eV-LINE Electric Injection Molding Machine

MS200

Based on high accuracy and stable molding by V-LINE®, developed "eV - LINE" compatible electric motor and a new mold clamping mechanism, Improvement of productivity and energy saving by high cycle

Electric V-LINE®

The injection and plasticizing apparatus using the V-LINE® system, with characteristics that ensure precise reproducibility, is now powered by a servomotor. Measurements and positioning data for the injection locations are controlled in a closed loop to improve the precision of positioning, achieving remarkably stable repetitions of the plasticizing, measuring, and injection cycle. The line of injection units with plungers of 40 mm and 50 mm in diameters include models that emphasize speed and models that emphasize pressure, allowing you to choose the unit that best suits the molded product type.

Electric clamping action

With the servo motor drive and adoption of the mold clamping device by the original toggle link mechanism shortened the mold opening and closing cycle. The movable platen is supported by a linear guide to improve the stability of the mold orientation. The power design for these products significantly reduces power usage while contributing to quieter operation.

Operation panel focused on intuition

Offering selector type switches, the control panel has been developed especially for the MS200. The ability to move the switches in the same direction in which you want each unit to move results in a more intuitive operating experience and helps simplify molding operations.

ECO Friendly Reduce waste Quiet

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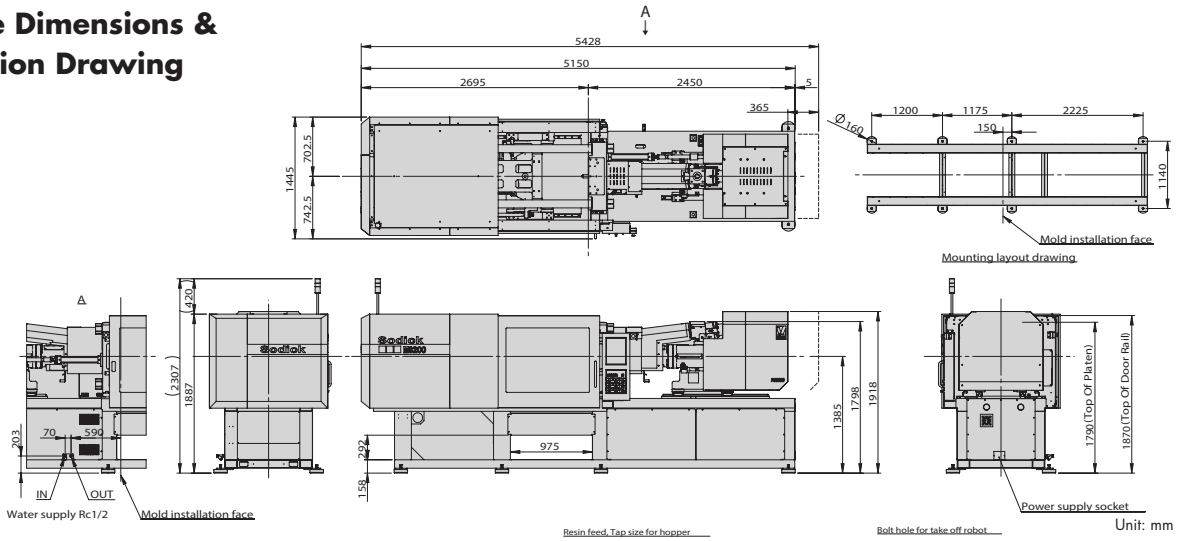
Spec.

Clamping Unit		
Maximum clamping force	kN	1960
Tie bar distance (W x L)	mm	560 x 560
Open daylight	mm	1000
Min./Max. mold thickness	mm	250 / 550

Plasticization & Injection Unit				
Screw diameter	mm	40	50	50
Plunger diameter	mm	40		50
Theoretical injection volume	cm^3	251.3		392.7
Max. injection speed	mm/s	300	200	200
Max. injection pressure *1, *2	MPa	200	275	200
Max. holding pressure *1, *2	MPa	160	220	160
Machine dimensions / Weight				
Machine dimensions (L x W x H) mm	mm	5353x1445x1918		5428x1445x1918
Machine weight	kg	8000	8200	8400

*1: Maximum injection pressure and maximum holding pressure are calculated output values for injection units. Actual resin pressure does not necessarily reflect these values.
*2: Due to injection motor duty cycles, the maximum injection pressure and maximum holding pressure may not be achievable when repeated in rapid succession.

Machine Dimensions & Installation Drawing

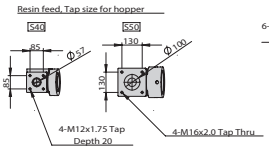


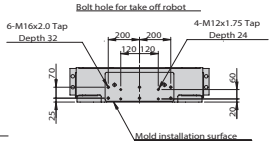
Unit: mm

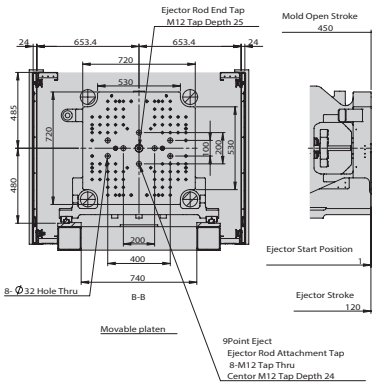
Mold Installation Dimensions Drawing

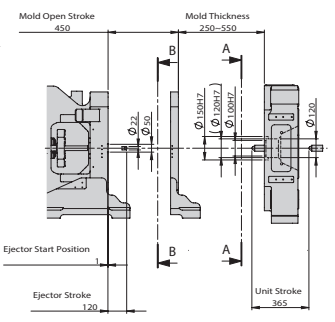
Main spec of nozzle (P40/P50)

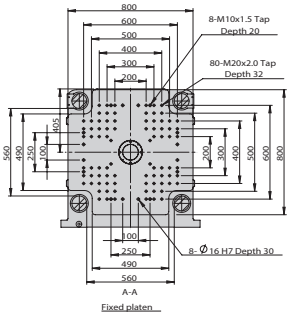
Diameter of nozzle gate	Extension	Sphere R	Outside diameter of cover
φ1.5	80	10	φ38.6
φ2.0	80	10	φ38.6
φ2.5	80	10	φ38.6
φ3.0	80	10	φ38.6
φ3.5	80	10	φ38.6
φ4.0	80	10	φ38.6











Unit: mm

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