Heating	A	16	20	35	16	20	35	16	20	35
Cooling water connection	max. °C		30			30			30		
	min. Δp bar		1,5 DN 25			1,5 DN 25			1,5 DN 25		

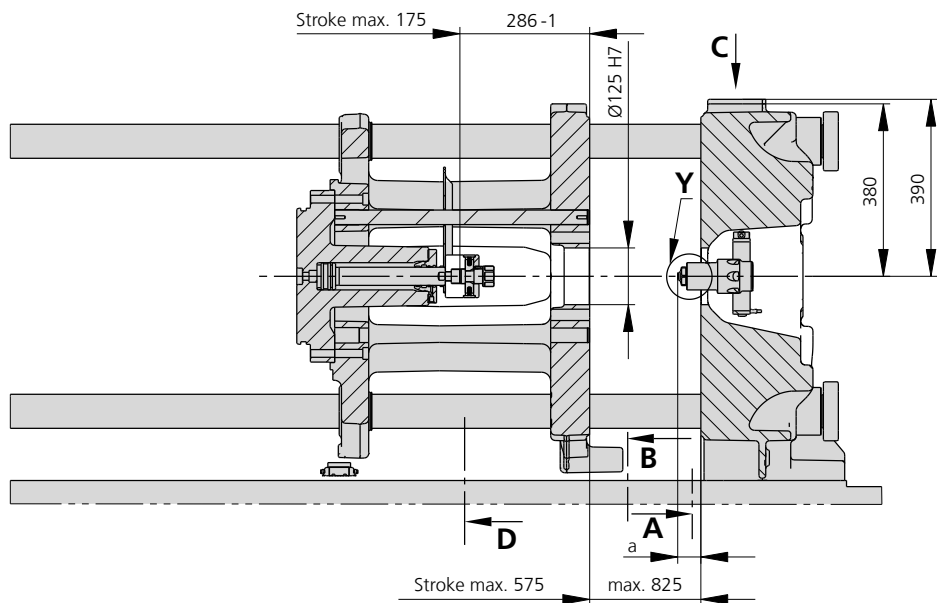
Upon request: other machine types and mould installation heights, screws, drive powers etc.

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) Specifications depend on the drive config. – 1st value applies to the lowest clamping force.
 - 3) Specifications relate to 400 V/50 Hz.
 - 4) Detailed info in the operating instr.
- [] Specifications apply to alternative equipment.

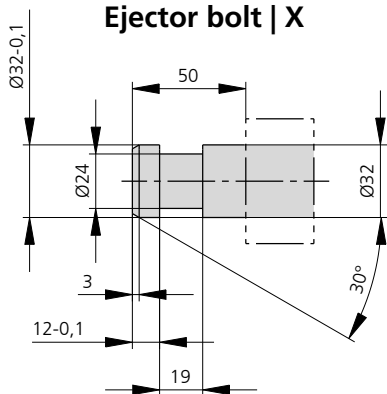
Machine type	
with EUROMAP size designation ¹	Drive
520 S 1300-290 400	1 2 -
520 S 1500-290 400 800	1 2 -
520 S 1600-290 400 800	- 2 Accum.

MOULD INSTALLATION DIMENSIONS | 520 S

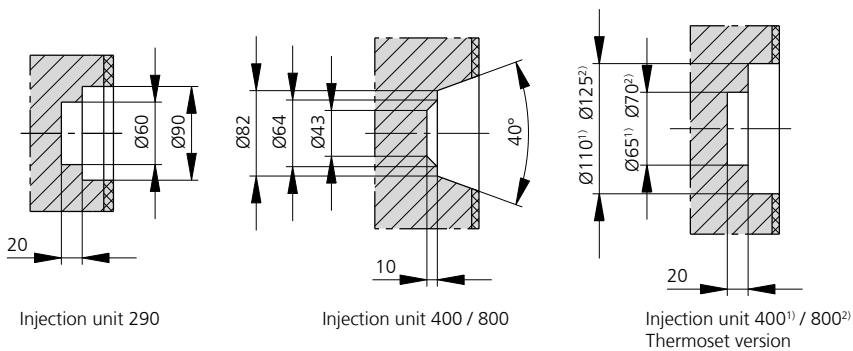


a max.	Injection unit	
	290	400 / 800
Standard	40	50
Thermoset	20	50

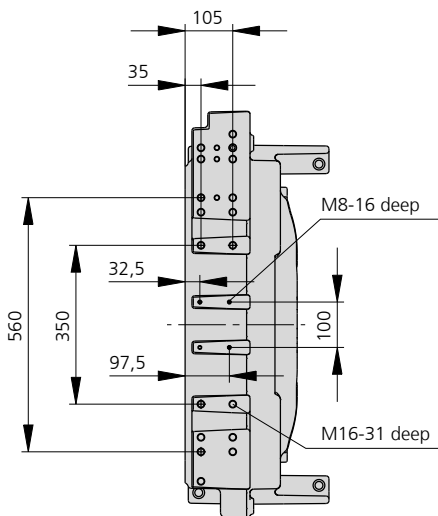
Ejector bolt | X



Bore in mould (if required) | Y

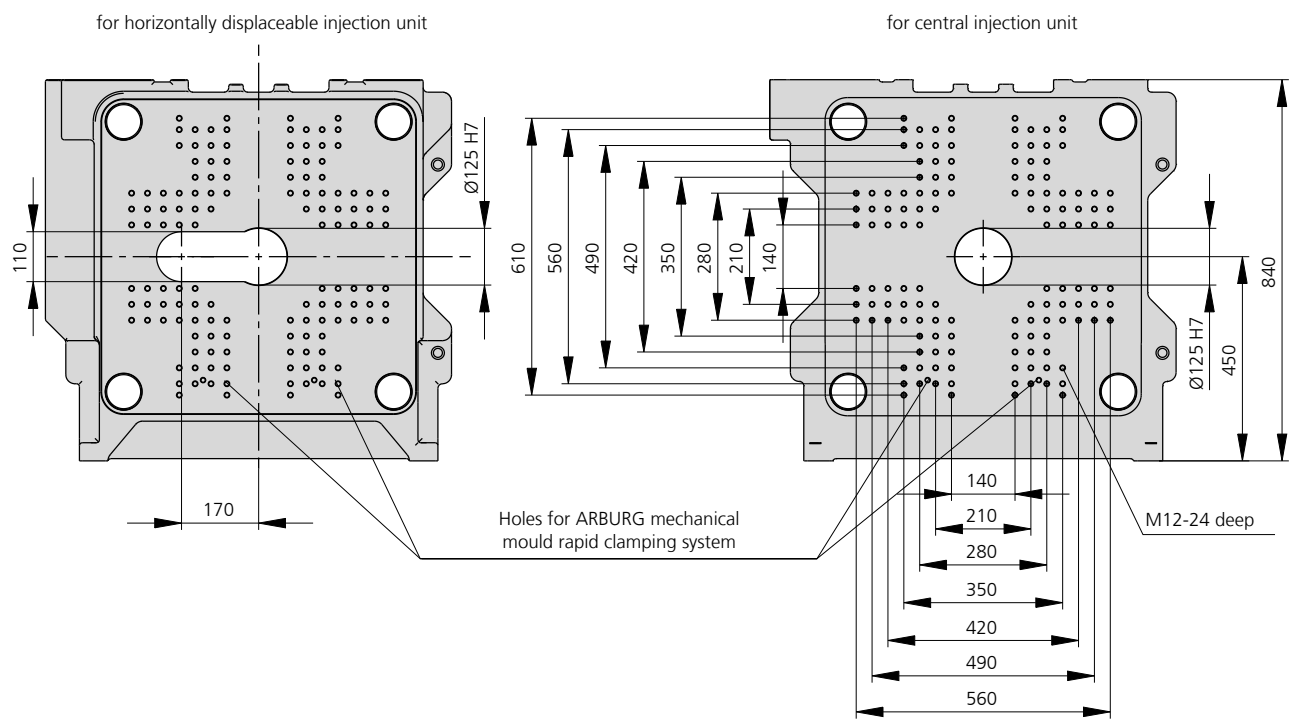


Robotic system mounting | C

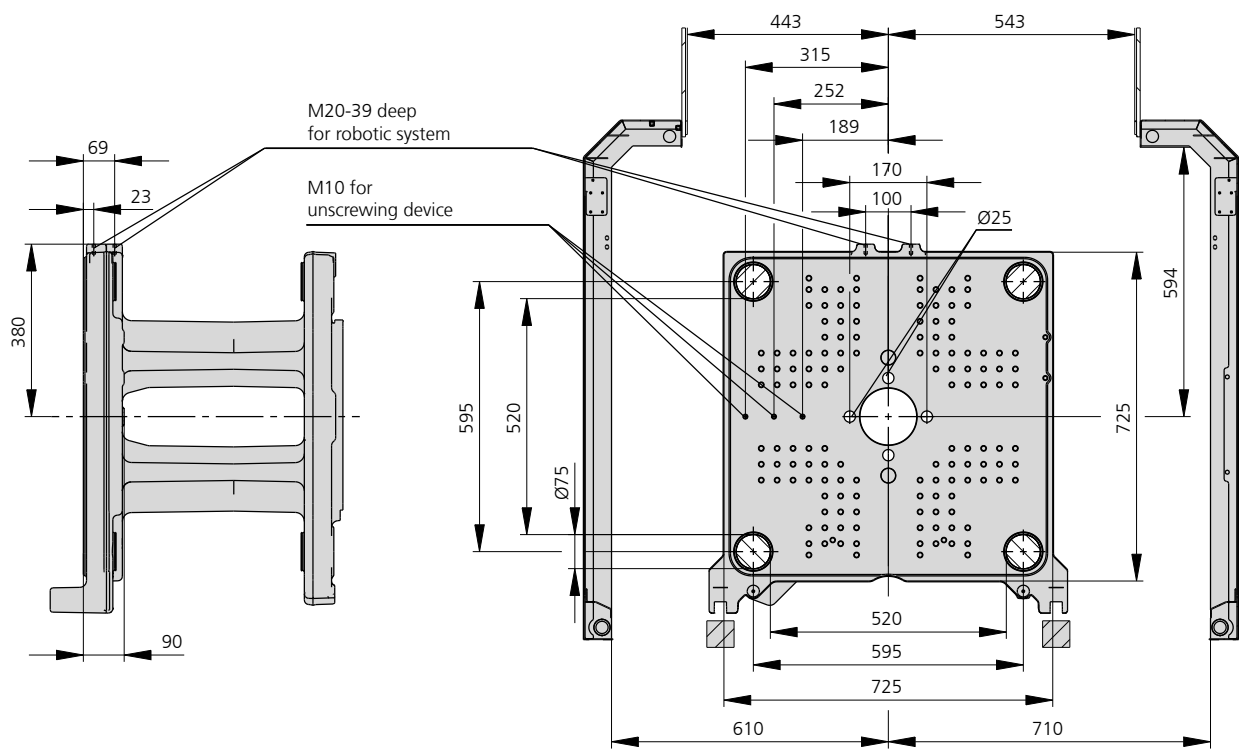


MOULD INSTALLATION DIMENSIONS | 520 S

Fixed mould mounting platen | A



Moving mould mounting platen | B



SHOT WEIGHTS | 520 S

Theoretical shot weights for the most important injection moulding materials

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

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