

High Cycle Molding of Thin-Wall Multi-Layer Container



NEX 220 III-50ETN

Electric Type Injection Molding Machine
(Equipped with options) (Japanese specification)



Product:Thin-wall multi-layer
beverage container
Material:PP/PE
Molding cycle:8.4sec
of cavity:4

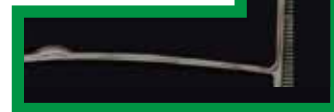
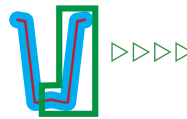
Multi-Layer Container Molding Technology

NISSEI original hot runner valve gate technology permits the core layer to flow evenly to the tip. This system handles multi-cavity molding of multi-layer containers, which is difficult to do using conventional methods.

EVOH (ethylene vinyl alcohol copolymer) is used for the core layer to provide gas barrier property, preventing deterioration of the contents.

IML (In-Mold Labeling) System

Its 4-layer structure, which is a combination of 0.7mm two-sort three-layer structure and IML (in-mold labeling), improves preservability and appearance, adding high-value to the products.



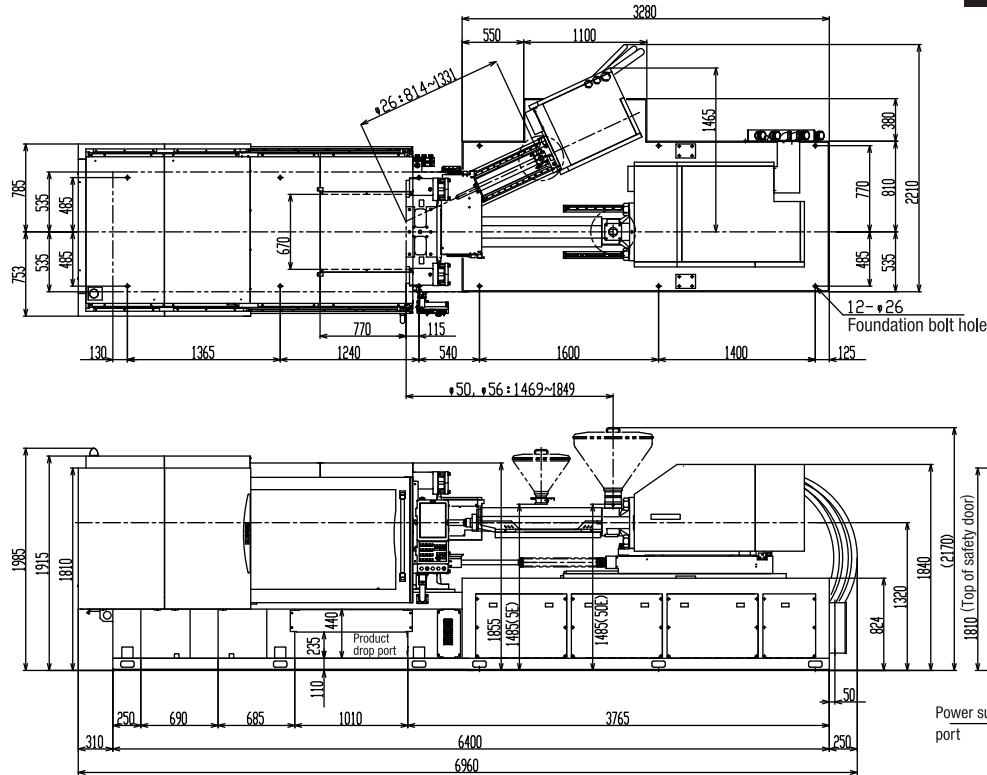
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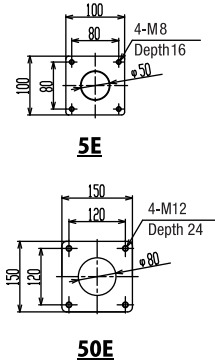
Specification item			50E	5E	
Injection	Screw diameter	mm	50	26	
	Injection capacity	cm ³	403	49	
	Plasticization capacity (PS)	kg/h	115	23	
	Max. injection pressure	MPa	202	196	
	Injection rate	cm ³ /s	530	265	
	Injection velocity	mm/s	270	500	
	Screw velocity	rpm	0 ~ 250	0 ~ 350	
	Hopper capacity (Optional)	L	90	15	
Clamping	Clamping force	kN	2160		
	Clamping stroke	mm	550		
	Mold thickness	mm	275		
	Max. daylight opening	mm	1230		
	Tie bar clearance (H×V)	mm	600 × 610		
	Die plate dimensions (H×V)	mm	920 × 870		
	Min. mold dimensions (H×V)	mm	400 × 370		
Ejector stroke	mm	150			
Others	Heater band capacity	kW	18.61	5.88	
	Main breaker capacity	A	-		
	Machine dimensions	L	m	6.96	
		W	m	2.29	
		H	m	1.99	
	Floor dimensions (L×W)	m	6.40 × 1.36		
Machine weight	t	-			

- Actual plasticizing capacity may vary, depending on the molding conditions and materials used.
- The specifications are subject to change without notice due to performance upgrades.
- 1MPa=10.2kgf/cm²≒10kgf/cm², 1kN=0.102tf≒0.1tf

EXTERNAL VIEW

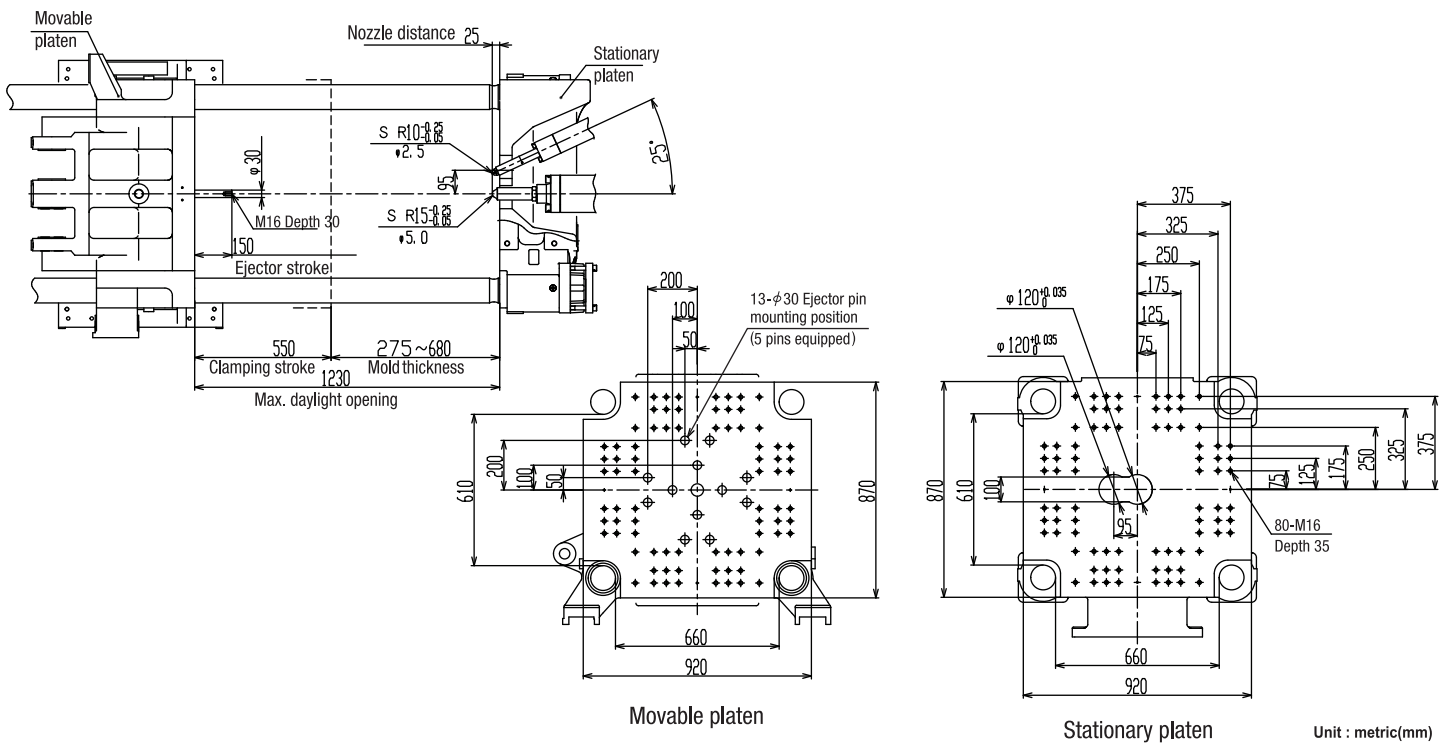


HOPPER FIXATION DIAGRAM



MOLD ATTACHMENT DIAGRAM

*The minimum mold dimensions of 400 mm (H) × 370 mm (V) are required in order to achieve the maximum clamping force.



Unit : metric(mm)

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Specifications, dimensions, designs, and other contents of this flyer are subject to change without notice due to continuous performance improvement.