

ALLROUNDER 1120 H

Clamp-Design

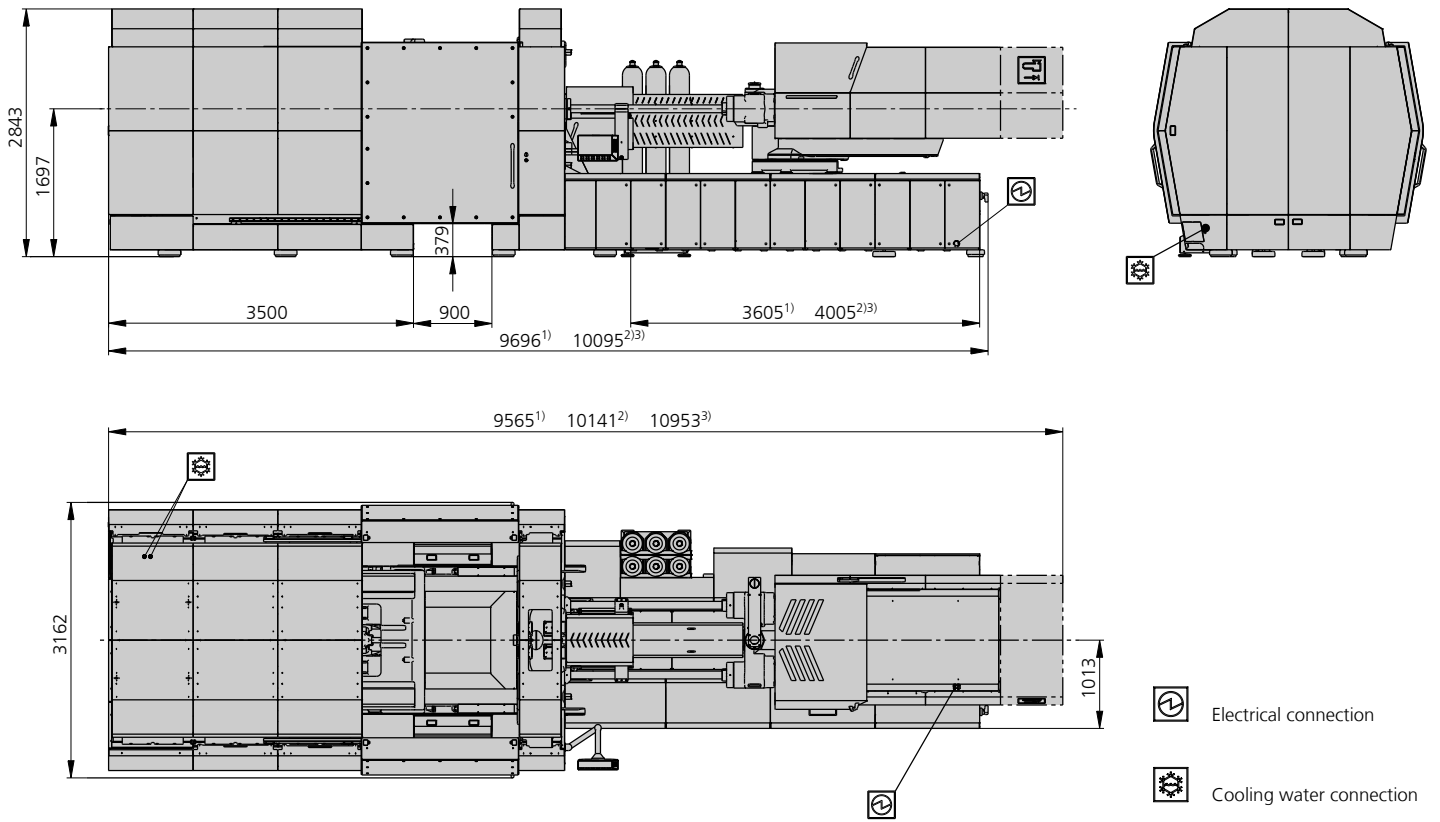
Distance between tie bars: 1120 x 1120 mm

Clamping force: 6500 kN

Injection unit (acc. to EUROMAP): 3200, 4600, 7000

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MACHINE DIMENSIONS | 1120 H



1) Injection unit 3200
 2) Injection unit 4600
 3) Injection unit 7000

TECHNICAL DATA | 1120 H

Clamping unit		1120 H
with clamping force	max. kN	6500
Opening force stroke	max. kN mm	--- 1050
Mould height, fixed variable	min.-max. mm	--- 400-1050
Platen daylight fixed variable	max. mm	--- 1450-2100
Distance between tie bars (w x h)	mm	1120 x 1120
Mould mounting platens (w x h)	max. mm	1470 x 1470
Weight of movable mould half	max. kg	9100
Ejector force stroke	max. kN mm	140 350
Dry cycle time EUROMAP ²	min. s - mm	3,0 - 784

Injection unit		3200			4600			7000		
with screw diameter	mm	70	80	90	80	90	100	90	100	115
Effective screw length	L/D	23	20	18	22,5	20	18	25,5	23	20
Screw stroke	max. mm	320			360			450		
Calculated stroke volume	max. cm ³	1232	1608	2036	1810	2290	2827	2863	3534	4674
Shot weight	max. g PS	1125	1469	1860	1653	2092	2583	2615	3229	4270
Material throughput	max. kg/h PS	185	215	250	255	295	330	395	450	530
	max. kg/h PA6.6	93	110	125	120	150	170	200	225	265
Injection pressure	max. bar	2500	2000	1580	2500	2000	1620	2470	2000	1510
Holding pressure	max. bar	2500	2000	1580	2500	2000	1620	2470	2000	1510
Injection flow	max. cm ³ /s	1155	1508	1909	1257	1590	1963	1590	1963	2597
Screw circumferential speed ²	max. m/min	53	60	68	53	60	66	54	60	69
Screw torque ²	max. Nm	3140	3590	4040	4400	4950	5500	6800	7600	8700
Nozzle contact force retraction stroke	max. kN mm	110 600			110 600			130 600		
Heating capacity zones	kW	38,6 8			51,4 9			68,6 12		

Drive and connection		3200	4600	7000
with injection unit				
Net weight of machine	kg	50000	51500	56000
Sound press. level Insecurity ⁴	dB(A)	62 3		
Oil filling	l	420	570	650
Drive power ²	max. kW	---		
Electrical connection ³	kW	150	201	263
	Total	---		
	Machine	225	300	355
	Heating	63	80	100
Cooling water connection	max. °C	30		
	min. Δp bar	1,5 DN 25		

Machine type

with EUROMAP size designation¹

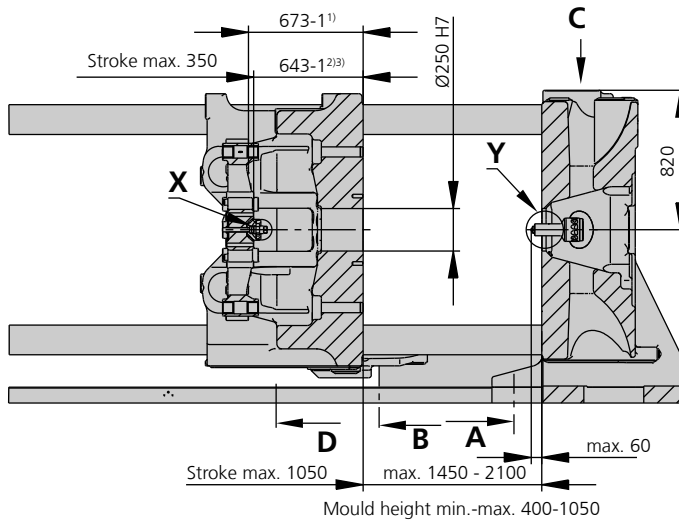
1120 H 6500-3200 | 4600 | 7000

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

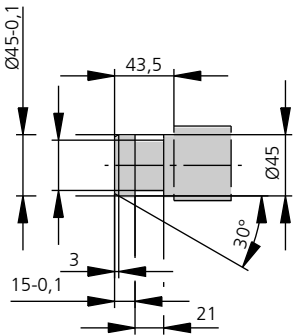
All specifications relate to the basic machine version. Deviations are possible depending on variants, process settings and material type. Depending on the drive, certain combinations, e.g. max. injection pressure and max. injection flow may be mutually exclusive.

- 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) Emission sound pressure level at the workplace. Detailed information in the operating instructions.
- [] Specifications apply to alternative equipment.

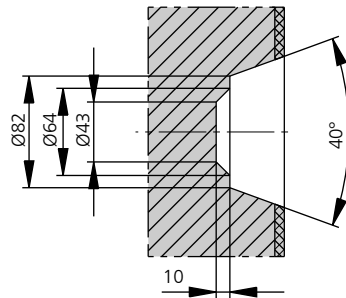
MOULD INSTALLATION DIMENSIONS | 1120 H



Ejector bolt | X

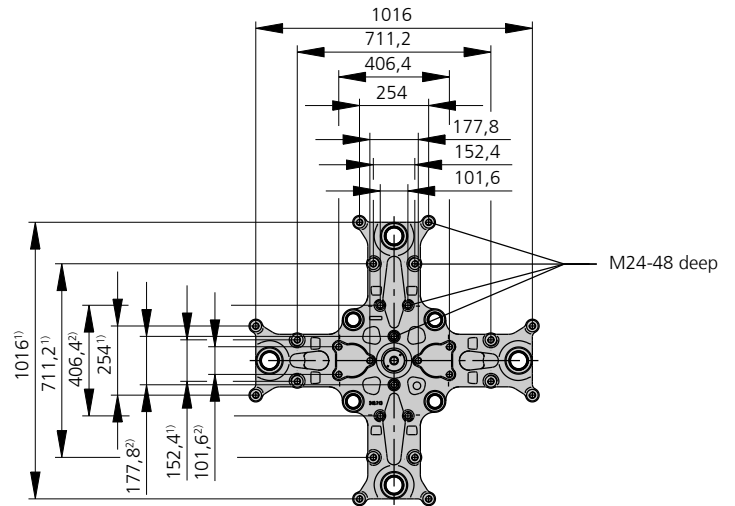


Bore in mould (if required) | Y

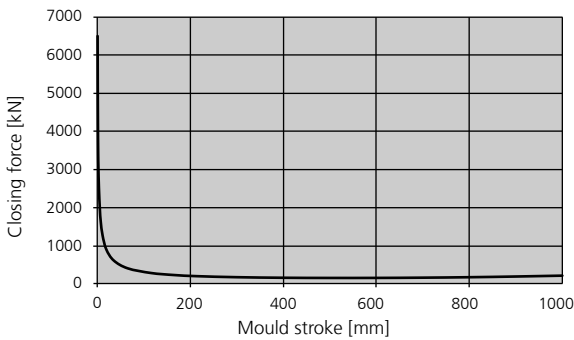


in thermoset version available on request

Ejector plate | D

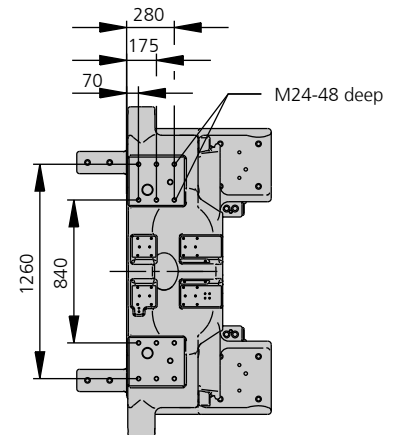


Closing force for spring moulds / during injection compression moulding*



* automatic locking force adjustment up to 50 kN

Robotic system mounting | C



1) - 2) Positions of ejector plate
3) Also for central ejectors

SHOT WEIGHTS | 1120 H

Theoretical shot weights for the most important injection moulding materials

Injection units according to EUROMAP		3200			4600			7000		
Screw diameter	mm	70	80	90	80	90	100	90	100	115
Polystyrene	max. g PS	1125	1469	1860	1653	2092	2583	2615	3229	4270
Styrene heteropolymerizates	max. g SB	1099	1436	1817	1615	2044	2523	2555	3154	4172
	max. g SAN, ABS ¹⁾	1077	1407	1781	1583	2003	2473	2504	3092	4089
Cellulose acetate	max. g CA ¹⁾	1266	1654	2093	1860	2354	2907	2943	3633	4805
Celluloseacetobutyrate	max. g CAB ¹⁾	1177	1538	1946	1730	2189	2703	2737	3379	4468
Polymethyl methacrylate	max. g PMMA	1163	1518	1922	1708	2162	2669	2702	3336	4412
Polyphenylene ether, mod.	max. g PPE	1044	1364	1726	1535	1942	2398	2428	2997	3964
Polycarbonate	max. g PC	1182	1544	1954	1737	2199	2714	2748	3393	4487
Polysulphone	max. g PSU	1222	1596	2019	1795	2272	2805	2840	3506	4637
Polyamides	max. g PA 6.6 PA 6 ¹⁾	1118	1461	1848	1643	2080	2568	2611	3223	4263
	max. g PA 6.10 PA 11 ¹⁾	1044	1364	1726	1535	1942	2398	2473	3054	4038
Polyoximethylene (Polyacetal)	max. g POM	1389	1814	2296	2041	2583	3189	3229	3987	5272
Polyethylene terephthalate	max. g PET	1340	1750	2215	1969	2492	3076	3115	3845	5085
Polyethylene	max. g PE-LD	850	1110	1405	1249	1580	1951	1975	2439	3225
	max. g PE-HD	877	1146	1450	1289	1632	2015	2040	2518	3330
Polypropylene	max. g PP	897	1171	1482	1317	1667	2058	2084	2573	3403
Fluoropolymerides	max. g FEP, PFA, PCTFE ¹⁾	1800	2352	2976	2646	3348	4134	4185	5167	6834
	max. g ETFE	1579	2063	2611	2321	2937	3626	3672	4533	5995
Polyvinyl chloride	max. g PVC-U	1360	1776	2247	1998	2528	3121	3161	3902	5160
	max. g PVC-P ¹⁾	1256	1641	2076	1846	2336	2884	2920	3605	4768

1) average value

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