

ALLROUNDER 370 H

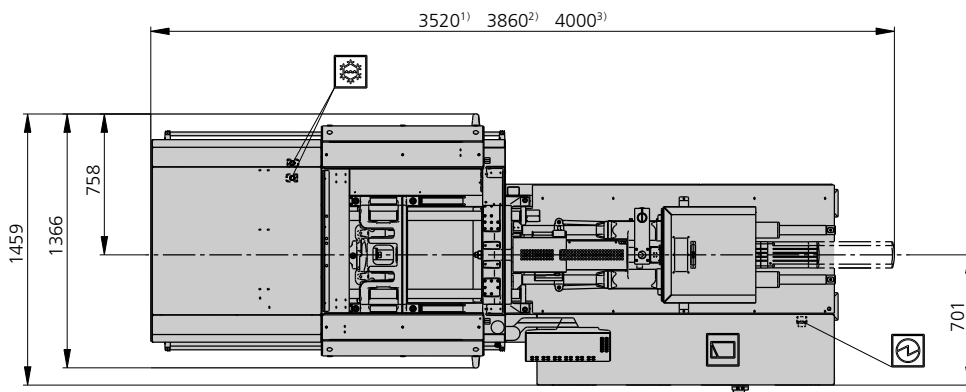
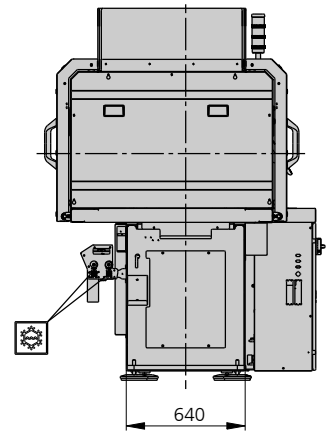
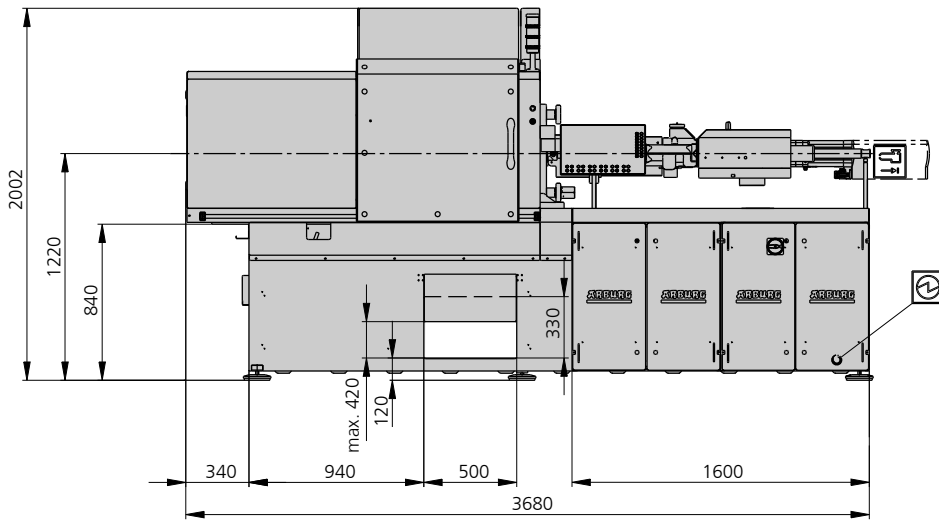
Distance between tie bars: 370 x 370 mm

Clamping force: 600 kN

Injection unit (acc. to EUROMAP): 100, 170, 290

ARBURG

MACHINE DIMENSIONS | 370 H



Electrical connection



Cooling water connection

- 1) injection unit 100
- 2) injection unit 170
- 3) Injection unit 290

TECHNICAL DATA | 370 H

| Clamping unit | | 370 H |
|-------------------------------------|--------------|---------------|
| with clamping force | max. kN | 600 |
| Opening force stroke | max. kN mm | --- 300 |
| Mould height, fixed variable | min.-max. mm | --- 200-400 |
| Platen daylight fixed variable | max. mm | --- 500-700 |
| Distance between tie bars (w x h) | mm | 370 x 370 |
| Mould mounting platens (w x h) | max. mm | 510 x 510 |
| Weight of movable mould half | max. kg | 360 |
| Ejector force stroke | max. kN mm | 25 100 |
| Dry cycle time EUROMAP ² | min. s - mm | 0,8 - 259 |

| Injection unit | | 100 | | | 170 | | | 290 | | |
|--|-------------------------|----------|------|------|----------|------|------|----------|------|------|
| with screw diameter | mm | 20 | 25 | 30 | 25 | 30 | 35 | 30 | 35 | 40 |
| Effective screw length | L/D | 25 | 20 | 16,7 | 24 | 20 | 17 | 23,3 | 20 | 17,5 |
| Screw stroke | max. mm | 100 | | | 120 | | | 150 | | |
| Calculated stroke volume | max. cm ³ | 31 | 49 | 71 | 59 | 85 | 115 | 106 | 144 | 188 |
| Shot weight | max. g PS | 29 | 45 | 65 | 54 | 77 | 105 | 97 | 132 | 172 |
| Material throughput | max. kg/h PS | 5,5 | 8 | 9,5 | 10 | 13,5 | 16 | 17 | 20,5 | 24,5 |
| | max. kg/h PA6.6 | 2,8 | 4 | 4,9 | 5 | 7 | 8 | 8,5 | 10,5 | 12,5 |
| Injection pressure | max. bar | 2500 | 2000 | 1390 | 2500 | 2000 | 1470 | 2500 | 2000 | 1530 |
| Holding pressure | max. bar | 2500 | 2000 | 1390 | 2500 | 2000 | 1470 | 2500 | 2000 | 1530 |
| Injection flow | max. cm ³ /s | 173 | 270 | 389 | 221 | 318 | 433 | 318 | 433 | 565 |
| Screw circumferential speed ² | max. m/min | 48 | 60 | 72 | 50 | 60 | 70 | 51 | 60 | 69 |
| Screw torque ² | max. Nm | 120 | 150 | 180 | 210 | 250 | 290 | 320 | 380 | 430 |
| Nozzle contact force retraction stroke | max. kN mm | 50 180 | | | 50 210 | | | 60 240 | | |
| Heating capacity zones | kW | 6,7 5 | | | 9 5 | | | 7,7 5 | | |
| Feed hopper | l | 50 | | | 50 | | | 50 | | |

| Drive and connection | | 100 | 170 | 290 |
|--|-------------|-------------|------|------|
| with injection unit | | | | |
| Net weight of machine | kg | 3400 | 3550 | 3580 |
| Sound press. level Insecurity ⁴ | dB(A) | 63 3 | | |
| Oil filling | l | 135 | | |
| Drive power ² | max. kW | --- | | |
| Electrical connection ³ | kW | 20 | 26 | 27 |
| | Total | A | 63 | 80 |
| | Machine | A | --- | |
| | Heating | A | --- | |
| Cooling water connection | max. °C | 30 | | |
| | min. Δp bar | 1,5 DN 25 | | |

Machine type
with EUROMAP size designation ¹
370 H 600-100 | 170 | 290

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)

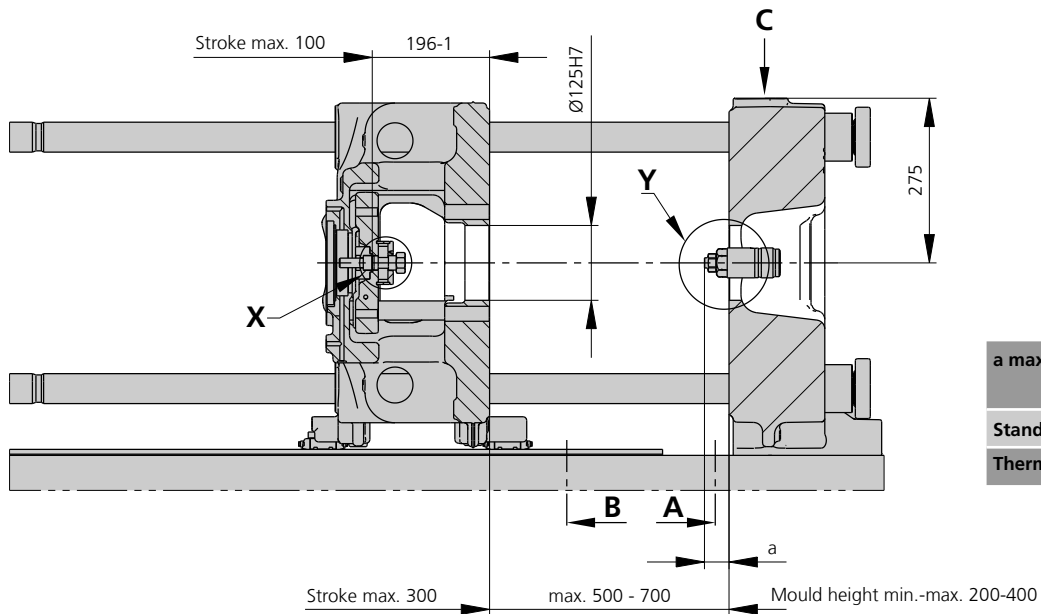
2) Specifications depend on the drive variant / drive configuration.

3) Specifications relate to 400 V/50 Hz.

4) Detailed info in the operating instr.

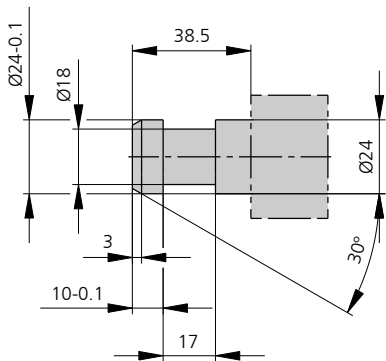
[] Specifications apply to alternative equipment.

MOULD INSTALLATION DIMENSIONS | 370 H

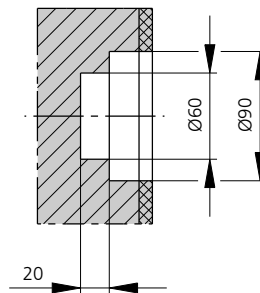


| a max. | Injection unit |
|-----------|-----------------|
| | 100 / 170 / 290 |
| Standard | 40 |
| Thermoset | 20 |

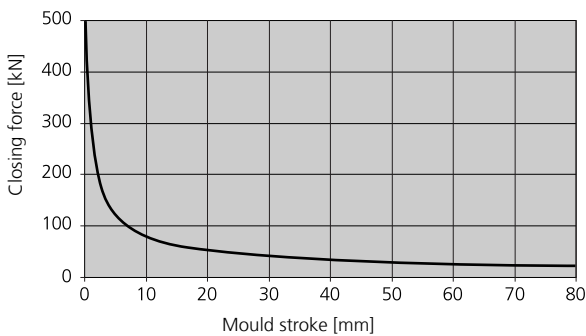
Ejector bolt | X



Bore in mould (if required) | Y

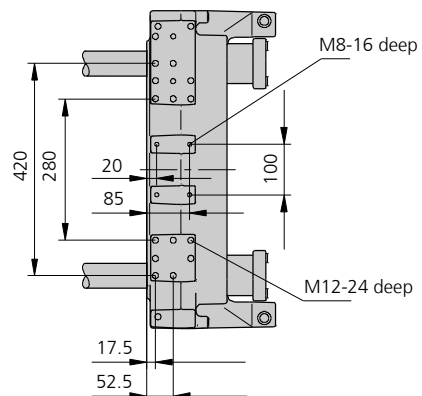


Closing force for spring moulds / during injection compression moulding*



* automatic locking force adjustment up to 20 kN

Robotic system mounting | C



SHOT WEIGHTS | 370 H

Theoretical shot weights for the most important injection moulding materials

| Injection units according to EUROMAP | | 100 | | | 170 | | | 290 | | |
|--------------------------------------|--------------------------------------|-----|----|-----|-----|-----|-----|-----|-----|-----|
| Screw diameter | mm | 20 | 25 | 30 | 25 | 30 | 35 | 30 | 35 | 40 |
| Polystyrene | max. g PS | 29 | 45 | 65 | 54 | 77 | 105 | 97 | 132 | 172 |
| Styrene heteropolymerizates | max. g SB | 28 | 44 | 63 | 53 | 76 | 103 | 95 | 129 | 168 |
| | max. g SAN, ABS ¹⁾ | 27 | 43 | 62 | 52 | 74 | 101 | 93 | 126 | 165 |
| Cellulose acetate | max. g CA ¹⁾ | 32 | 50 | 73 | 61 | 87 | 119 | 109 | 148 | 194 |
| Celluloseacetobutyrate | max. g CAB ¹⁾ | 30 | 47 | 68 | 56 | 81 | 110 | 101 | 138 | 180 |
| Polymethyl methacrylate | max. g PMMA | 30 | 46 | 67 | 56 | 80 | 109 | 100 | 136 | 178 |
| Polyphenylene ether, mod. | max. g PPE | 27 | 42 | 60 | 50 | 72 | 98 | 90 | 122 | 160 |
| Polycarbonate | max. g PC | 30 | 47 | 68 | 57 | 81 | 111 | 102 | 139 | 181 |
| Polysulphone | max. g PSU | 31 | 49 | 70 | 58 | 84 | 115 | 105 | 143 | 187 |
| Polyamides | max. g PA 6.6 PA 6 ¹⁾ | 28 | 44 | 64 | 53 | 77 | 104 | 96 | 131 | 171 |
| | max. g PA 6.10 PA 11 ¹⁾ | 26 | 41 | 60 | 50 | 72 | 98 | 90 | 122 | 160 |
| Polyoximethylene (Polyacetal) | max. g POM | 35 | 55 | 80 | 66 | 96 | 130 | 120 | 163 | 213 |
| Polyethylene terephthalate | max. g PET | 34 | 53 | 77 | 64 | 92 | 126 | 115 | 157 | 205 |
| Polyethylene | max. g PE-LD | 22 | 34 | 49 | 41 | 59 | 80 | 73 | 100 | 130 |
| | max. g PE-HD | 22 | 35 | 50 | 42 | 60 | 82 | 76 | 103 | 134 |
| Polypropylene | max. g PP | 23 | 36 | 51 | 43 | 62 | 84 | 77 | 105 | 137 |
| Fluoropolymerides | max. g FEP, PFA, PCTFE ¹⁾ | 46 | 72 | 103 | 86 | 124 | 169 | 155 | 211 | 276 |
| | max. g ETFE | 40 | 63 | 91 | 76 | 109 | 148 | 136 | 185 | 242 |
| Polyvinyl chloride | max. g PVC-U | 35 | 54 | 78 | 65 | 94 | 127 | 117 | 159 | 208 |
| | max. g PVC-P ¹⁾ | 32 | 50 | 72 | 60 | 87 | 118 | 108 | 147 | 192 |

1) average value

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