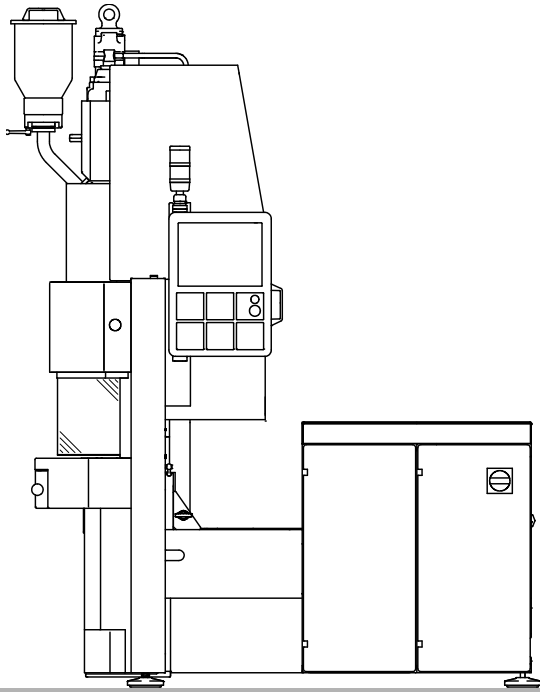




ALLROUNDER 175 V

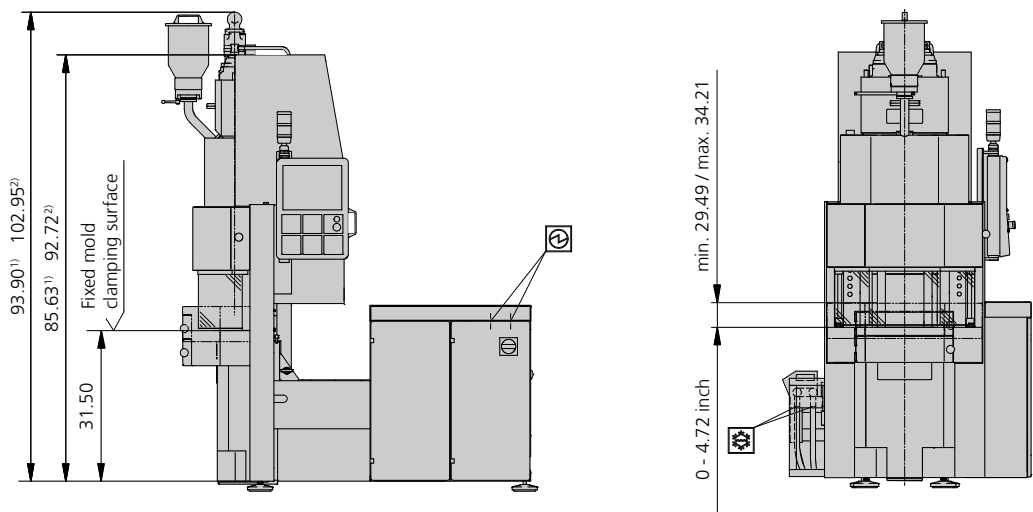
Vertical free-space system

Clamping force: 14 tons

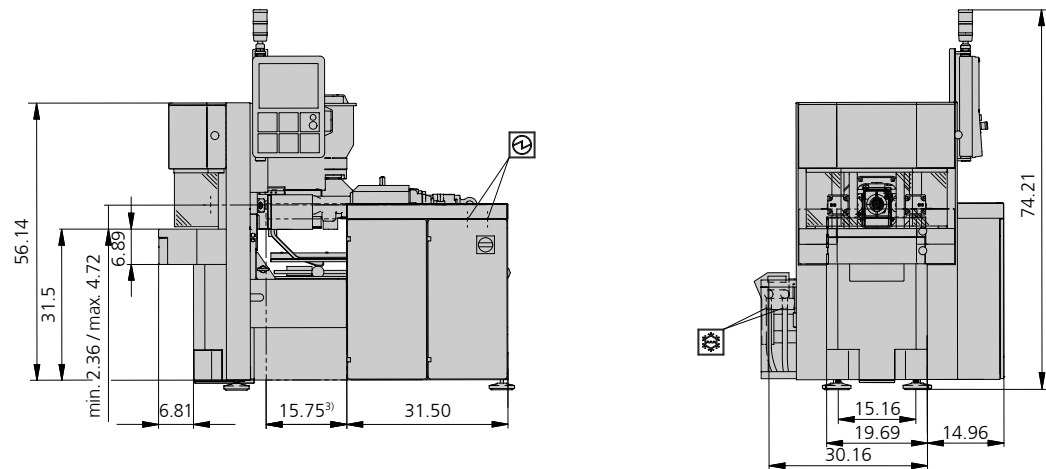
Injection unit: 0.5 oz, 1.4 oz

ARBURG

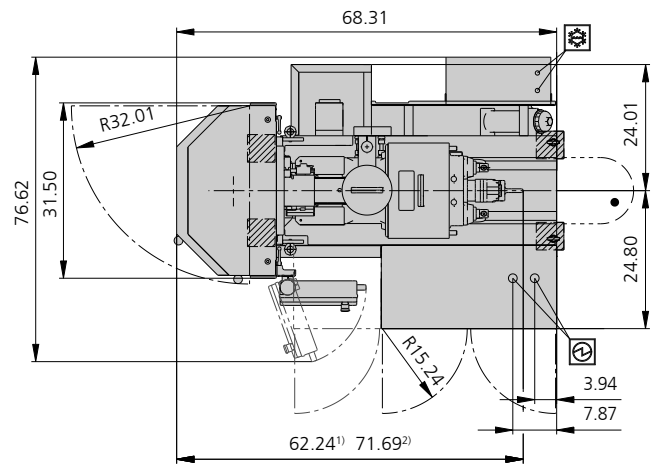
Vertical version



Horizontal version



Horizontal / vertical version



-  Electrical connection
-  Cooling water connection

1) Injection unit 0.5 oz
2) Injection unit 1.4 oz
3) Additional control cabinet dependent on version

Clamping unit		175 V
with clamping force	max. tons	14
Opening force stroke	max. tons inch	3.30 8.86
Mold height, fixed variable	min. inch	3.94 ---
Platen daylight fixed variable	max. inch	12.80 ---
[Table diameter]	inch	[24.80]
[Angle of rotation, left/right]		[180°]
[Rotation time for 180°]	min. s	[1,8]
[Weight on rotary/shuttle table]	max. lbs	[132]
Weight of movable mold half	max. lbs	79
Ejector force stroke	max. tons inch	1.76 1.57
Dry cycle time EUROMAP ²	min. s - inch	2.9 - 4.80

Injection unit		0.5 oz		1.4 oz		
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. inch	2.36		3.54		
Calculated stroke volume	max. cu. inch	0.6	0.9	1.4	2.1	2.7
Shot weight	max. oz / PS	0.3	0.5	0.7	1.1	1.4
Material throughput	max. lbs/h PS	3.7	5.1	9.0	12.1	14.3
	max. lbs/h PA6.6	1.8	2.6	4.6	6.2	7.3
Injection pressure	max. psi	31900	29000	36250	29000	22475
Holding pressure	max. psi	31900	29000	36250	29000	22475
Injection flow ²	max. cu. inch/s	1.6	2.3	1.6	2.4	3.2
Screw circumferential speed ²	max. ft./min	43	49	49	62	72
Screw torque	max. ft./lbs	37	44	66	81	89
Nozzle contact force retraction stroke	max. tons inch	4.40 4.72		5.50 5.91		
Heating capacity zones	kW	2.30 4		4.10 4		
Feed hopper	lbs	13		13		

Drive and connection		1 pump	
with injection unit		0.5 oz	1.4 oz
Net weight of machine	lbs	2673	2717
Sound press. level Ref. only ⁴	dB(A)	64 3	
Oil filling	gal.	11.89	
Drive power ²	max. kW	5.5	
Electrical connection ³	kW	10	12
	A	35 ---	40 ---
Machine	A	--- 15	--- 15
Heat	A	15 ---	15 ---
Cooling water connection	max. °F	77	
	min. Δp psi	22 1"	

Machine type
with EUROMAP size designation ¹
175 V 14 tons 0.5 oz 1.4 oz

Upon request: other machine types and mold 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.

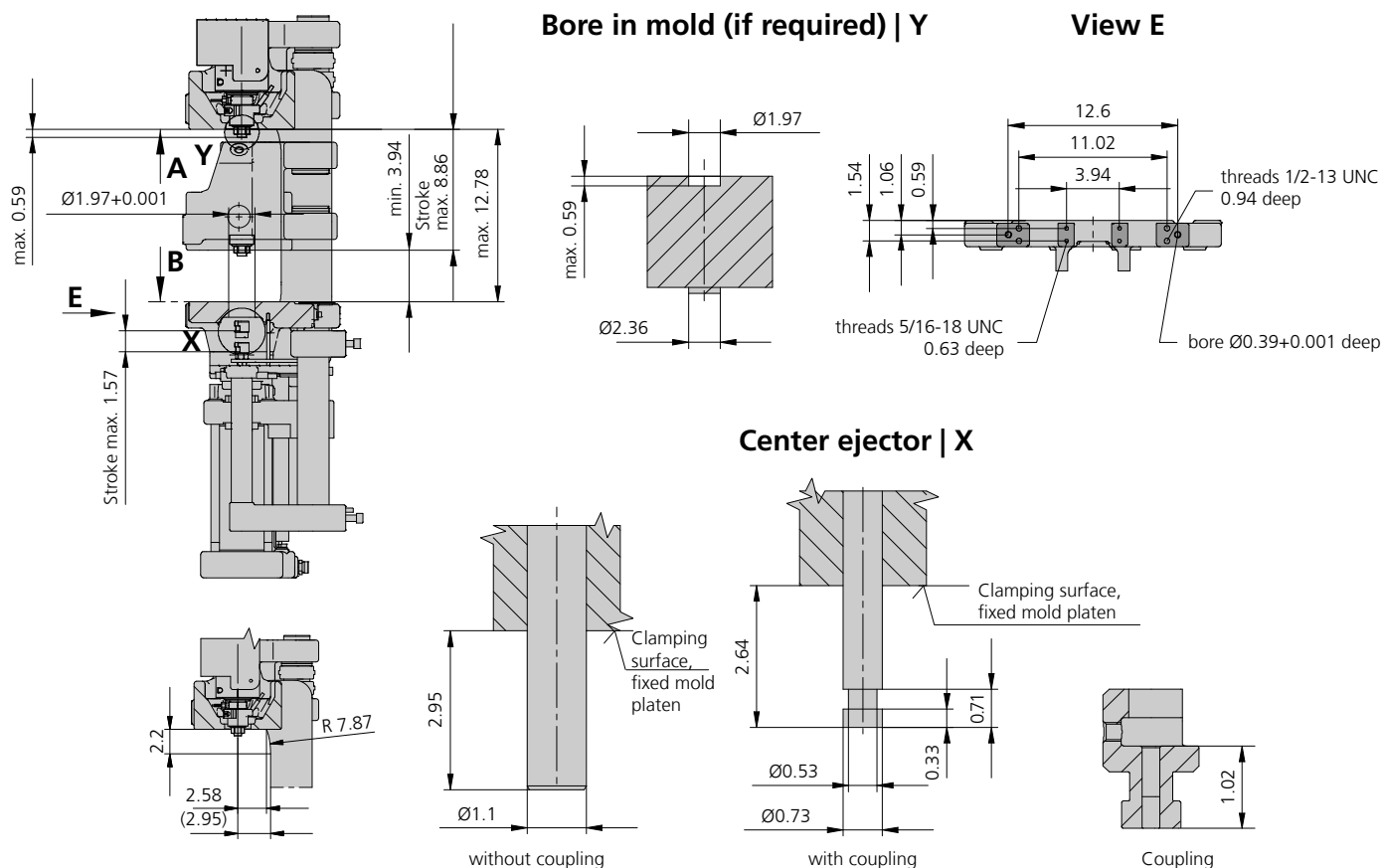
1) Clamping force (tons) - large injection unit = max. stroke volume (cm³) x max. injection pressure (psi)

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

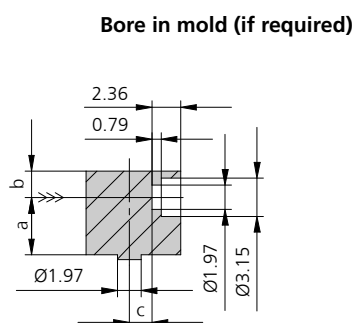
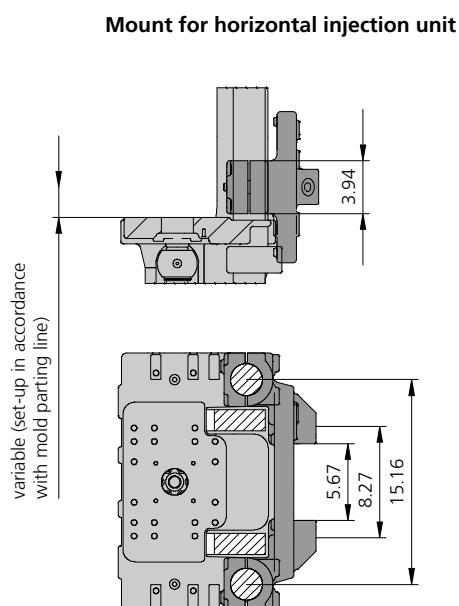
3) Specifications relate to 230V/60 cycles | 460V/60 cycles.

4) Detailed info in the operating instr.

[] Specifications apply to alternative equipment.

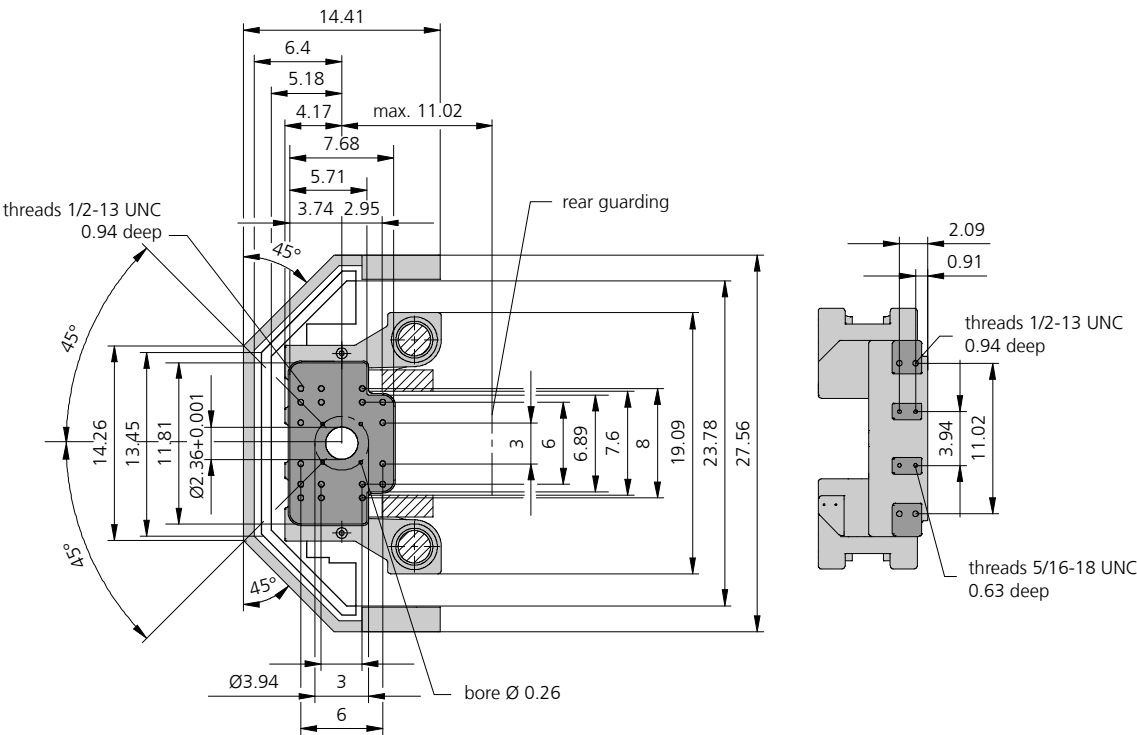


Injection in the mold parting line

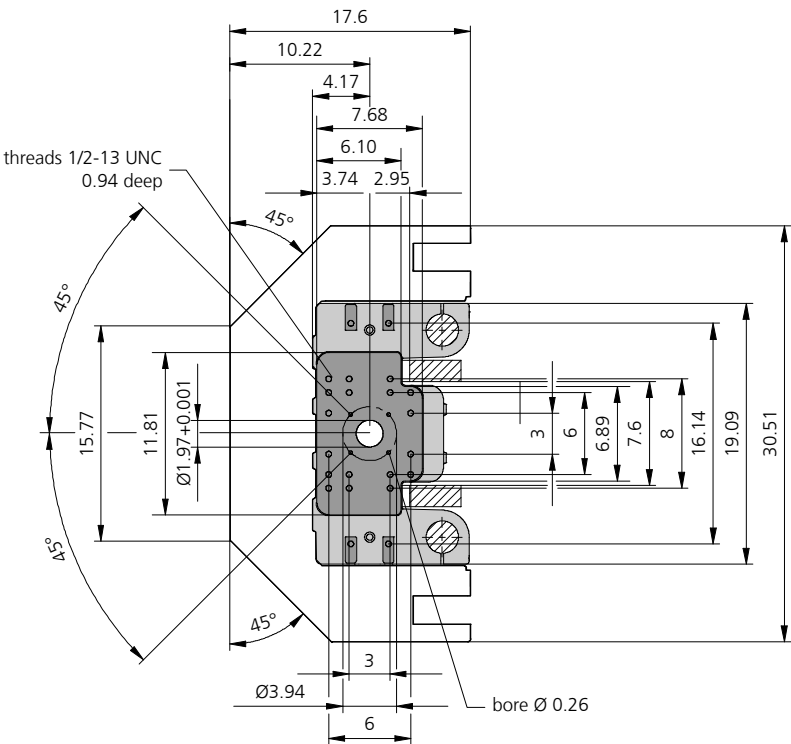


	Injection positions	with hydraulic nozzle
a min.	2.36	3.15
a max.	4.72	4.72
b min.	1.97	1.97
c min.	1.73	0.39

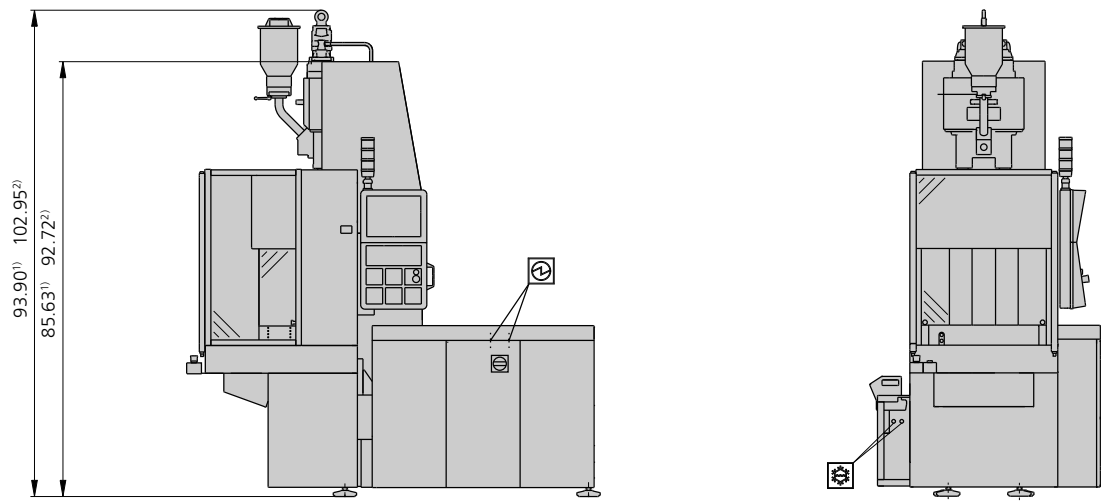
Moving mold mounting platen | A



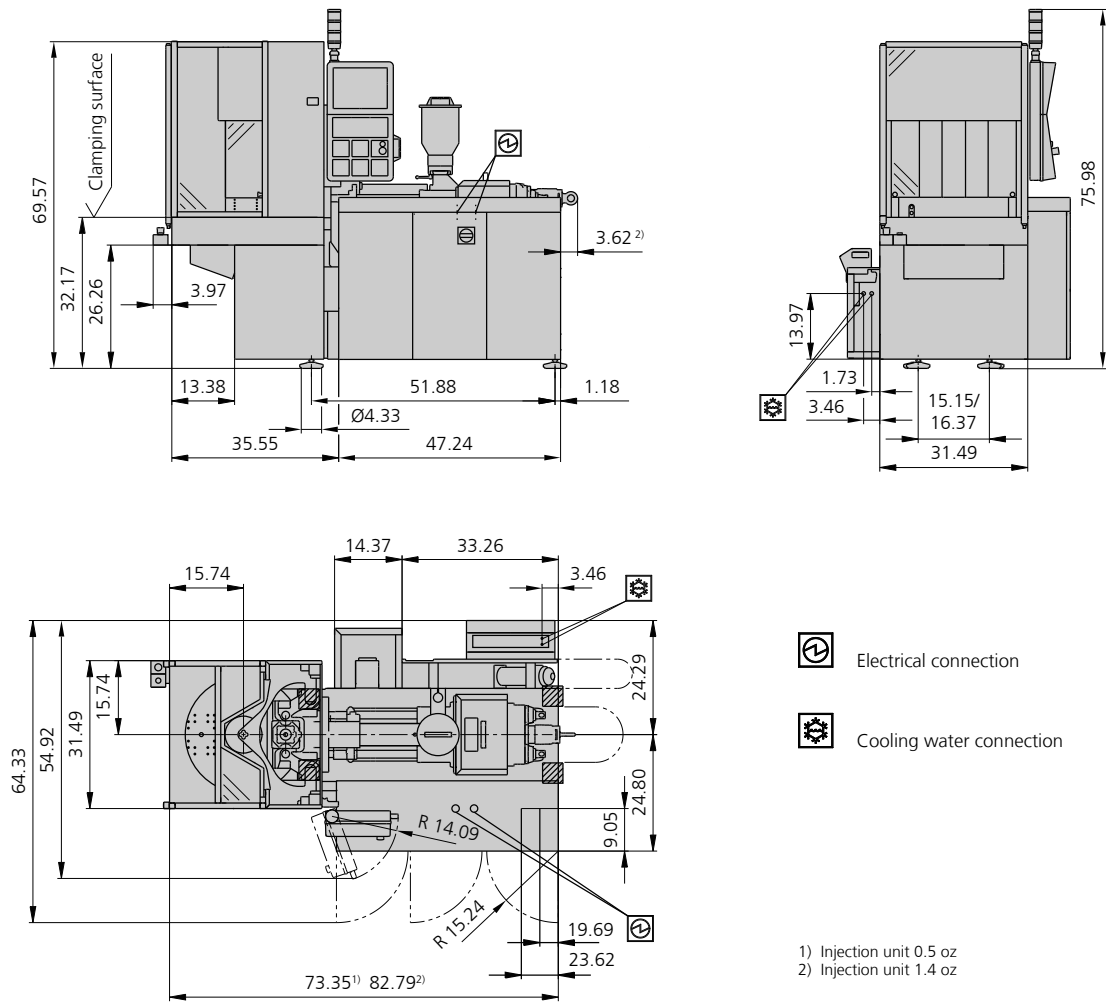
Fixed mold mounting platen | B

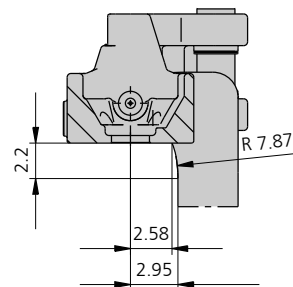
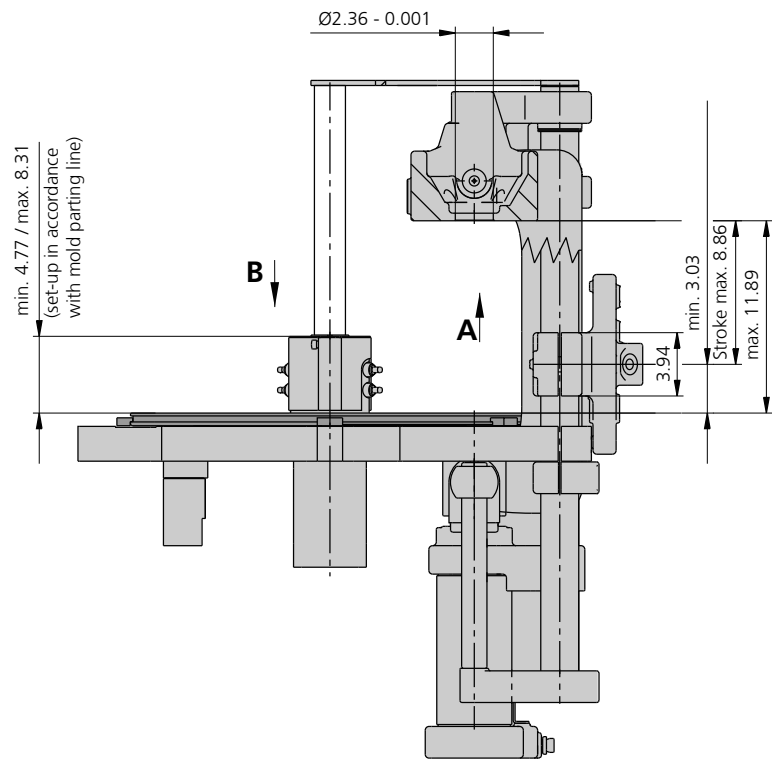


Vertical version

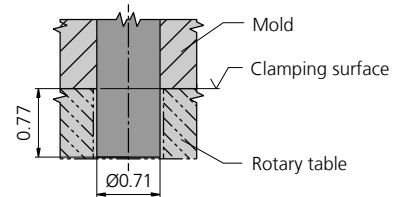


Horizontal version



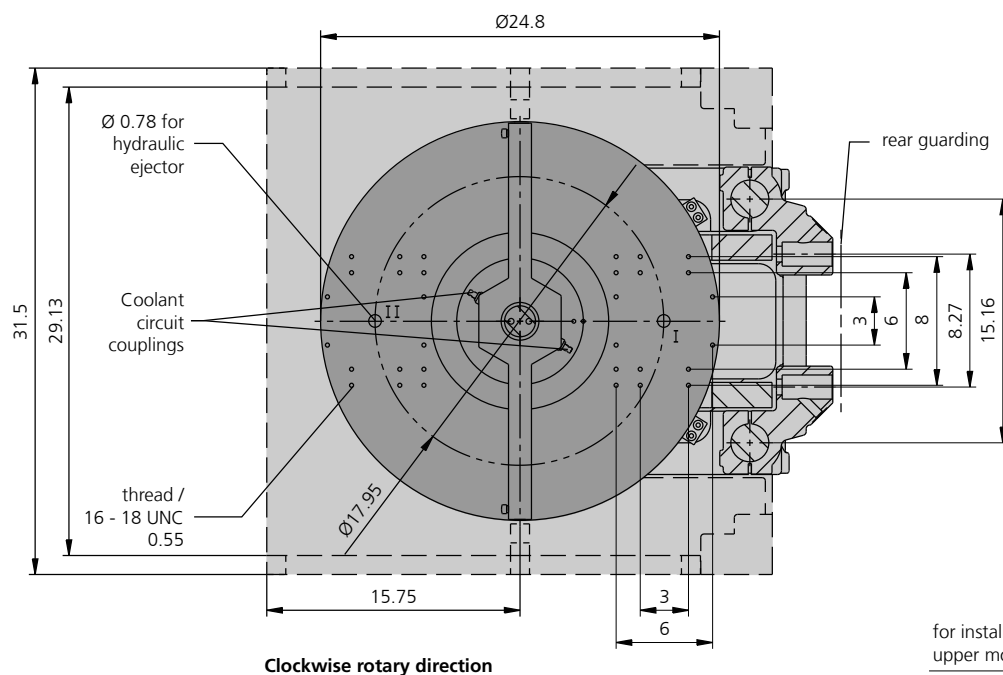


Center ejector
(for gentle ejection)



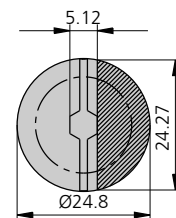
Ejector stroke: 1.57 inch
Ejector force: 1.65 tons

Rotary table mold mounting platen | B



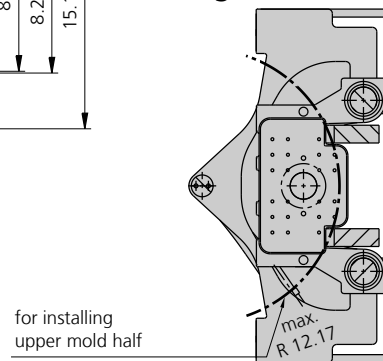
Clockwise rotary direction

Useable clamping surface



Maximum weight on rotary table: 132 lbs

Moving mold mounting platen | A



Movable mold mounting platen, View A, see page 5.

Theoretical shot weights for the most important materials

Injection units		0.5 oz		1.4 oz			
Screw diameter	inch	0.59	0.71	0.71	0.87	0.98	
	mm	15	18	18	22	25	
Polystyrene	max. oz PS	0.34	0.49	0.7	1.1	1.4	
Styrene heteropolymerizates	max. oz SB	0.34	0.48	0.7	1.1	1.4	
	max. oz SAN, ABS ¹⁾	0.34	0.48	0.7	1.1	1.4	
Cellulose acetate	max. oz CA ¹⁾	0.39	0.55	0.8	1.2	1.6	
Celluloseacetobutyrat	max. oz CAB ¹⁾	0.35	0.51	0.8	1.1	1.5	
Polymethyl methacrylate	max. oz PMMA	0.35	0.51	0.8	1.1	1.5	
Polyphenylene oxide, mod.	max. oz PPO	0.32	0.46	0.7	1.0	1.3	
Polycarbonate	max. oz PC	0.35	0.51	0.8	1.2	1.5	
Polysulphone	max. oz PSU	0.37	0.53	0.8	1.2	1.6	
Polyamides	max. oz PA 6.6 PA 6 ¹⁾	0.34	0.49	0.7	1.1	1.4	
	max. oz PA 6.10 PA 11 ¹⁾	0.32	0.46	0.7	1.0	1.3	
Polyoximethylene (Polyacetal)	max. oz POM	0.42	0.60	0.9	1.4	1.8	
Polyethylene terephthalate	max. oz PET	0.41	0.58	0.9	1.3	1.7	
Polyethylene	max. oz PE-LD	0.26	0.37	0.6	0.8	1.1	
	max. oz PE-HD	0.26	0.39	0.6	0.9	1.1	
Polypropylene	max. oz PP	0.26	0.39	0.6	0.9	1.1	
Fluoropolymerides	max. oz FEP, PFA, PCTFE ¹⁾	0.55	0.79	1.2	1.8	2.3	
	max. oz ETFE	0.48	0.69	1.0	1.5	2.0	
Polyvinyl chloride	max. oz PVC-U	0.41	0.60	0.9	1.3	1.7	
	max. oz PVC-P ¹⁾	0.39	0.55	0.8	1.2	1.6	

1) average value

ARBURG GmbH + Co KG

Arthur-Hehl-Strasse · 72290 Lossburg · Tel.: +49 7446 33-0 · www.arburg.com · E-Mail: contact@arburg.com

With locations in Europe: Germany, Belgium, Denmark, France, United Kingdom, Italy, Netherlands, Austria, Poland, Switzerland, Slovakia, Spain, Czech Republic, Turkey, Hungary | **Asia:** People's Republic of China, Indonesia, Malaysia, Singapore, Taiwan, Thailand, United Arab Emirates | **America:** Brazil, Mexico, USA

For more information, please go to www.arburg.com.

© 2017 ARBURG GmbH + Co KG

The brochure is protected by copyright. Any utilization, which is not expressly permitted under copyright legislation, requires the previous approval of ARBURG.

All data and technical information have been compiled with great care. However we accept no responsibility for correctness. Individual illustrations and information may deviate from the actual delivery condition of the machine. The relevant valid operating instructions are applicable for the installation and operation of the machine.



ARBURG GmbH + Co KG

DIN EN ISO 9001 + 14001 + 50001 certified



Partner of the Engineering Industry Sustainability Initiative