



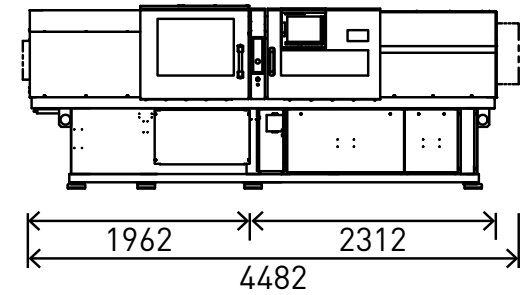
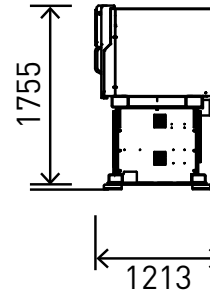
ROBOSHOT

ALPHA SERIES

Tonnage: 110

**Screw Diameter:
22, 26, 28, 32, 36, 40**

TECHNICAL SPECIFICATIONS



| Screw Diameter | | 22 | 26 | 28 | 32 | 36 | 40 |
|---|--|--|-----------------|-----------------|-----------------|-----------------|-----------------|
| | ENGLISH METRIC | | | | | | |
| General | | | | | | | |
| Overall Dimensions (L x W x H) | in mm | 176.5 x 47.8 x 69.1 4,482 x 1,213 x 1,755 | | | | | |
| Machine Weight | lbs kg | 9,480 4,300 | | | | | |
| Nominal Input Power Source | Ph/Volt | 3 Phase, 220V +/-10%, 60 Hz +/- 1 Hz | | | | | |
| Breaker Size Machine Only | Amp | 60 | | | | | |
| Breaker Size with Aux Outlets | Amp | 150 | | | | | |
| Machine | kva | 27.3 | | | | | |
| External Outlet | kva | 35 | | | | | |
| Max Total Capacity | kva | 62.3 | | | | | |
| Injection Unit Specifications | | | | | | | |
| Injection Capacity, Maximum GPPS | oz gms | 0.95 27 | 1.68 48 | 1.95 55 | 3.42 97 | 4.87 138 | 6.02 171 |
| Theoretical Displacement | in ³ cm ³ | 1.7 29 | 3.1 50 | 3.6 58 | 6.3 103 | 8.9 147 | 11 181 |
| Maximum Injection Pressure | psi bar | 37,710 2,600 | 37,710 2,600 | 34,809 2,400 | 31,908 2,200 | 27,557 1,900 | 23,206 1,600 |
| Maximum Pack Pressure | psi bar | 37,710 2,600 | 37,710 2,600 | 31,908 2,200 | 29,008 2,000 | 24,656 1,700 | 20,305 1,400 |
| Maximum Injection Velocity | in/sec cm/sec | 12.99 33 | 12.99 33 | 12.99 33 | 12.99 33 | 12.99 33 | 12.99 33 |
| Maximum Injection Rate | in ³ /sec cm ³ /sec | 7.65 125 | 10.69 175 | 12.4 203 | 16.19 265 | 20.49 336 | 25.3 415 |
| Maximum Injection Pressure (a-S110iA-g) | psi bar | 37,710 2,600 | 37,710 2,600 | 34,809 2,400 | 31,908 2,200 | 27,557 1,900 | 23,206 1,600 |
| Maximum Pack Pressure (a-S110iA-g) | psi bar | 37,710 2,600 | 37,710 2,600 | 31,908 2,200 | 29,008 2,000 | 24,656 1,700 | 21,756 1,400 |
| Maximum Injection Velocity (a-S110iA-g) | in/sec cm/sec | 7.87 20 | 7.87 20 | 7.87 20 | 7.87 20 | 7.87 20 | 7.87 20 |
| Maximum Injection Rate (a-S110iA-g) | in ³ /sec cm ³ /sec | 4.64 76 | 6.48 106 | 7.51 123 | 9.81 161 | 12.42 204 | 15.31 251 |
| Screw Stroke | in mm | 2.95 75 | 3.74 95 | 3.74 95 | 5.04 128 | 5.67 144 | 5.67 144 |
| Screw Diameter | in mm | 0.87 22 | 1.02 26 | 1.10 28 | 1.26 32 | 1.42 36 | 1.57 40 |
| Screw L/D Ratio | L/D | 20:1 | 20:1 | 20:1 | 20:1 | 20:1 | 20:1 |

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| Screw Diameter | | 22 | 26 | 28 | 32 | 36 | 40 |
|--|-------------------|---------------------------|-------------|-------------|---------------------------|-------------|-------------|
| | ENGLISH METRIC | | | | | | |
| Injection Unit Specifications (continued) | | | | | | | |
| Screw Speed Max | min ⁻¹ | 450 | 450 | 450 | 450 | 450 | 450 |
| Screw Speed Max (a-S110iA-g) | min ⁻¹ | 300 | 300 | 300 | 300 | 300 | 300 |
| Nozzle Touch Force | ton tonf | 1.65 1.5 | 1.65 1.5 | 1.65 1.5 | 1.65 1.5 | 1.65 1.5 | 1.65 1.5 |
| Number of Pyrometers (Barrel/Nozzle) | qty | 3/1 | 3/1 | 3/1 | 3/1 | 3/1 | 3/1 |
| Total Heat Capacity | kW | 3.8 | 6.5 | 7.2 | 8.4 | 9.1 | 10.1 |
| Clamp | | Standard | | | Optional | | |
| Clamping Force | ton kN | 110 1,000 | | | 137.5 1,250 | | |
| Mold Opening Stroke | in mm | 13.78 350 | | | | | |
| Ejector Force | tons kN | 2.75 25 | | | | | |
| Ejector Stroke Max | in mm | 3.94 100 | | | | | |
| Maximum Daylight (single platen) | in mm | 34.25 800 | | | 38.19 900 | | |
| Min/Max Mold Thickness (single platen) | in mm | 8.66 / 20.47 220 / 520 | | | 8.66 / 24.41 220 / 620 | | |
| Maximum Daylight (double platen) | in mm | 31.5 870 | | | 35.43 970 | | |
| Min/Max Mold Thickness (double platen) | in mm | 5.9 / 17.7 150 / 450 | | | 5.9 / 21.7 150 / 550 | | |
| Minimum Mold Size | in mm | 10.4 x 9.4 265 x 240 | | | | | |
| Maximum Mold Weight (single platen) | lbs kg | 2,292 1,040 | | | | | |
| Maximum Mold Weight (double platen) | lbs kg | 1,940 880 | | | | | |
| Platen Size (H x V) | in mm | 26 x 24 660 x 610 | | | | | |
| Distance Between Tie Rods (H x V) | in mm | 18.1 x 16.1 460 x 410 | | | | | |
| Tie Rod Diameter | in mm | 2.76 70 | | | | | |
| Euromap 6 Dry Cycle Time* | sec | 1.74 | | | 1.49 (high speed) | | |
| Mold locating ring inside diameter | in mm | 4.0 101.6 | | | | | |

Notes

- 1) All machine dimensions and specifications are subject to change. Values are for reference only. All general assembly drawings or visuals included herein are for reference only. Please consult the general assembly drawing from a Milacron representative.
- 2) * Increased tonnage may affect max clamp speed



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