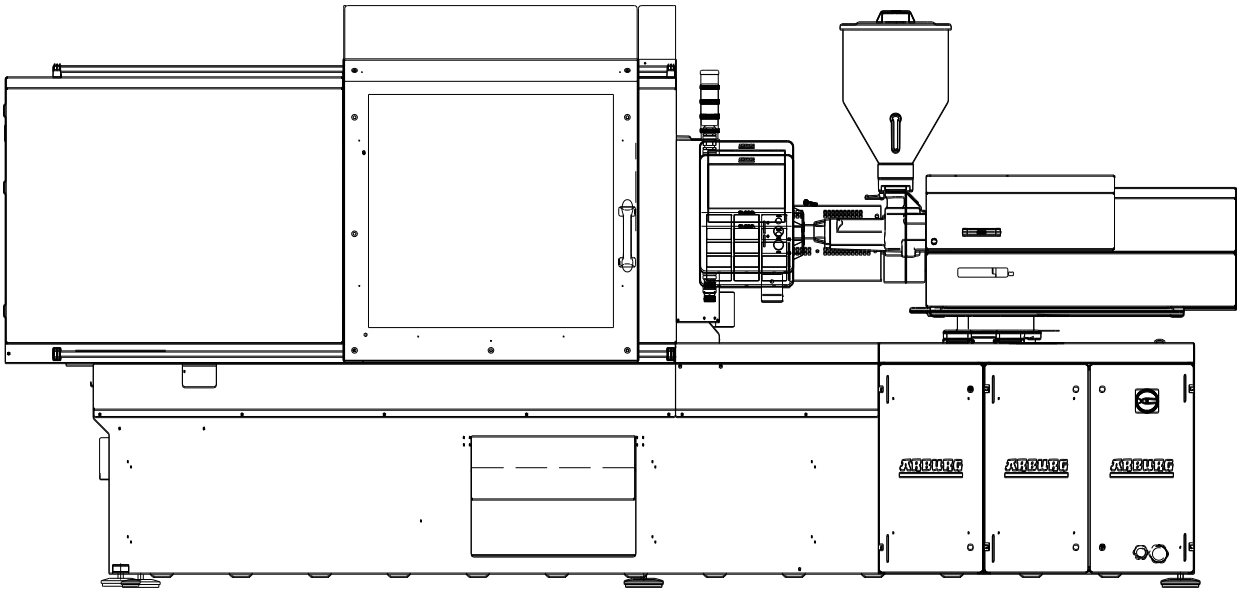


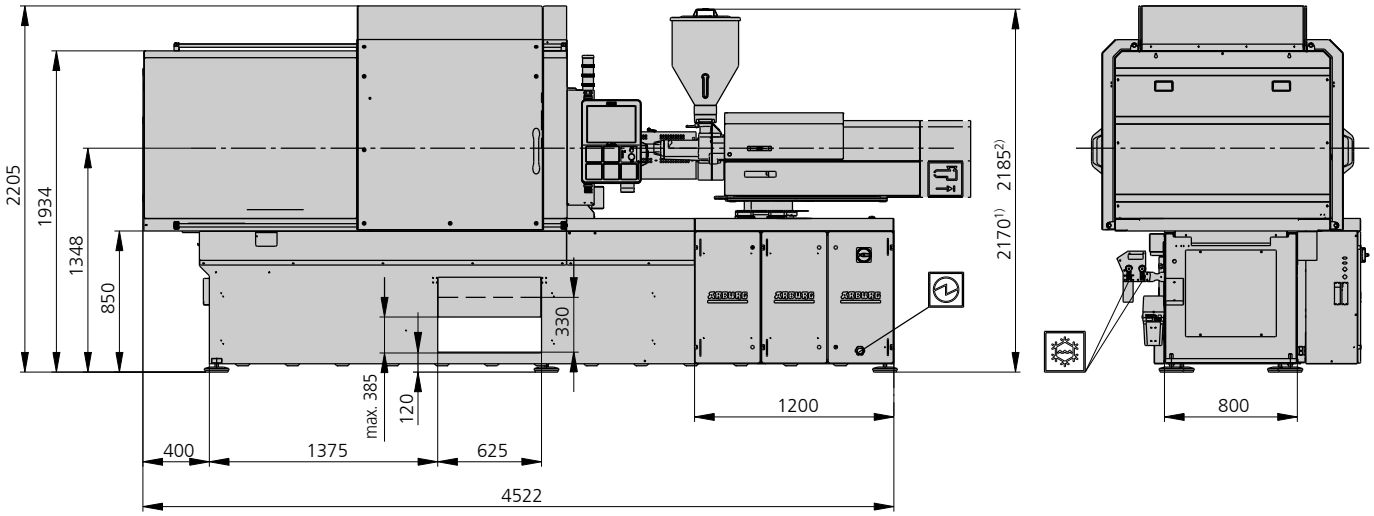
ALLROUNDER 520 E

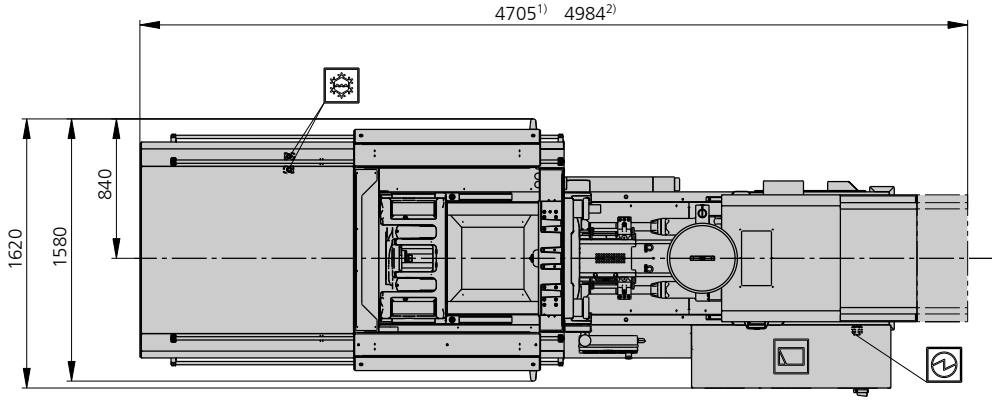
GOLDEN ELECTRIC

Distance between tie bars: 520 x 520 mm
Clamping force: 1500 kN
Injection unit (acc. to EUROMAP): 290, 400

ARBURG

MACHINE DIMENSIONS | 520 E GOLDEN ELECTRIC





Electrical connection

Cooling water connection

1) injection unit 290
2) injection unit 400

TECHNICAL DATA | 520 E GOLDEN ELECTRIC

Clamping unit			**520 E GOLDEN ELECTRIC**
with clamping force	max.	kN	1500
Opening force | stroke	max.	kN | mm	--- | 450
Mould height, fixed | variable	min.-max.	mm	--- | 250-550
Platen daylight fixed | variable	max.	mm	--- | 700-1000
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	1000
Ejector force | stroke	max.	kN | mm	40 | 175
Dry cycle time EUROMAP [2]	min.	s - mm	1,5 - 364

Injection unit			**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.	cm³	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]	max.	cm³/s	98	134	176	126	164	208
	max.	cm³/s	[128]	[176]	[230]	[162]	[214]	[270]
Injection speed [5]	max.	mm/s		140			130	
	max.	mm/s		[180]			[170]	
Screw circumferential speed	max.	m/min	28	33	37	27	31	35
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		6,4 | 5			9,4 | 5	
Feed hopper		l		50			50	

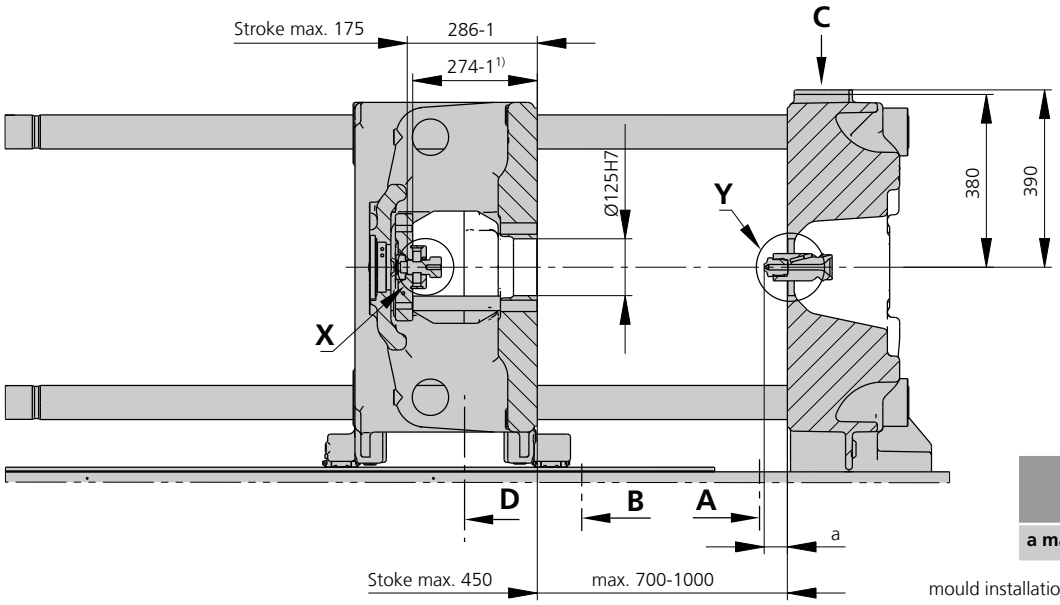
Drive and connection					
with injection unit				290	400
Net weight of machine		kg		6400	6500
Sound press. level | Insecurity [4]		dB(A)			55 | 3
Electrical connection [3]		kW		22	28
	Total	A		63	80
	Machine	A		---	---
	Heating	A		---	---
Cooling water connection	max.	°C			35
	min.	Δp bar			1,5 | DN 25

Machine type
with EUROMAP size designation [1]
520 E GOLDEN ELECTRIC 1500-290 | 400

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) Detailed info in the operating instr.
5) Forward speed of plasticising screw at 1000 bar injection pressure.
[ ] Specifications apply to alternative equipment.

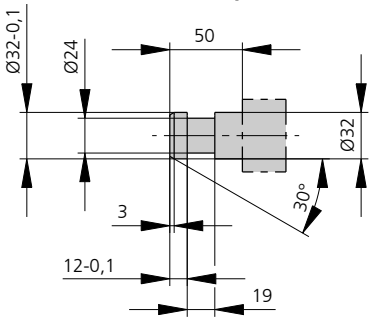
MOULD INSTALLATION DIMENSIONS | 520 E GOLDEN ELECTRIC



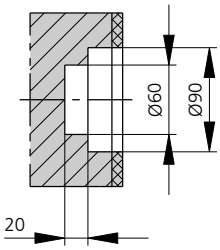
	injection unit	
	290	400
a max.	40	50

mould installation height min. - max. 250-550

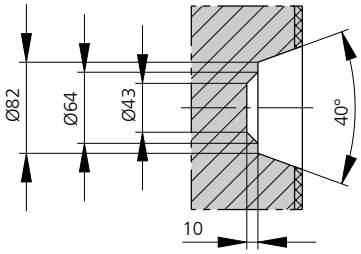
Ejector bolt | X



Bore in mould (if required) | Y

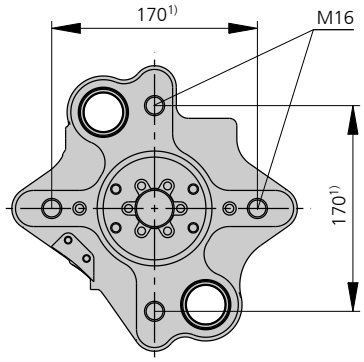


injection unit 290

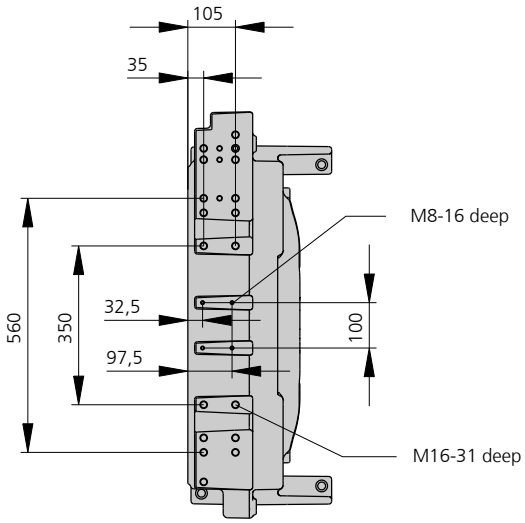


injection unit 400

Ejector plate | D



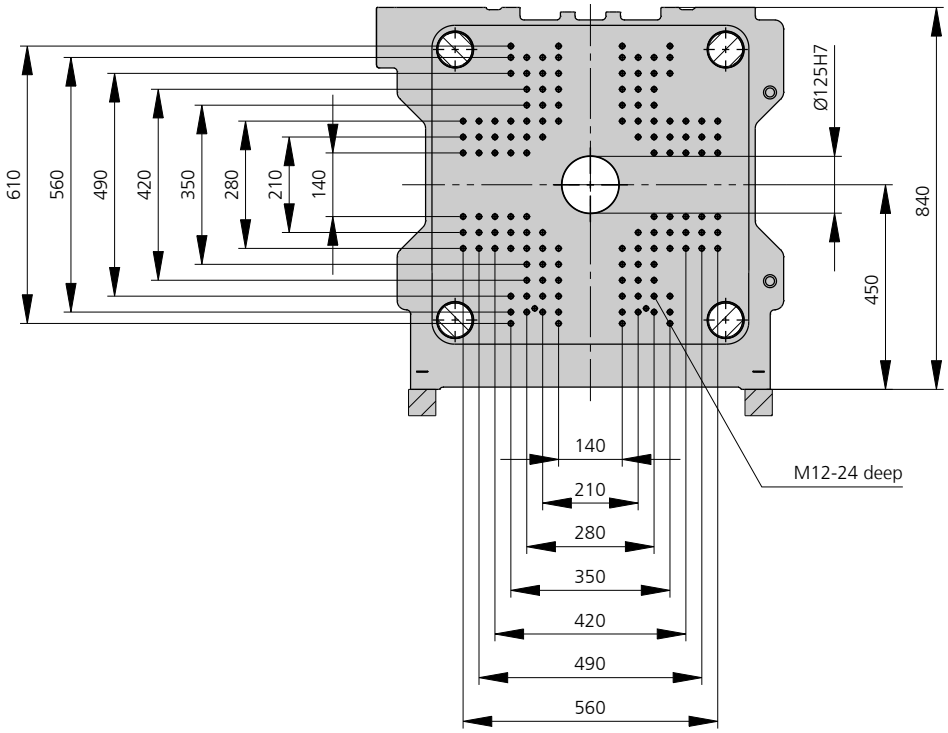
Robotic system mounting | C



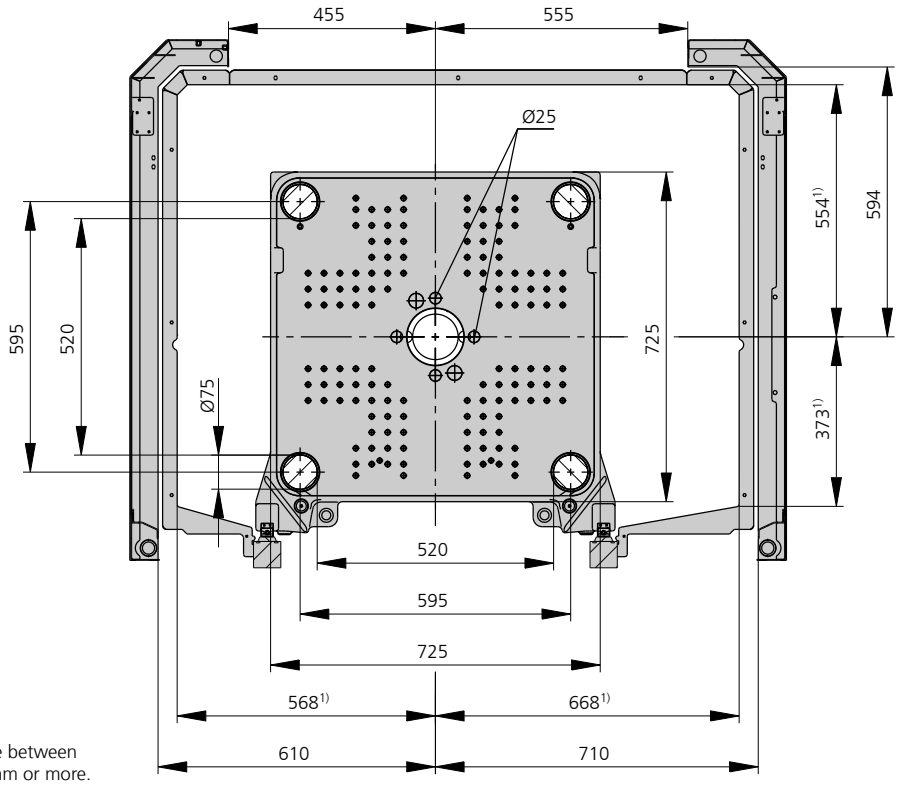
1) Ejector plate position

MOULD INSTALLATION DIMENSIONS | 520 E GOLDEN ELECTRIC

Fixed mould mounting platen | A



Moving mould mounting platen | B



1) Dimensions are valid for a distance between mould mounting platens of 960 mm or more.

SHOT WEIGHTS | 520 E GOLDEN ELECTRIC

Theoretical shot weights for the most important injection moulding materials

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

1) average value

ARBURG GmbH + Co KG
Arthur-Hehl-Strasse
72290 Lossburg
Tel.: +49 7446 33-0
www.arburg.com
contact@arburg.com

681307_EN_GB_092022 · Subject to alterations