

## ALLROUNDER 170 S

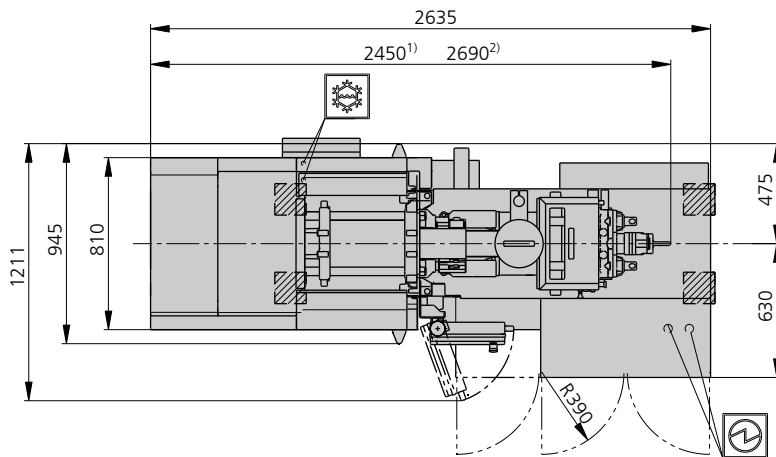
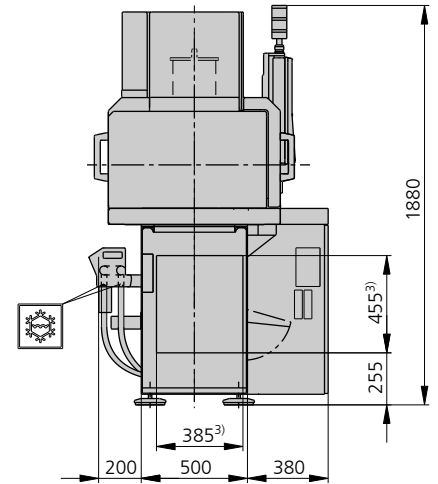
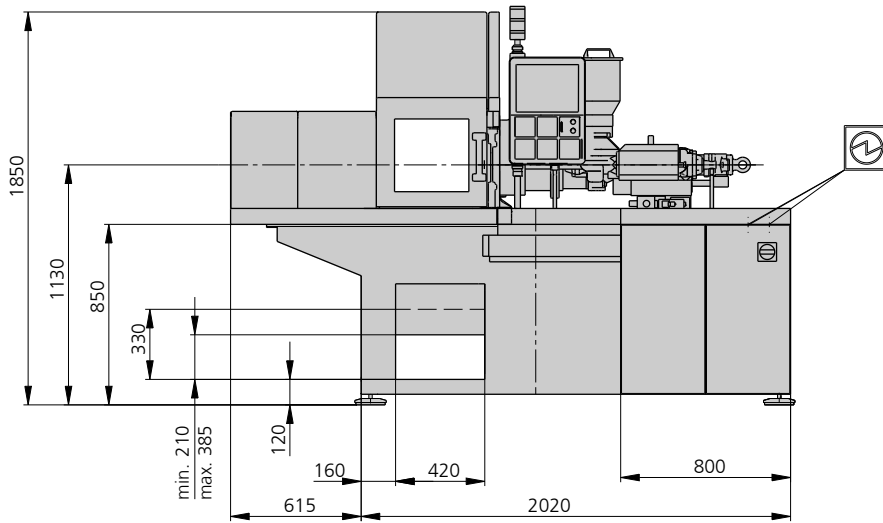
Distance between tie bars: 170 x 170 mm

Clamping force: 125, 150, 180 kN

Injection unit (acc. to EUROMAP): 30, 70

**ARBURG**

# MACHINE DIMENSIONS | 170 S



Electrical connection



Cooling water connection

- 1) Injection unit 30
- 2) Injection unit 70
- 3) Conveyor belt

# TECHNICAL DATA | 170 S

Clamping unit			170 S		
with clamping force	max. kN		125	150	180
Opening force   stroke	max. kN   mm		40   200		
Mould height, fixed   variable	min. mm		150   ---		
Platen daylight fixed   variable	max. mm		350   ---		
Distance between tie bars (w x h)	mm		170 x 170		
Mould mounting platens (w x h)	max. mm		320 x 320		
Weight of movable mould half	max. kg		36 [55]		
Ejector force   stroke	max. kN   mm		16   75		
Dry cycle time EUROMAP <sup>2</sup>	1 pump	min. s - mm	1,2 - 119		
	2 pumps	min. s - mm	0,8 - 119		
	Accum.	min. s - mm	---		

Injection unit			30		70		
with screw diameter	mm		15	18	18	22	25
Effective screw length	L/D		17,7	14,5	24,5	20	17,5
Screw stroke	max. mm		60		90		
Calculated stroke volume	max. cm <sup>3</sup>		10,6	15,3	23	34	44
Shot weight	max. g PS		9,5	14	21	31	40
Material throughput	max. kg/h PS		1,7	2,3	4,1	5,5	6,5
	max. kg/h PA6.6		0,8	1,2	2,1	2,8	3,3
Injection pressure	max. bar		2200	2000	2500	2000	1550
Holding pressure	max. bar		2200	2000	2500	2000	1550
Injection flow <sup>2</sup>	1 pump	max. cm <sup>3</sup> /s	42	60	42	62	80
	2 pumps	max. cm <sup>3</sup> /s	42	60	42	62	80
	Accum.	max. cm <sup>3</sup> /s	---		---		
Screw circumferential speed <sup>2</sup>	1 pump	max. m/min	20	24	24	30	34
	2 pumps	max. m/min	20	24	24	30	34
	Accum.	max. m/min	---		---		
Screw torque	max. Nm		50	60	90	110	120
Nozzle contact force   retraction stroke	max. kN   mm		40   120		50   150		
Heating capacity   zones	kW		2,9   4		4,2   4		
Feed hopper	l		8		8		

Drive and connection			1 pump		2 pumps	
with injection unit			30	70	30	70
Net weight of machine	kg		1630	1650	1630	1650
Sound press. level   Insecurity <sup>4</sup>	dB(A)		65   3		65   3	
Oil filling	l		120		120	
Drive power <sup>2</sup>	max. kW		7,5	11	11	
Electrical connection <sup>3</sup>		kW	12	17	15	17
	Total	A	40	50	50	50
	Machine	A	---		---	
	Heating	A	---		---	
Cooling water connection	max. °C		30		30	
	min. Δp bar		1,5   DN 25		1,5   DN 25	

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

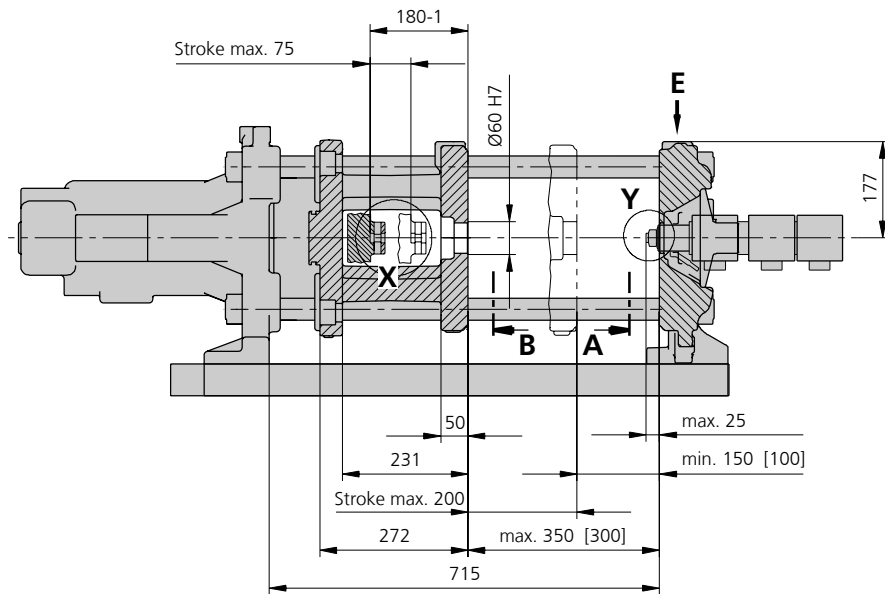
All specifications relate to the basic machine version. Deviations are possible depending on variants, process settings and material type. Depending on the drive, certain combinations, e.g. max. injection pressure and max. injection flow may be mutually exclusive.

- 1) Clamping force (kN) - size of injection unit = max. stroke volume (cm<sup>3</sup>) 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.

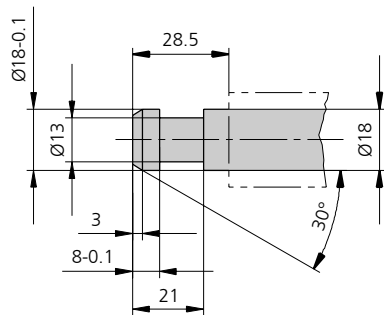
[ ] Specifications apply to alternative equipment.

Machine type	
with EUROMAP size designation <sup>1</sup>	Drive
170 S 125-30	1   2 pumps
170 S 150-30   70	1   2 pumps
170 S 180-30   70	-   2 pumps

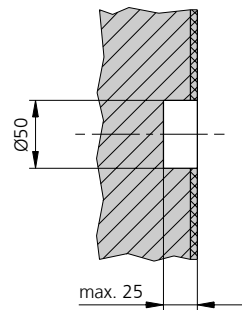
# MOULD INSTALLATION DIMENSIONS | 170 S



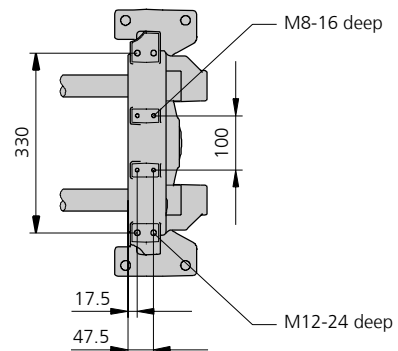
**Ejector bolt | X**



**Bore in mould (if required) | Y**



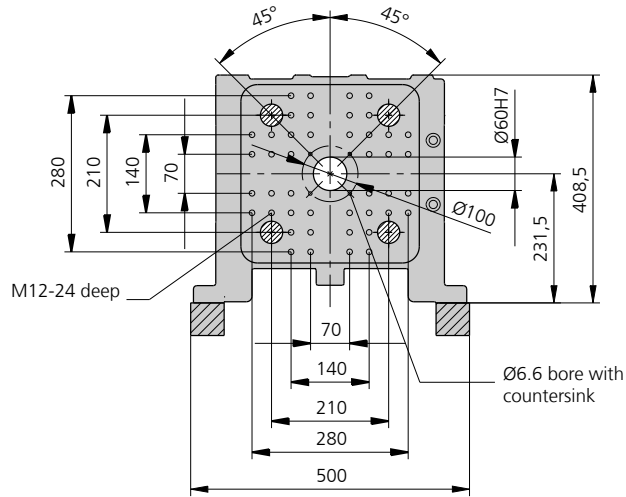
**Robotic system mounting | E**



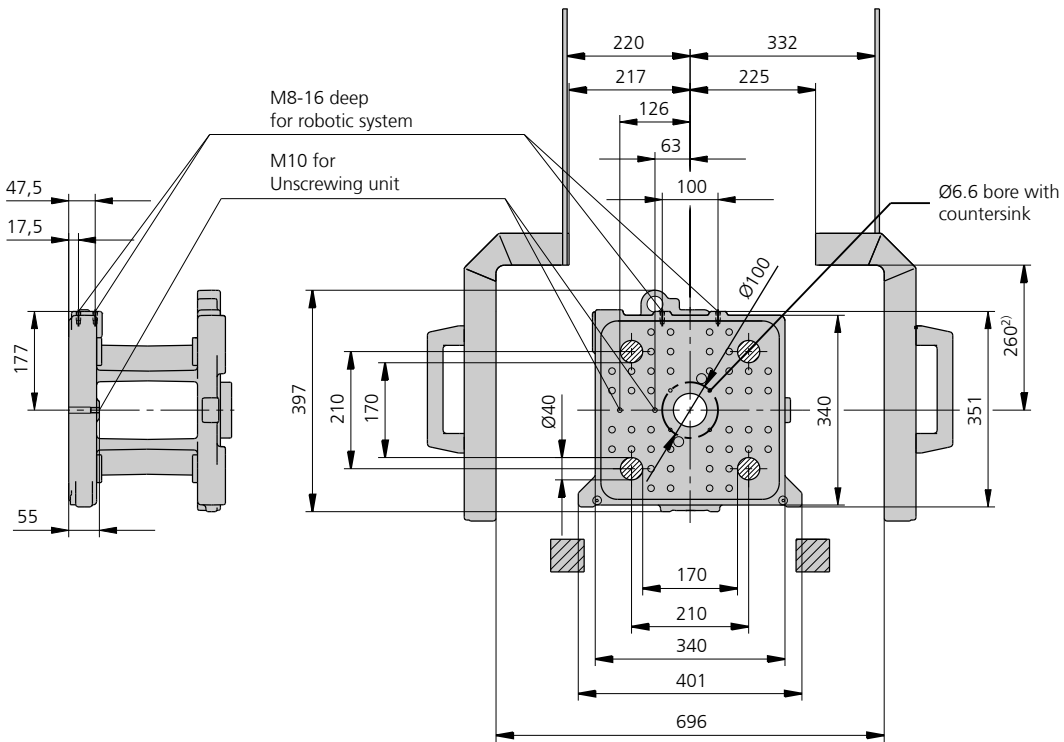
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# MOULD INSTALLATION DIMENSIONS | 170 S

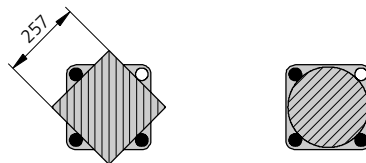
## Fixed mould mounting platen | A



## Moving mould mounting platen | B



## Useful clamping surface when pulling the tie rods



1) Pivoting clamping unit – guard closed at the top

# SHOT WEIGHTS | 170 S

## Theoretical shot weights for the most important injection moulding materials

Injection units according to EUROMAP		30		70		
Screw diameter	mm	15	18	18	22	25
Polystyrene	max. g PS	9,5	14,0	21	31	40
Styrene heteropolymerizates	max. g SB	9,5	13,5	20	31	39
	max. g SAN, ABS <sup>1)</sup>	9,5	13,5	20	30	39
Cellulose acetate	max. g CA <sup>1)</sup>	11,0	15,5	24	35	45
Celluloseacetobutyrate	max. g CAB <sup>1)</sup>	10,0	14,5	22	33	42
Polymethyl methacrylate	max. g PMMA	10,0	14,5	22	32	42
Polyphenylene ether, mod.	max. g PPE	9,0	13,0	19	29	37
Polycarbonate	max. g PC	10,0	14,5	22	33	42
Polysulphone	max. g PSU	10,5	15,0	23	34	44
Polyamides	max. g PA 6.6   PA 6 <sup>1)</sup>	9,5	14,0	21	31	40
	max. g PA 6.10   PA 11 <sup>1)</sup>	9,0	13,0	19	29	37
Polyoximethylene (Polyacetal)	max. g POM	12,0	17,0	26	39	50
Polyethylene terephthalate	max. g PET	11,5	16,5	25	37	48
Polyethylene	max. g PE-LD	7,5	10,5	16	24	30
	max. g PE-HD	7,5	11,0	16	24	31
Polypropylene	max. g PP	7,5	11,0	17	25	32
Fluoropolymerides	max. g FEP, PFA, PCTFE <sup>1)</sup>	15,5	22,5	33	50	65
	max. g ETFE	13,5	19,5	29	44	57
Polyvinyl chloride	max. g PVC-U	11,5	17,0	25	38	49
	max. g PVC-P <sup>1)</sup>	11,0	15,5	23	35	45

1) average value

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