

ALLROUNDER 270 H

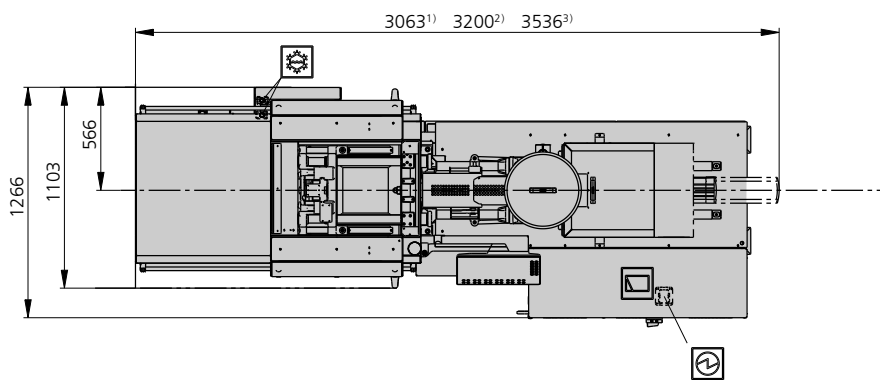
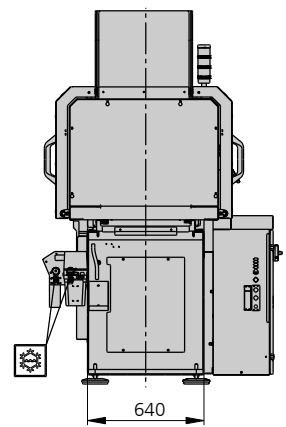
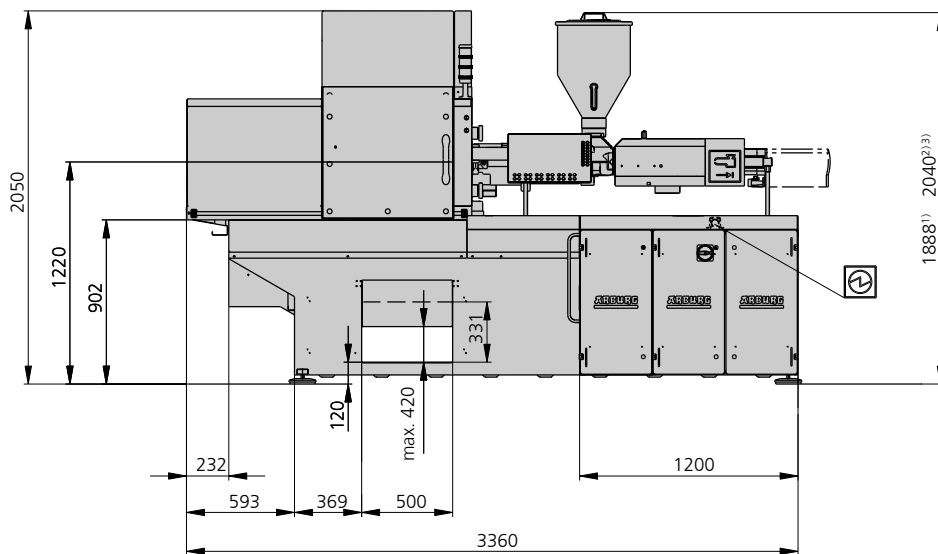
Distance between tie bars: 270 x 270 mm

Clamping force: 350 kN

Injection unit (acc. to EUROMAP): 70, 100, 170

ARBURG

MACHINE DIMENSIONS | 270 H



Electrical connection



Cooling water connection

- 1) Injection unit 70
- 2) injection unit 100
- 3) Injection unit 170

TECHNICAL DATA | 270 H

Clamping unit		270 H
with clamping force	max. kN	350
Opening force stroke	max. kN mm	--- 200
Mould height, fixed variable	min.-max. mm	--- 150-350
Platen daylight fixed variable	max. mm	--- 350-550
Distance between tie bars (w x h)	mm	270 x 270
Mould mounting platens (w x h)	max. mm	380 x 380
Weight of movable mould half	max. kg	200
Ejector force stroke	max. kN mm	16 60
Dry cycle time EUROMAP ²	min. s - mm	0,7 - 189

Injection unit		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	max. bar	2500	2000	1550	2500	2000	1390	2500	2000	1470
Injection flow	max. cm ³ /s	140	209	270	173	270	389	221	318	433
Screw circumferential speed ²	max. m/min	49	60	68	48	60	72	50	60	70
Screw torque ²	max. Nm	90	110	120	120	150	180	210	250	290
Nozzle contact force retraction stroke	max. kN mm	50 150			50 180			50 210		
Heating capacity zones	kW	4,1 4			4,9 5			9,4 5		
Feed hopper	l	25			50			50		

Drive and connection		70	100	170
with injection unit				
Net weight of machine	kg	2480	2500	2700
Sound press. level Insecurity ⁴	dB(A)	63 3		
Oil filling	l	135		
Drive power ²	max. kW	---		
Electrical connection ³	kW	15	19	25
	Total	50	63	80
	Machine	---		
	Heating	---		
Cooling water connection	max. °C	30		
	min. Δp bar	1,5 DN 25		

Machine type
with EUROMAP size designation ¹
270 H 350-70 | 100 | 170

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)

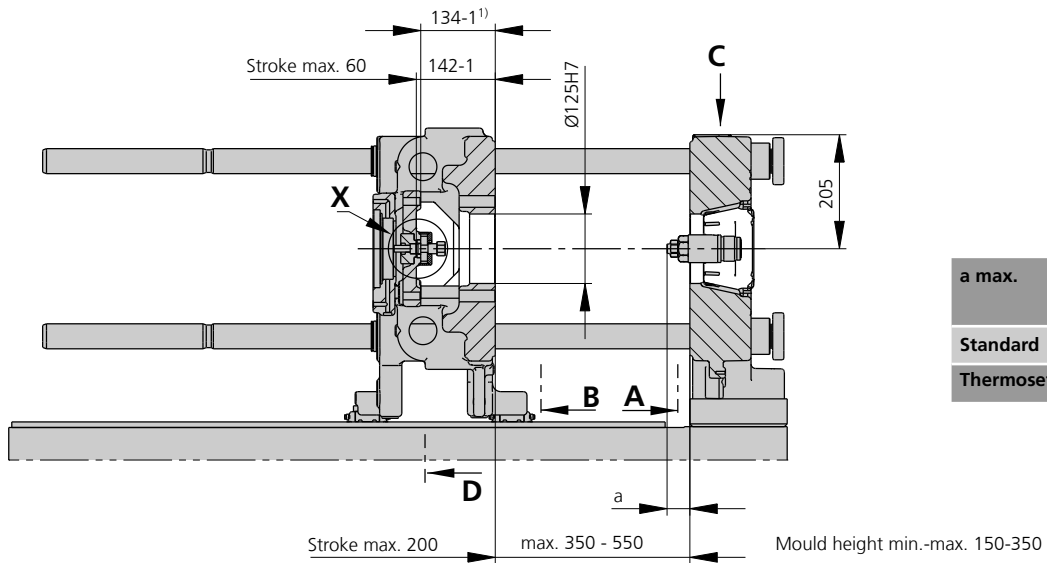
2) Specifications depend on the drive variant / drive configuration.

3) Specifications relate to 400 V/50 Hz.

4) Detailed info in the operating instr.

[] Specifications apply to alternative equipment.

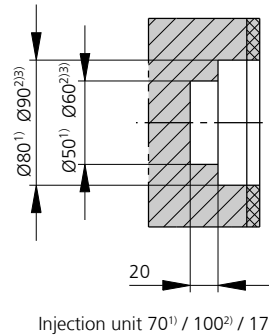
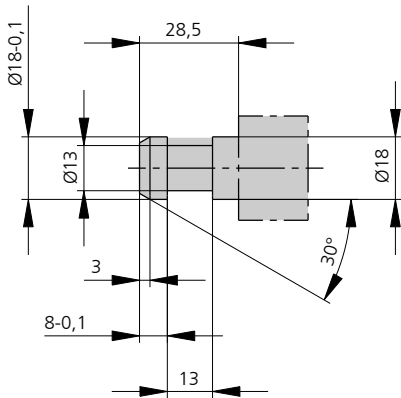
MOULD INSTALLATION DIMENSIONS | 270 H



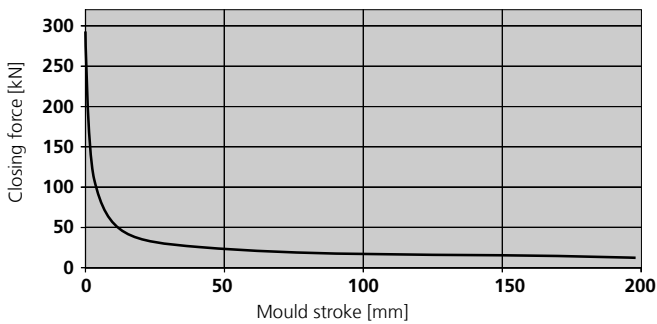
a max.	Injection unit
	70 / 100 / 170
Standard	40
Thermoset	20

Ejector bolt | X

Bore in mould (if required) | Y



Closing force for spring moulds / during injection compression moulding*

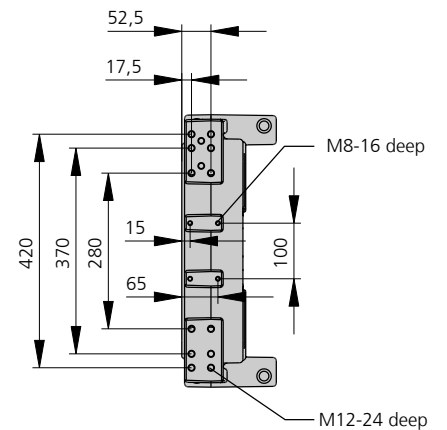
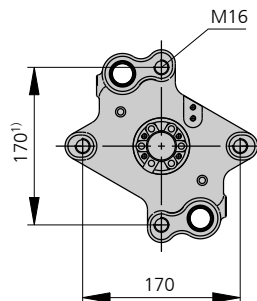


* automatic locking force adjustment up to 20 kN

1) Ejector plate position

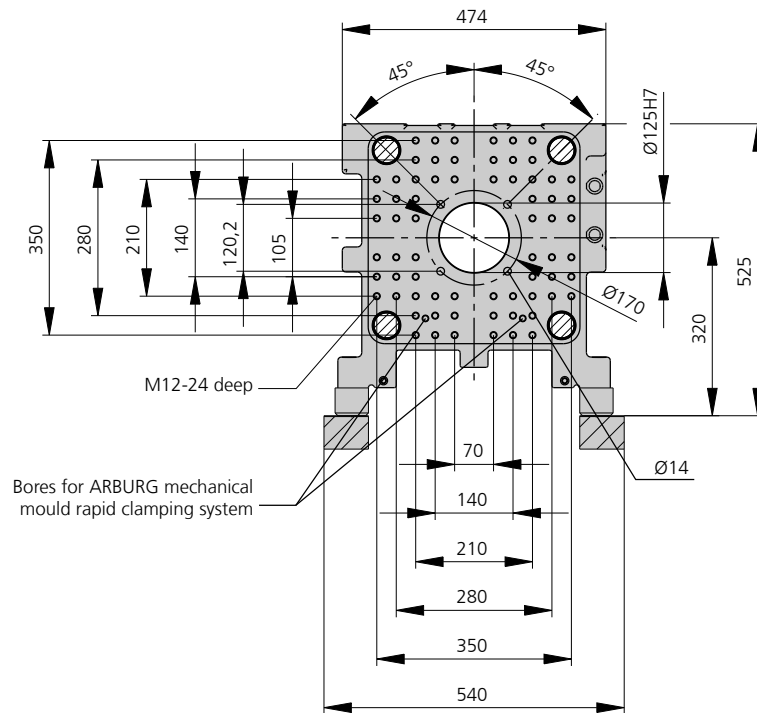
Ejector plate | D

Robotic system mounting | C

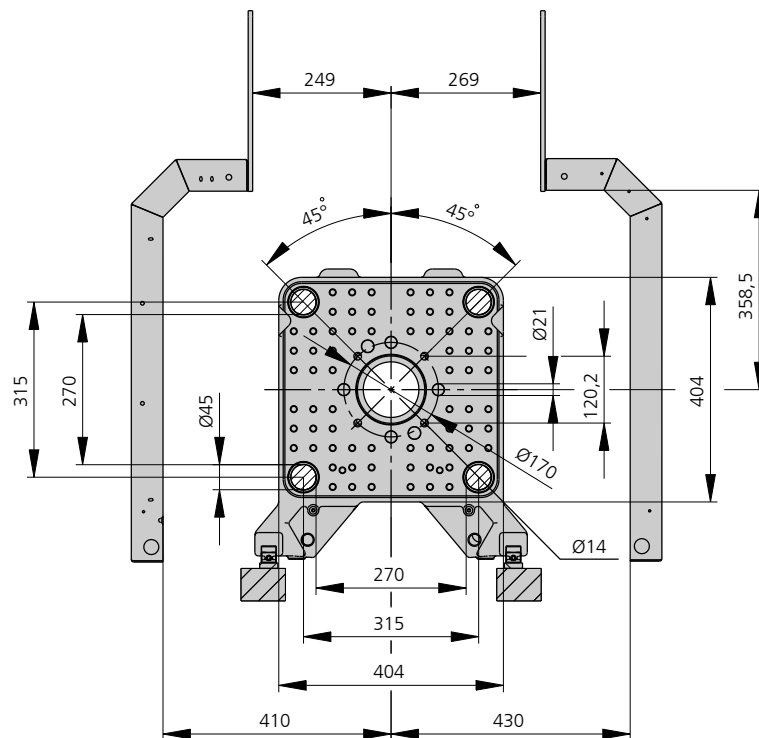


MOULD INSTALLATION DIMENSIONS | 270 H

Fixed mould mounting platen | A



Moving mould mounting platen | B



SHOT WEIGHTS | 270 H

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

1) average value

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