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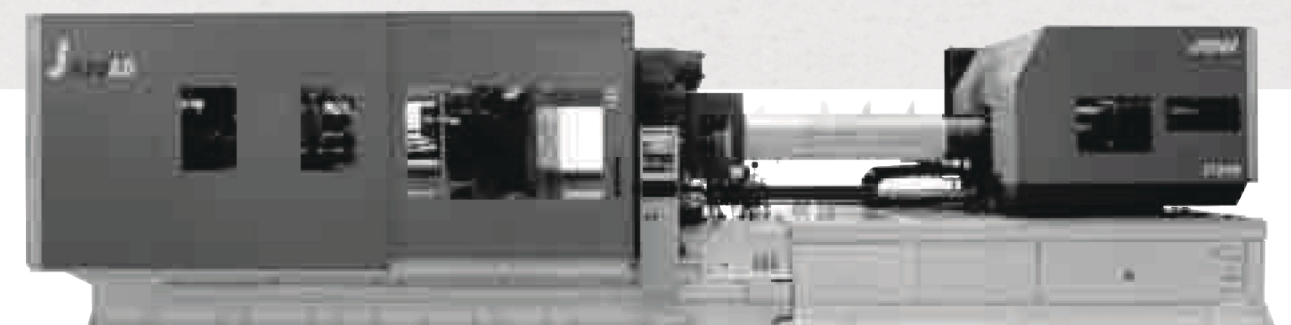
E-mail: info@jst.co.th



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JAD SERIES

Electric Servo Drive Injection Molding Machine



Specifications

Model	J550AD	J1000AD
	J650AD	J1300AD
	J850AD	J1800AD
	J850ADW	

JSW



JQA-QMA13993
JQA-EM6416

Performance Table

Equipment Dimensions and Mold Related Dimensions

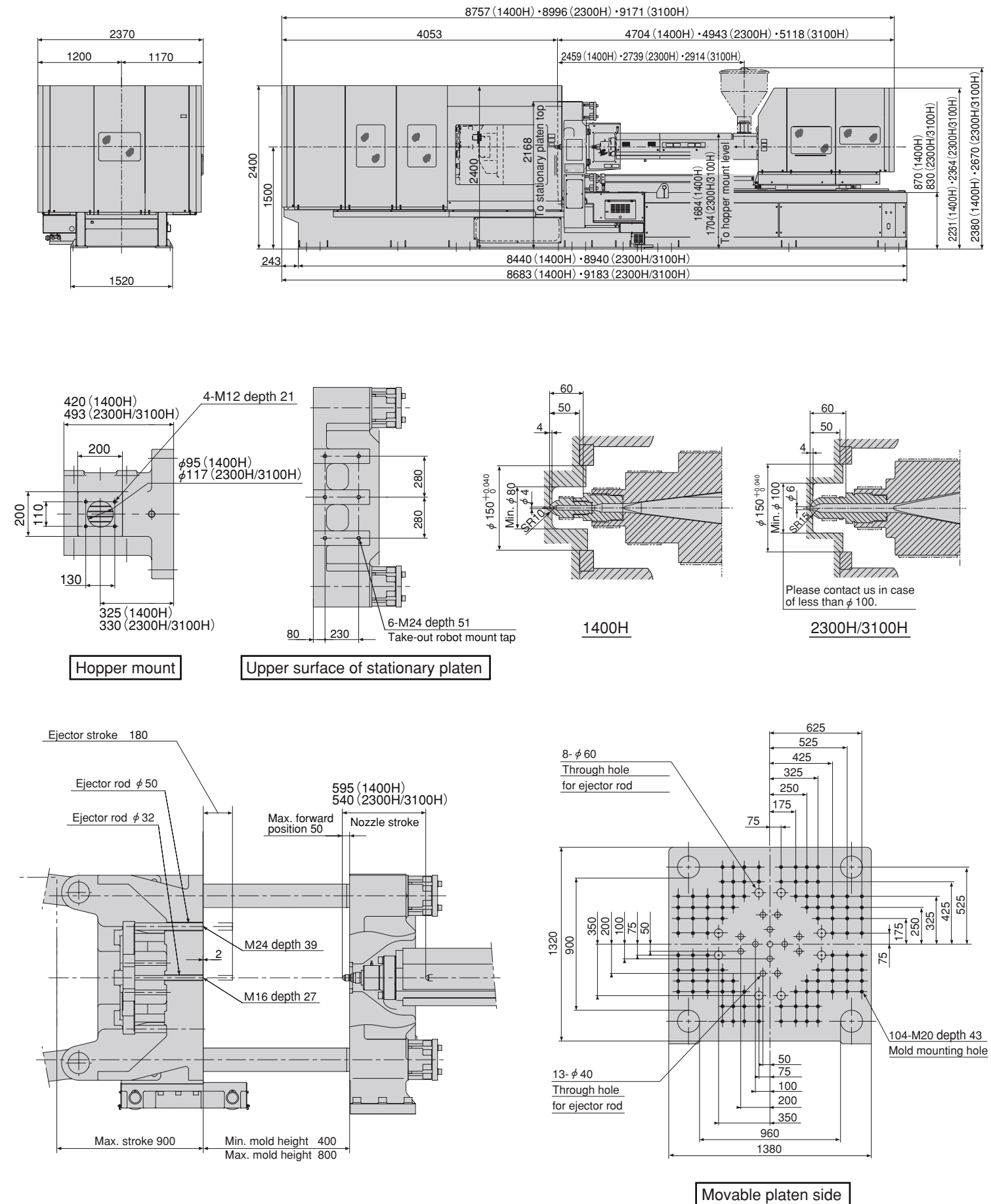
Unit	Model	J550AD							
		1400H			2300H		3100H		
Injection Unit	Item								
	Screw barrel type	K (Option)	A	B	A	B	A	B	
	Screw diameter mm	66	76	84	84	92	92	100	
	Screw stroke mm	300			420		460		
	Theoretical injection capacity cm³	1026	1361	1663	2328	2792	3058	3613	
	Injection capacity (GP-PS) g	934	1238	1513	2118	2541	2783	3288	
	Injection pressure (Max.) MPa {kgf/cm²}	241 {2450}	182 {1850}	149 {1510}	190 {1930}	158 {1610}	185 {1880}	156 {1590}	
	Holding pressure (Max.) MPa {kgf/cm²}	216 {2200}	163 {1660}	134 {1360}	171 {1740}	142 {1440}	167 {1700}	140 {1420}	
	Injection speed mm/s	160			160		160		
	Injection rate cm³/s	547	726	887	887	1064	1064	1257	
	Plasticizing rate (GP-PS) kg/h	237	338	418	420	470	490	540	
	Screw speed min ⁻¹	210			200	180	180	165	
	Nozzle touch force kN {tf}	40 {4.1}			65 {6.6}		65 {6.6}		
	Nozzle stroke from platen mm	50							
	Type of nozzle	Open nozzle							
	Barrel temperature control	Barrel 4, Nozzle 1			Barrel 5, Nozzle 1				
	Heater wattage kW	34.7			39.2		44.5		
	Clamping Unit	Mechanism	Double toggle						
		Clamping force kN {tf}	5400 {550}						
Daylight opening (Max.) mm		1700							
Opening stroke (Max.) mm		900							
Mold height mm		400~800							
Platen speed m/min		70							
Distance between tie-bars (HXV) mm		960×900							
Platen size (H×V) mm		1380×1320							
Ejector point		21 points							
Ejector force kN {tf}		130 {13.3}							
Ejector stroke mm	180								
General	Machine weight t	30			32		32		
	Machine dimensions (L×W×H) m	8.76×2.37×2.40			9.18×2.37×2.40		9.18×2.37×2.40		

Remarks:

- 1.Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
- 2.The theoretical injection capacity is (cross sectional area of barrel) × (stroke of screw) .
- 3.The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
- 4.The plasticizing rate is applicable for GP-PS.
- 5.PC, HPVC, other engineering plastic, etc., low temperature setting and high speed molding may require a high torque depending on the grade or molding conditions. Please contact us if you plan.

Note:

1. Due to continual improvements, specifications are subject to change without notice.
2. Actual figures of the specification will vary depending on final machine configuration.
Please contact us if you require more specific data.
3. Performance specifications are based on theoretical data.
4. 1MPa=10.2 kgf/cm², 1kN=0.102tf



Equipment Dimensions and Mold Related Dimensions

Hopper mount

- Top view dimensions: 2449 (total width), 1240 (left section), 1209 (right section), 1510 (bottom width).
- Side view dimensions: 2425 (total height), 1500 (main body height), 243 (base thickness).
- Front view dimensions: 4608 (total length), 4973 (2300H) • 5148 (3100H) • 5692 (3900H) (length to hopper level), 2769 (2300H) • 2944 (3100H) • 3109 (3900H) (length to stationary platen top), 2400 (height to stationary platen top), 2208 (height to stationary platen top), 9525 (2300H/3100H) • 10509 (3900H) (length to hopper level), 9768 (2300H/3100H) • 10752 (3900H) (length to hopper level), 830 (height to hopper level), 2364 (2300H/3100H) • 2427 (3900H) (height to hopper level).

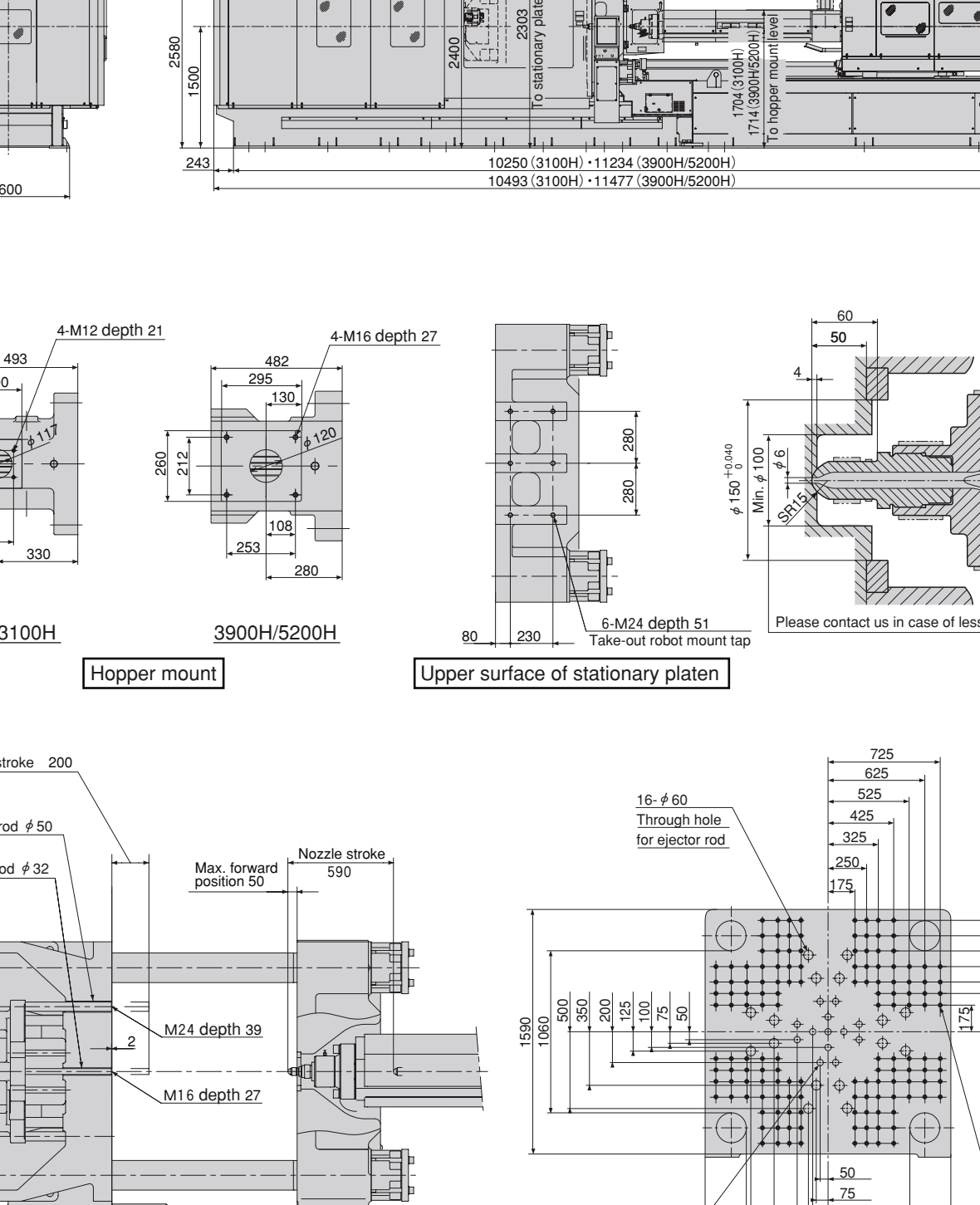
Upper surface of stationary platen

- Left side view dimensions: 493 (width), 200 (depth), 110 (depth), 130 (depth), 330 (depth), 4-M12 depth 21.
- Middle side view dimensions: 482 (width), 295 (depth), 130 (depth), 120 (depth), 260 (depth), 212 (depth), 108 (depth), 253 (depth), 280 (depth), 4-M16 depth 27.
- Right side view dimensions: 60 (width), 50 (width), 4 (width), 280 (height), 280 (height), 6-M24 depth 51, Take-out robot mount tap.
- Bottom view dimensions: 80 (width), 230 (width).
- Note: Please contact us in case of less than φ 100.

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Equipment Dimensions and Mold Related Dimensions



10481 (3100H) • 11025 (3900H) • 11265 (5200H)

2569

1315 1254

1600

2580

1500

5313

5168 (3100H) • 5712 (3900H) • 5952 (5200H)

2964 (3100H) • 3129 (3900H) • 3369 (5200H)

2400

2303

To stationary platen top

1704 (3100H)
1714 (3900H/5200H)

To hopper mount level

830

2364 (3100H) • 2427 (3900H/5200H)
2670 (3100H) • 2948 (3900H/5200H)

243

10250 (3100H) • 11234 (3900H/5200H)
10493 (3100H) • 11477 (3900H/5200H)

4-M12 depth 21

493

200

110

130

330

3100H

4-M16 depth 27

482

295

130

260

212

108

253

280

3900H/5200H

280

280

80

230

6-M24 depth 51

Take-out robot mount tap

60

50

4

4

Min. $\phi 100$

$\phi 150^{+0.040}_0$

50

4

Please contact us in case of less than $\phi 100$.

Hopper mount

Upper surface of stationary platen

Ejector stroke 200

Ejector rod $\phi 50$

Ejector rod $\phi 32$

Max. forward position 50

Nozzle stroke 590

M24 depth 39

M16 depth 27

2

Max. stroke 1200

Min. mold height 500

Max. mold height 1100

16- $\phi 60$

Through hole for ejector rod

725

625

525

425

325

250

175

1590

1060

500

350

200

125

100

75

50

13- $\phi 40$

Through hole for ejector rod

50

75

100

125

200

350

500

1060

1590

144-M24 depth 51

Mold mounting hole

Movable platen side

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Equipment Dimensions and Mold Related Dimensions

[illegible]

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Performance Table

Equipment Dimensions and Mold Related Dimensions

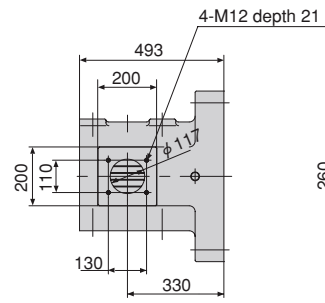
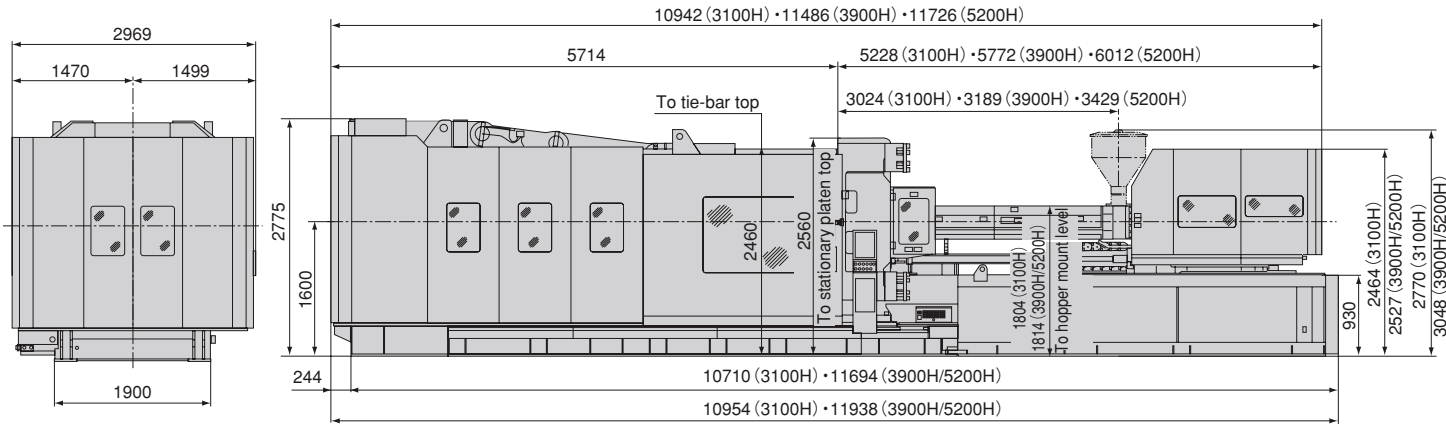
Unit	Model	J1000AD					
		3100H		3900H		5200H	
Injection Unit	Screw barrel type	A	B	A	B	A	B
	Screw diameter mm	92	100	100	110	110	120
	Screw stroke mm	460		500		550	
	Theoretical injection capacity cm³	3058	3613	3927	4752	5227	6220
	Injection capacity (GP-PS) g	2783	3288	3574	4324	4757	5660
	Injection pressure (Max.) MPa {kgf/cm²}	185 {1880}	156 {1590}	185 {1880}	153 {1560}	175 {1780}	147 {1490}
	Holding pressure (Max.) MPa {kgf/cm²}	167 {1700}	140 {1420}	167 {1700}	138 {1400}	158 {1610}	132 {1340}
	Injection speed mm/s	160		160		155	
	Injection rate cm³/s	1064	1257	1257	1521	1473	1753
	Plasticizing rate (GP-PS) kg/h	490	540	550	620	630	700
	Screw speed min⁻¹	180	165	165	150	150	140
	Nozzle touch force kN {tf}	65 {6.6}					
	Nozzle stroke from platen mm	50					
	Type of nozzle	Open nozzle					
	Clamping Unit	Barrel temperature control	Barrel 5, Nozzle 1				
Heater wattage kW		44.5		46.3		53.7	
Mechanism		Double toggle					
Clamping force kN {tf}		9810 {1000}					
Daylight opening (Max.) mm		2500					
Opening stroke (Max.) mm		1300					
Mold height mm		500~1200					
Platen speed m/min		70					
Distance between tie-bars (HXV) mm		1320×1320					
Platen size (H×V) mm		1900×1800					
General	Ejector point	29 points					
	Ejector force kN {tf}	230 {23.5}					
	Ejector stroke mm	200					
	Machine weight t	61		64		64	
	Machine dimensions (L×W×H) m	10.95×2.97×2.78		11.94×2.97×2.78		11.94×2.97×2.78	

Remarks:

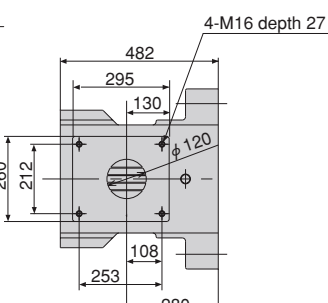
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Note:

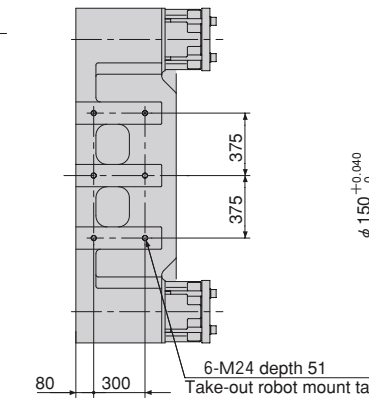
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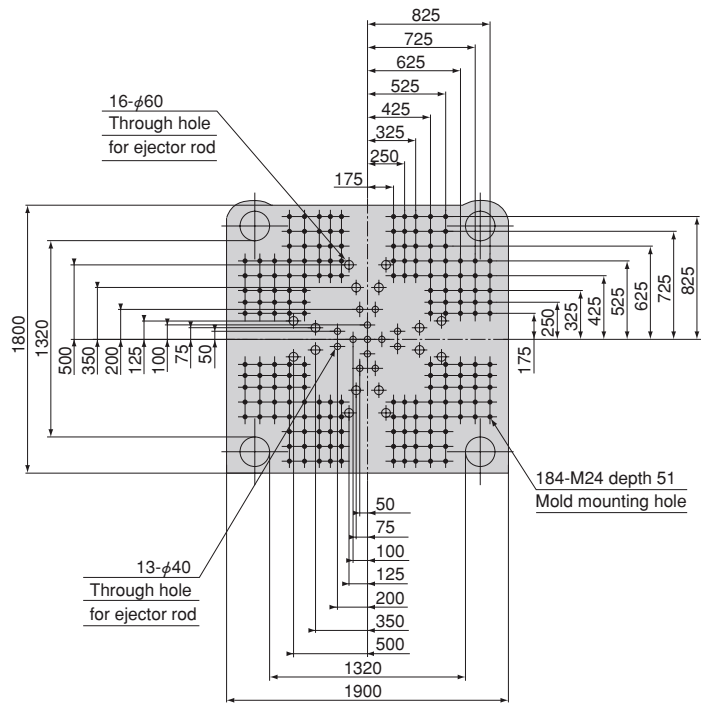
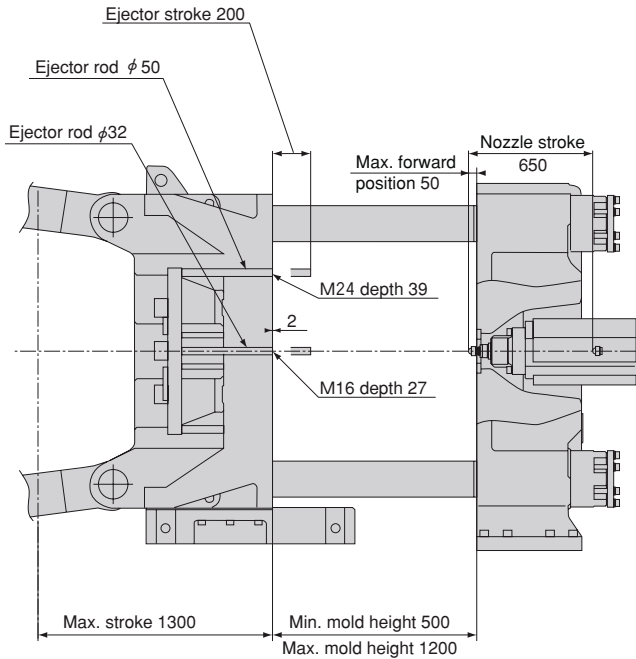
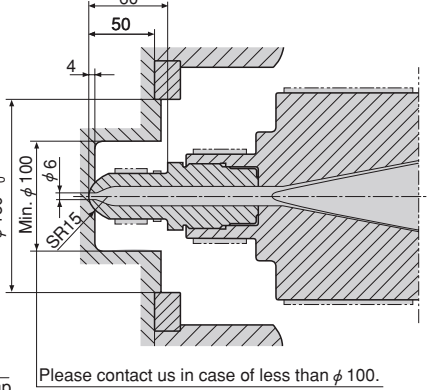
3100H



3900H/5200H



Upper surface of stationary platen



Movable platen side

Equipment Dimensions and Mold Related Dimensions

Hopper mount

3900H/5200H

7500H

Upper surface of stationary platen

3900H/5200H

7500H

Movable platen side

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Equipment Dimensions and Mold Related Dimensions

Technical drawing of the Movable platen side of a mold machine, showing various views and dimensions for different models (5200H, 7500H, 9500H).

Top View Dimensions:

- Overall width: 3700
- Distance between tie-bar tops: 1835, 1865
- Overall length: 7199
- Distance from tie-bar top to stationary platen top: 6292 (5200H) • 6765 (7500H) • 7268 (9500H)
- Distance from stationary platen top to hopper mount level: 3709 (5200H) • 3992 (7500H) • 4339 (9500H)
- Distance from hopper mount level to mold mounting hole: 1280 (5200H) • 1210 (7500H) • 960 (9500H)
- Distance from mold mounting hole to tie-bar top: 13424 (5200H) • 13904 (7500H) • 14130 (9500H)
- Distance from mold mounting hole to tie-bar top (alternative): 13753 (5200H) • 14233 (7500H) • 14459 (9500H)
- Distance from tie-bar top to hopper mount level: 3030, 3145
- Distance from hopper mount level to mold mounting hole: 2877 (5200H) • 2947 (7500H/9500H)
- Distance from mold mounting hole to tie-bar top (alternative): 3398 (5200H) • 3443 (7500H) • 3478 (9500H)

Side View Dimensions:

- Overall height: 3415
- Distance from tie-bar top to hopper mount level: 1950
- Distance from hopper mount level to mold mounting hole: 329
- Distance from mold mounting hole to tie-bar top: 13424 (5200H) • 13904 (7500H) • 14130 (9500H)
- Distance from mold mounting hole to tie-bar top (alternative): 13753 (5200H) • 14233 (7500H) • 14459 (9500H)

Front View Dimensions:

- Distance from tie-bar top to hopper mount level: 482, 295, 130, 260, 212, 108, 253, 280
- Distance from hopper mount level to mold mounting hole: 550, 295, 130, 260, 212, 108, 253, 350
- Distance from mold mounting hole to tie-bar top: 581, 310, 145, 260, 212, 108, 253, 371
- Distance from tie-bar top to hopper mount level: 4-M16 depth 27
- Distance from hopper mount level to mold mounting hole: 4-M16 depth 27
- Distance from mold mounting hole to tie-bar top: 4-M16 depth 27

Back View Dimensions:

- Distance from tie-bar top to hopper mount level: 230, 200, 200, 450, 200
- Distance from hopper mount level to mold mounting hole: 10-M24 depth 51 Take-out robot mount tap
- Distance from mold mounting hole to tie-bar top: 230, 200, 200, 450, 200

Bottom View Dimensions:

- Distance from tie-bar top to hopper mount level: 120 (7500H) • 150 (9500H)
- Distance from hopper mount level to mold mounting hole: 50, 4, 60, 50, 4, 60, 50, 4, 60, 50
- Distance from mold mounting hole to tie-bar top: 120 (7500H) • 150 (9500H)

Other Dimensions:

- Distance from tie-bar top to hopper mount level: 150^{+0.040} Min. ϕ 100
- Distance from hopper mount level to mold mounting hole: 150^{+0.040} Min. ϕ 100
- Distance from mold mounting hole to tie-bar top: 150^{+0.040} Min. ϕ 100

Notes:

- Please contact us in case of less than ϕ 100.
- Please contact us in case of less than ϕ 100.

Labels:

- Hopper mount
- Upper surface of stationary platen
- Movable platen side

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Standard Equipment List

Item				
Injection and Plasticizing Unit	Open nozzle			
	N2000F barrel			
	Chrome plated screw		Note1	
	Purge cover (with limit switch)			
	Injection unit swiveling device (with limit switch)		Note2	
	Screw cold start prevention			
	Molding/Pause temperature select			
	Auto purging circuit			
	Nozzle retract select			
	Pull-back select			
	Auto grease lubrication			
	Injection/Metering programmed control	Injection/Holding pressure :1~6 Steps (Variable) Metering/Back pressure :1~3 Steps (Variable)		
	Holding pressure transfer select			
	Holding pressure control select	Step mode Slope mode		
	Barrel temperature control (PID)		Note3	
	Nozzle temperature control (PID/SSR)			
	Synchronous temperature rise control			
	Hopper flange temperature control			
	Soft pack servo control			
	HAVC (High Accuracy Volume Control)			
	IWCS (Injection Weight and Cushion Stability) control			
	Reverse seal control			
Clamping Unit	Grease-free toggle bushing			
	Auto grease lubrication			
	High-performance platen support			
	Flat press platen mechanism (Stationary side/Movable side)			
	Mold open/close and Ejector programmed control	Mold open/close : 4 Steps (Fixed) Ejector : 1~3 Steps (Variable)		
	Mold protection	1~3 Steps (Variable)		
	Ejector braking system		Note4	
	Electric-driven mold thickness adjusting device			
	Auto clamp force setting			
	Clamp force display			
	Clamp force feed back control			
	Toggle type injection compression function	A -mode B -mode Compression : 1~6 Steps (Variable)		
	Clamping safety device (Electrical/Mechanical)			
	Robot mounting holes			
	Compound action	Screw rotation during mold open/close Eject during mold open Injection during clamp up		
	Safety mat	Operator side step safety mat Under mold area safety mat		Note5

- Note 1. GP21 screw for Injection unit 1400H.
High-Melter MIII screw for Injection unit 2300H and higher.
- Note 2. Manual operation type for Injection unit 1400H.
- Note 3. Injection unit 1400H is controlled by SSR (non-contact).
Injection unit 2300H and higher are controlled by MC (contact).
- Note 4. Equipped as standard for J650AD and higher, optional for J550AD.
- Note 5. Safety mat on the top of the step is equipped as standard for J650AD and higher, optional for J550AD.
Safety mat on the top of the inter-platens bed is equipped as standard for J850ADW and higher (models with 1200mm or wider gap between tie-bars), optional for J850AD.

Item		
Controller	Touch panel 15” TFT color LCD controller	
	120 Mold condition storage (Internal memory)	Note6
	Soft start molding	
	Self diagnostics function	
	Help function	
	Pop-up display	
	Clock	
	Multi-language select (English, Chinese, Japanese)	
	Print screen by USB memory	
	USB printer port	Note7
	Overall setting screen	
	Pre-heat timer	
	Product takeout robot circuit	
	Attended/Unattended operation select	
	Emergency stop button	
	Safety key	
Monitor	Actual value display	
	Mold temperature display	Note8
	Injection/Metering waveform monitor	
	Oscilloscope waveform monitor	
	Injection/Metering waveform storage	
	Barrel temperature monitor	
	Injection pressure monitor	
	Statistical graph	
	Production monitor	
	Cumulative operating hour display	
	Cycle monitor	
	Molding condition upper/lower limit monitor	Note9
	Inspection and Maintenance guide	Note10
	Heater system fault alarm	
	Injection pressure overshoot alarm	
Others	Grease lubrication fault alarm	
	Servo fault alarm	
	Unreleased clamp alarm	
	Position calibration request	
	Alarm buzzer	
	Alarm history	
	Set value history	
	Safety compliance to JIMS K1001	
	Cooling water closed circuit for feed throat	
	Mold cooling water circuit (Machine bed)	
	Accessories (Maintenance tools, Ejector rods, etc.)	

- Note 6. The external memory is capable of storing conditions for 1,000 molds.
Prepare commercial USB data storage media.
- Note 7. The printer and printer cables are options.
- Note 8. Temperature sensors and electric wiring are not included.
- Note 9. Maximum of 16 items and alarms can be selected out of the following monitor items.
①Cycle time ②Injection time ③Metering time ④Cushion position
⑤Holding pressure end position ⑥Injection pressure
⑦Holding pressure transfer pressure ⑧Screw back pressure
⑨Metering end position ⑩Injection start position ⑪Holding pressure transfer position
⑫Mold open time ⑬Mold close time ⑭Metering torque
⑮Holding pressure transfer speed ⑯Mold inner pressure (option)
⑰Clamp force ⑱Shift amount (HAVC) ⑲End speed (HAVC)
- Note 10. Indicates inspection times and items.

Options List

Item			
Injection Unit	Long nozzle		
	Shut-off nozzles (Pneumatic type and Hydraulic type)		
	LSP-2 screw (Abrasion-resistant type)		
	Wide selection of screws & barrels	Screw & Barrel for high plasticization	
		Screw & Barrel for optical application	
		High dispersion screw	
		High viscosity resin screw	
		Long-fiber resin screw	
		Special screw	Note1
	Barrel Insulation cover		
Barrel blower cooling unit			
Hopper (Option for all the region)			
High holding pressure molding (for long-time holding pressure molding)		Note2	
Electric motor driven IU advance/retract			
Vented barrel			
Clamping Unit	Daylight extension		
	T-slot platen		
	Locating ring		
	Air jet		
	Core pull device (Pneumatic type and Hydraulic type)	Note3	
	Valve gate device (Pneumatic type and Hydraulic type)	Note3	
	Auto safety gate open		
	Auto safety gate open/close		
	Safety mat	Note4	
	Safety footplate		
	Mold clamber		
	Mold setup device		
	Magnet mold Clamber	Note5	
	Cooling water manifold on platen		
	Hydraulic power pack		
Ejector braking system		Note6	

- Note 1. Regarding special screws, contact us separately.
- Note 2. Enables a long holding time and high holding pressure molding.
The injection speed may become lower.
- Note 3. For the hydraulic type, a separate hydraulic unit is needed.
- Note 4. Safety mat on the top of the step is equipped as standard for J650AD and higher.
Safety mat on the top of the inter-platens bed is equipped as standard for J850ADW and higher (models with 1200mm or wider gap between tie-bars).
- Note 5. When applied, extended nozzle is required.
Note that the usable mold thickness range will change.
- Note 6. Equipped as standard for J650AD and higher.

Item		
Electrical Instrumentation and Control	Multi-language select (French, Spanish or Hangul)	Note7
	Simple centralized monitor system Link10	Note8
	Centralized control system NET100	Note9
	Heater burnout alarm	
	Mold temperature display (with mold temperature upper/lower limit alarm)	
	Mold temperature control (with mold temperature upper/lower limit alarm)	
	Printer (with printer cable)	
	Password Function	
	Hot runner control circuit	
	Unscrewing motor circuit	
	Ejector gate cutting circuit	
	Ejector plate return confirmation circuit	
	Injection speed:10 Steps control	
	Injection speed slope control	
	Foaming molding control	
Skin adhesion molding control		
D.I.C. (Dual Integrated Control) with Yushin Robot		
Others	Hopper stage	
	Cooling water failure warning	
	Leveling pad for installation	Note10
	Rotary warning light	
	Export specification	Note11
	Designated color	Note12

- For details of each option, confirm in the specifications for the options.
- Note 7. Regarding the other languages, contact us separately.
English and Chinese are equipped as standard.
- Note 8. The LINK10 has actual data collection, molding condition control and remote control functions.
- Note 9. The NET100 has quality control and production control function in addition to the functions that the LINK10 has.
- Note 10. May not be applicable depending on the model.
- Note 11. Regarding the export specifications, separate discussion is needed in some cases, depending upon the export destination.
- Note 12. Designate colors, referring to color samples or Munsell codes.

Utilities

■ Total Power Capacity

Machine Model		Total Power Capacity (kVA)
J550AD	1400H	53.5
	2300H	58.3
	3100H	68.6
J650AD	2300H	59.9
	3100H	70.2
	3900H	84.9
J850AD J850ADW	3100H	70.4
	3900H	85.1
	5200H	88.1
J1000AD	3100H	71.2
	3900H	85.9
	5200H	88.9
J1300AD	3900H	86.3
	5200H	89.2
	7500H	96.7
J1800AD	5200H	90.6
	7500H	98.1
	9500H	150.9

Note: 1. Total power capacity does not include external outlets.
2. We recommend that the rated interrupting current of the main power supply breaker is more than 25 kA at AC400V/460V.

■ Cooling Water Capacity for Barrel Temperature Control

Injection Unit	Cooling Water Capacity for Barrel Temperature control (m³/h)
1400H	0.6
2300H	1.2
3100H	
3900H	1.6
5200H	
7500H	
9500H	
	2.8

Note:The above figures do not include the required quantity of water for the mold temperature controller.

■Hydraulic Oil Tank Capacity

機 種	Hydraulic Oil Tank Capacity (L)
J550AD	30
J650AD	
J850AD	
J850ADW	
J1000AD	
J1300AD	
J1800AD	