

V-LINE® High-Cycle Ultra-Compact Vertical Rotary
Injection Molding Machine

HCO3VRE

*Flexibly responds to various types of
small precision parts and quick delivery
Ultra-high cycle, ultra-compact, ultra-stable
injection molding machine*

Stable molding by V-LINE®

The V-LINE is the plasticization and injection unit which enables stable measurement and injection, realized by eliminating the destabilizing factors during the plasticization measurement and injection, by separating the plasticization and injection. Accordingly, the molding of small precision parts which require advanced technology, can be performed stably even at a high-cycle.

Electromotive direct pressure clamping system

The adoption of the four tie bars ensures excellent straightness and high rigidity, where the mold clamping force is distributed uniformly. The load reduced by applying an optimal contact pressure to the mold by stable mold closing and mold clamping, reduces maintenance and improves the life of the mold.

Ultra-high cycle molding

The clamping system which performs mold closing and mold clamping in one motion, and a belt driven rotary table, realized 0.9 seconds per cycle. (0.3 seconds each for mold closing, mold clamping, table rotation, and mold opening)

* With two-sided lower mold of 36 kg, and mold opening/closing stroke of 80 mm

* Equivalent to dry operation

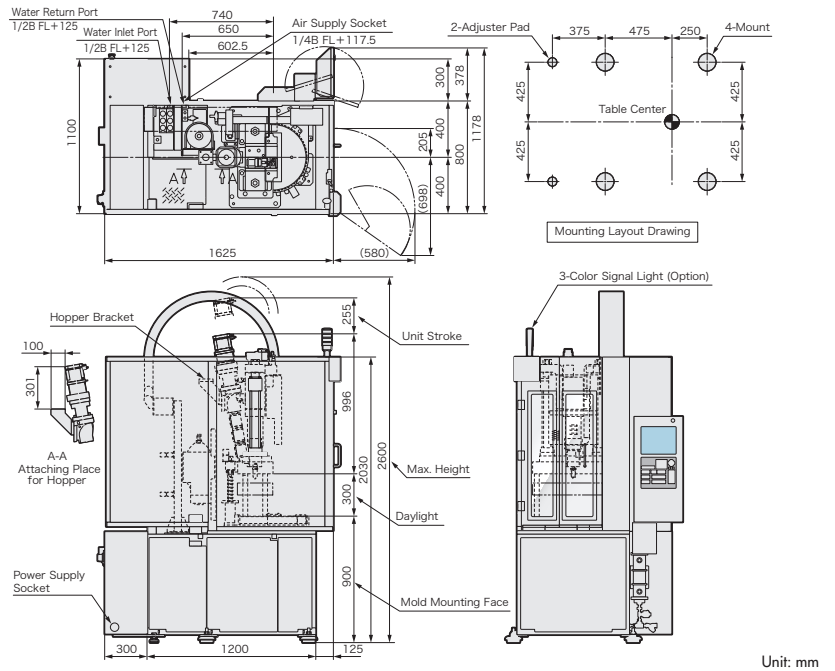


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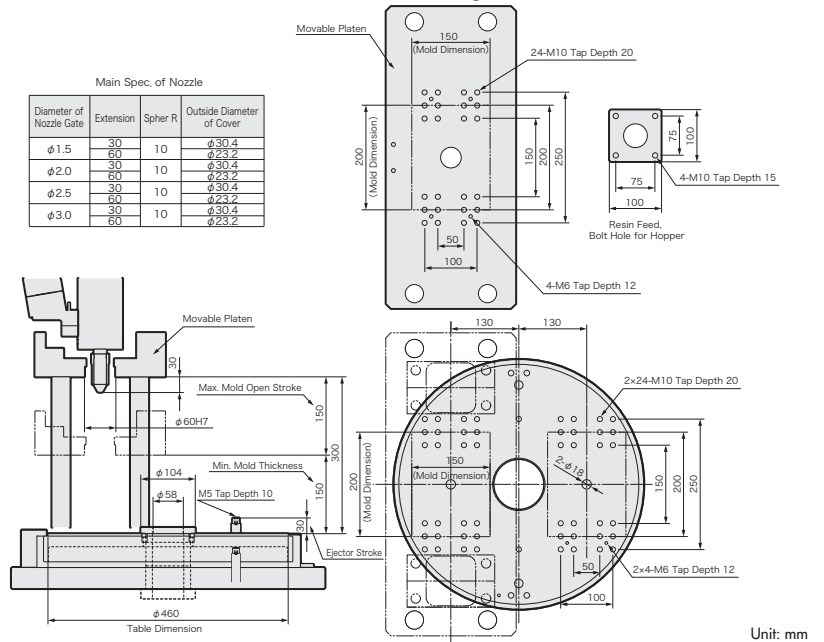
■ Spec.

Clamping Unit		
Max. clamping force	kN	29.4
Max. mold size	mm	180 × 150
Turntable dimensions	mm	Ø460
Open daylight	mm	300
Min. mold thickness	mm	150
Ejector stroke	mm	30
Plasticization & injection unit		
Screw diameter	mm	14
Plunger diameter	mm	8 12
Max. injection pressure	MPa	197
Theoretical injection volume	cm ³	2 4.5
Max. injection speed	mm/s	500 400
Plasticization capacity	kg/h	5
Machine dimensions / Weight		
Machine dimensions (L x W x H)	mm	1625 × 1178 × 2600
Machine weight	kg	1900
Power supply unit		
Power supply input specification		AC200V 50/60Hz
NC unit		Independently developed CNC
Total electric capacity	kVA	29

■ Machine Dimensions & Installation Drawing



■ Mold Installation Dimensions Drawing



Main Spec. of Nozzle

Diameter of Nozzle Gate	Extension	Spher R	Outside Diameter of Cover
φ1.5	30	10	φ30.4
	60	10	φ23.2
φ2.0	30	10	φ30.4
	60	10	φ23.2
φ2.5	30	10	φ30.4
	60	10	φ23.2
φ3.0	30	10	φ30.4
	60	10	φ23.2

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