

# JADS<sup>®</sup> SERIES

All Electric Servo Drive  
Injection Molding Machine

J550ADS

J650ADS

J850ADS

J850ADSW

Specifications for Europe

Made in HIROSHIMA

**JSW**



ISO 9001  
ISO 14001

JQA-QMA13993  
JQA-EM6416 (広島製作所)

Performance Table

Unit	Item	Model	J550ADS								
			1400H			2300H			3100H		
Injection Unit	Screw diameter	mm	66	76	84	76	84	92	84	92	100
	Screw stroke	mm	300			420			460		
	Theoretical injection capacity	cm <sup>3</sup>	1026	1361	1663	1905	2328	2792	2549	3058	3613
	Injection capacity (GP-PS)	g	934	1238	1513	1734	2118	2541	2320	2783	3288
	Injection capacity (PP)	g	749	993	1214	1391	1699	2038	1861	2232	2637
	Injection pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	241(2450)	182(1850)	149(1510)	195(1980)	190(1930)	158(1610)	192(1950)	185(1880)	156(1590)
	Holding pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	216(2200)	163(1660)	134(1360)	176(1790)	171(1740)	142(1440)	173(1760)	167(1700)	140(1420)
	Injection speed	mm/s	160			160			160		
	Injection rate	cm <sup>3</sup> /s	547	726	887	726	887	1064	887	1064	1257
	Plasticizing capacity (GP-PS)	kg/h	237	338	418	400	450	470	490	510	530
	Plasticizing capacity (PP)	kg/h	160	230	290	280	310	320	340	350	370
	Screw speed	min <sup>-1</sup>	210			210	205	185	205	185	170
	Nozzle touch force	kN(tf)	45(4.6)			70(7.1)			70(7.1)		
	Nozzle stroke from platen	mm	50								
	Type of nozzle		Open nozzle (Tip type)			Open nozzle					
	Barrel temperature control		Barrel 5, Nozzle 1								
Heater wattage	kW	27.1			34.1			36.6			
Clamping Unit	Mechanism		Double toggle								
	Clamping force	kN(tf)	5390(550)								
	Daylight opening (Max.)	mm	1800								
	Opening stroke (Max.)	mm	900								
	Mold height	mm	400 ~ 900								
	Dry cycle (Euromap6)	s-mm	2.7 ~ 700								
	Distance between Tie-bars (H×V)	mm	1020×970								
	Platen size (H×V)	mm	1420×1320								
	Locating ring diameter	mm	150								
	Ejector point		21 points								
Ejector force	kN(tf)	130(13.3)									
Ejector stroke	mm	180									
General	Machine Weight	t	29			29			31		
	Machine Dimensions (L×W×H)	m	8.97×2.52×2.40			8.97×2.52×2.40			9.22×2.52×2.40		

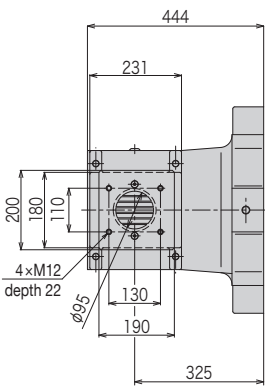
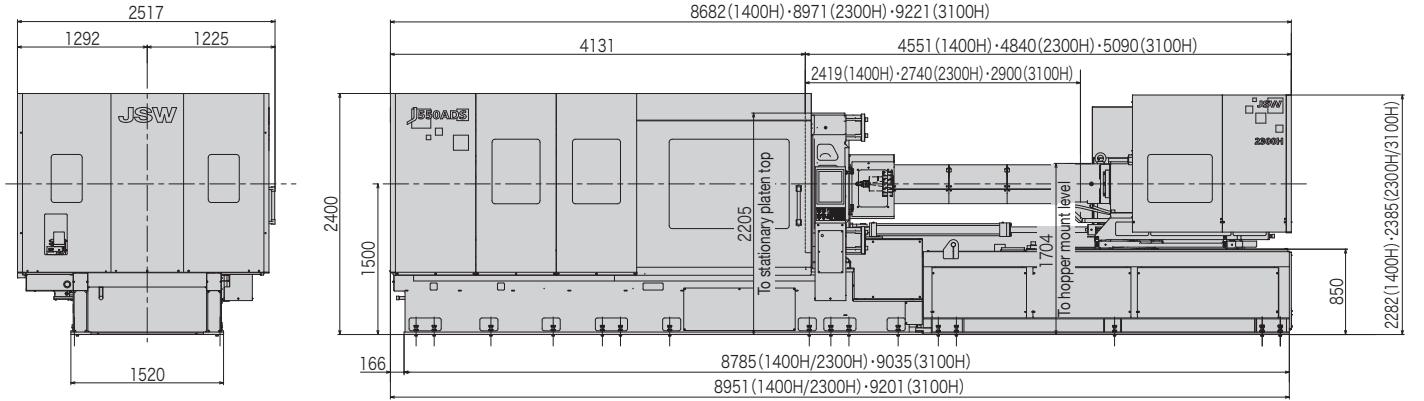
Remarks

- Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
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- The injection capacity is variable according to the grade of resin, molding conditions and mold.
- The values for plasticizing capacity are based on our standard test conditions.
- 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.

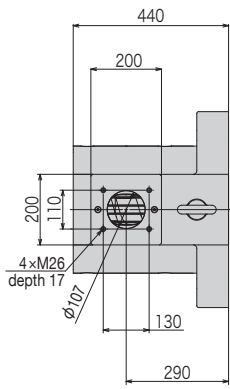
Note

- 1MPa=10.2kgf/cm<sup>2</sup>, 1kN=0.102tf
- Due to continual improvements, specifications are subject to change without notice.
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- Performance specifications are based on theoretical data.

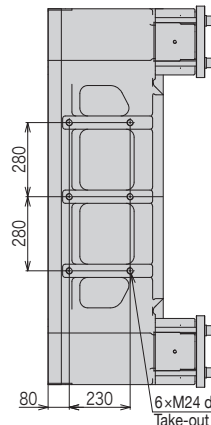
## Equipment Dimensions and Mold Related Dimensions



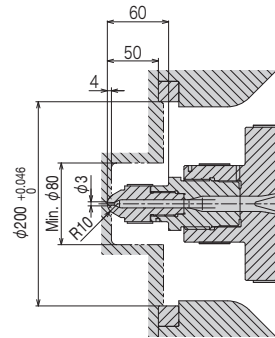
1400H



2300H/3100H



1400H

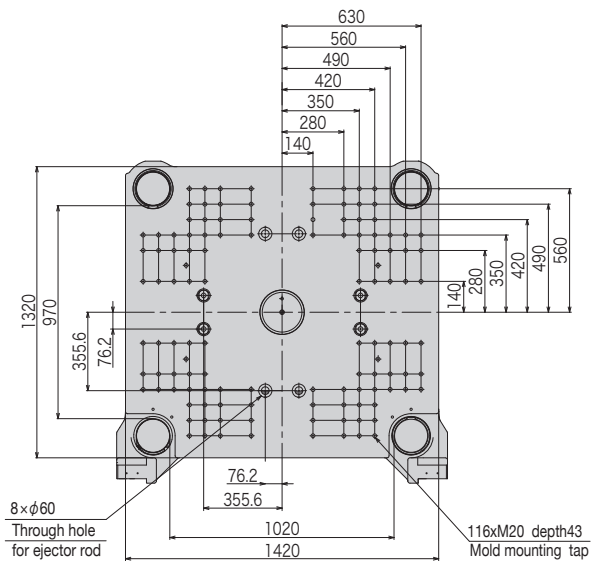
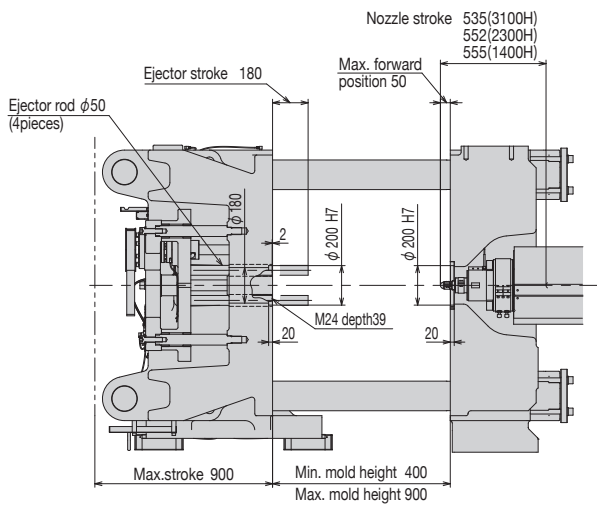


Please contact us in case of less than  $\phi 100$ .

2300H/3100H

Top of hopper frange

Top of stationary platen



Movable platen

Performance Table

Unit	Item	Model	J650ADS									
			2300H			3100H			3900H			
Injection Unit	Screw diameter	mm	76	84	92	84	92	100	92	100	110	
	Screw stroke	mm	420			460			500			
	Theoretical injection capacity	cm <sup>3</sup>	1905	2328	2792	2549	3058	3613	3324	3927	4752	
	Injection capacity (GP-PS)	g	1734	2118	2541	2320	2783	3288	3025	3574	4324	
	Injection capacity (PP)	g	1391	1699	2038	1861	2232	2637	2426	2867	3469	
	Injection pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	195(1980)	190(1930)	158(1610)	192(1950)	185(1880)	156(1590)	190(1930)	185(1880)	153(1560)	
	Holding pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	176(1790)	171(1740)	142(1440)	173(1760)	167(1700)	140(1420)	171(1740)	167(1700)	138(1400)	
	Injection speed	mm/s	160			160			160			
	Injection rate	cm <sup>3</sup> /s	726	887	1064	887	1064	1257	1064	1257	1521	
	Plasticizing capacity (GP-PS)	kg/h	400	450	470	490	510	530	560	580	610	
	Plasticizing capacity (PP)	kg/h	280	310	320	340	350	370	390	400	420	
	Screw speed	min <sup>-1</sup>	210	205	185	205	185	170	185	170	155	
	Nozzle touch force	kN(tf)	70(7.1)			70(7.1)			70(7.1)			
	Nozzle stroke from platen	mm	50									
	Type of nozzle		Open nozzle									
	Barrel temperature control		Barrel 5, Nozzle 1									
	Heater wattage	kW	34.1			36.6			43.3			
	Clamping Unit	Mechanism		Double toggle								
		Clamping force	kN(tf)	6370(650)								
		Daylight opening (Max.)	mm	2000								
Opening stroke (Max.)		mm	1000									
Mold height		mm	450 ~ 1000									
Dry cycle (Euromap6)		s-mm	2.9 – 800									
Distance between Tie-bars (H×V)		mm	1120 × 1070									
Platen size (H×V)		mm	1550 × 1450									
Locating ring diameter		mm	150									
Ejector point			25 points									
Ejector force		kN(tf)	190(19.4)									
Ejector stroke		mm	200									
General	Machine Weight	t	35			37			38			
	Machine Dimensions (L×W×H)	m	9.35 × 2.65 × 2.40			9.60 × 2.65 × 2.40			10.05 × 2.65 × 2.52			

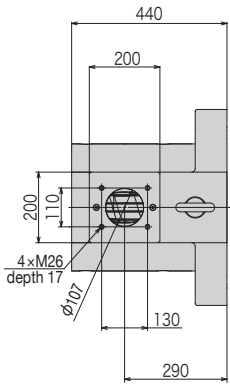
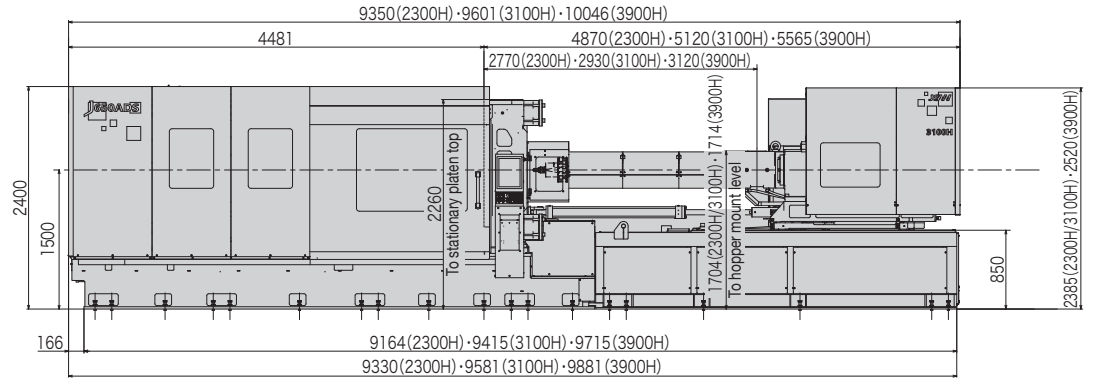
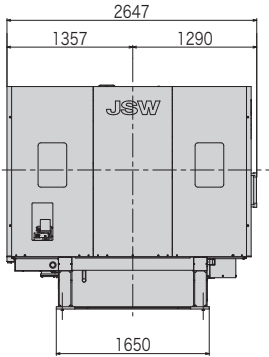
Remarks

1. Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
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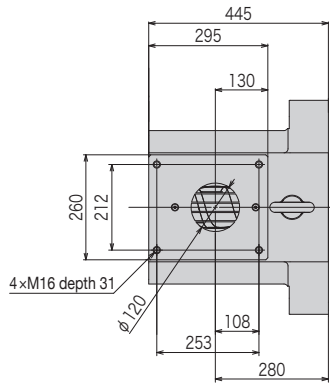
Note

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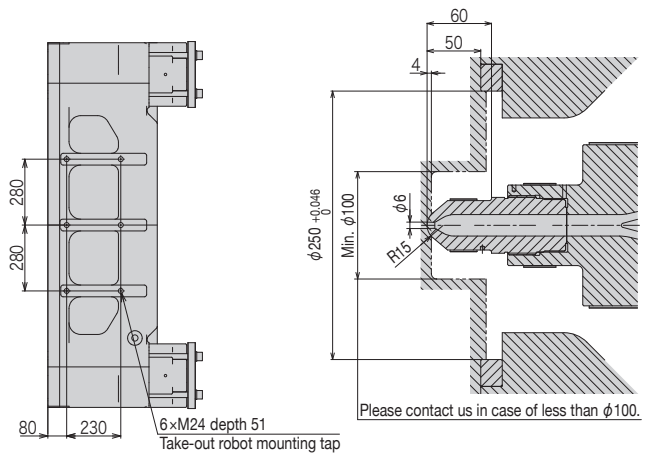
## Equipment Dimensions and Mold Related Dimensions



2300H/3100H

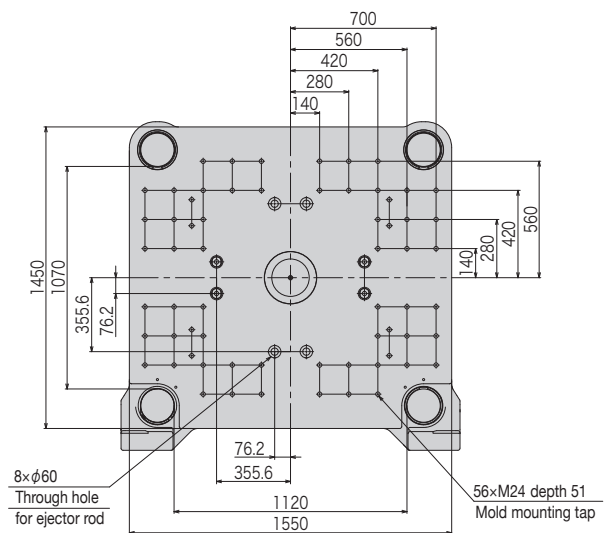
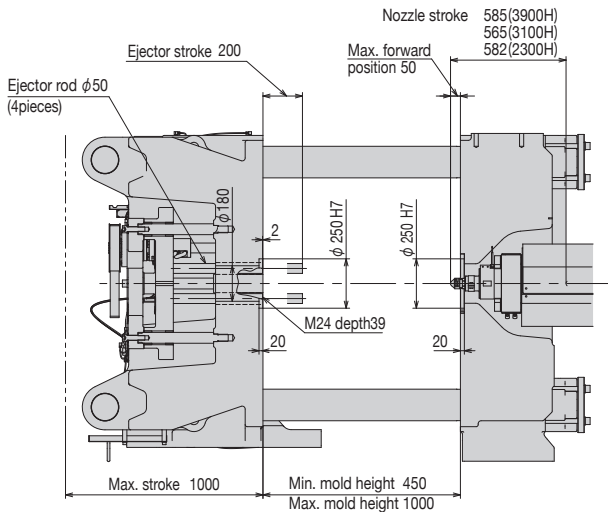


3900H



Top of stationary platen

Top of hopper frange



Movable platen

Performance Table

Unit	Item	Model	J850ADS									
			3100H			3900H			5200H			
Injection Unit	Screw diameter	mm	84	92	100	92	100	110	100	110	120	
	Screw stroke	mm	460			500			550			
	Theoretical injection capacity	cm <sup>3</sup>	2549	3058	3613	3324	3927	4752	4320	5227	6220	
	Injection capacity (GP-PS)	g	2320	2783	3288	3025	3574	4324	3931	4756	5661	
	Injection capacity (PP)	g	1861	2232	2637	2426	2867	3469	3153	3816	4541	
	Injection pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	192(1950)	185(1880)	156(1590)	190(1930)	185(1880)	153(1560)	188(1910)	180(1830)	151(1530)	
	Holding pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	173(1760)	167(1700)	140(1420)	171(1740)	167(1700)	138(1400)	169(1720)	162(1650)	136(1380)	
	Injection speed	mm/s	160			160			150			
	Injection rate	cm <sup>3</sup> /s	887	1064	1257	1064	1257	1521	1178	1425	1696	
	Plasticizing capacity (GP-PS)	kg/h	490	510	530	560	580	610	600	640	680	
	Plasticizing capacity (PP)	kg/h	340	350	370	390	400	420	420	440	470	
	Screw speed	min <sup>-1</sup>	205	185	170	185	170	155	170	155	145	
	Nozzle touch force	kN(tf)	70(7.1)			70(7.1)			70(7.1)			
	Nozzle stroke from platen	mm	50									
	Type of nozzle		Open nozzle									
	Barrel temperature control		Barrel 5, Nozzle 1									
	Heater wattage	kW	36.6			43.3			52.1			
	Clamping Unit	Mechanism		Double toggle								
		Clamping force	kN(tf)	8330(850)								
		Daylight opening (Max.)	mm	2300								
Opening stroke (Max.)		mm	1200									
Mold height		mm	500 ~ 1100									
Dry cycle (Euromap6)		s-mm	3.4 – 800									
Distance between Tie-bars (H×V)		mm	1120×1070									
Platen size (H×V)		mm	1600×1550									
Locating ring diameter		mm	150									
Ejector point			29 points									
Ejector force		kN(tf)	230(23.5)									
General	Machine Weight	t	47			48			50			
	Machine Dimensions (L×W×H)	m	10.36×2.83×2.55			10.81×2.83×2.55			11.03×2.83×2.55			

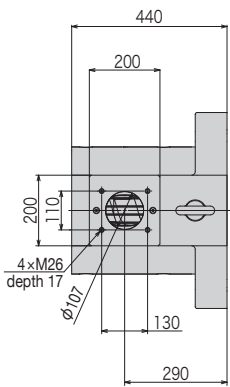
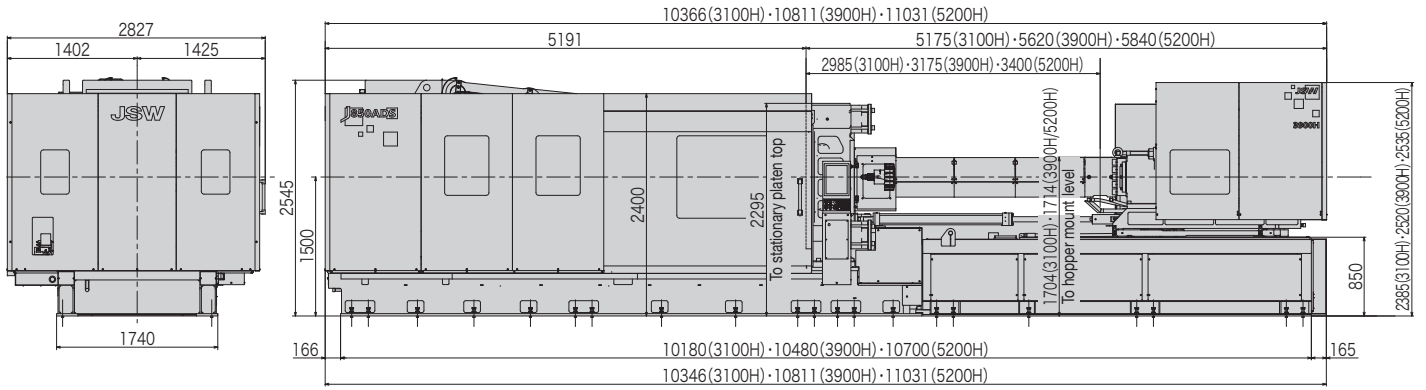
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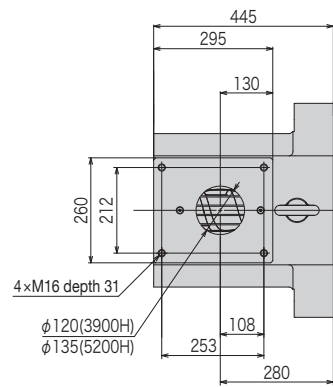
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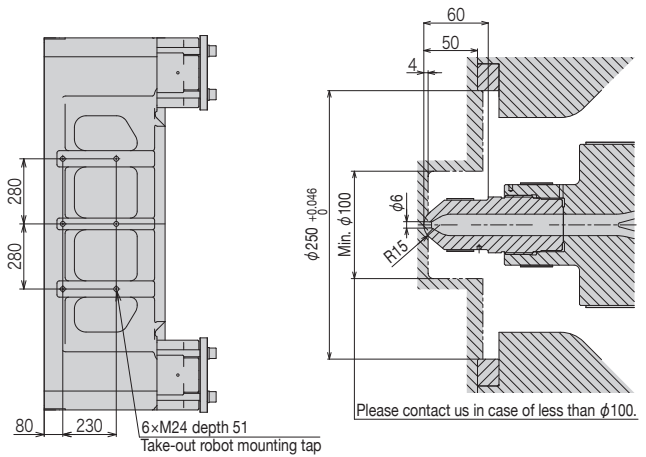
## Equipment Dimensions and Mold Related Dimensions



3100H

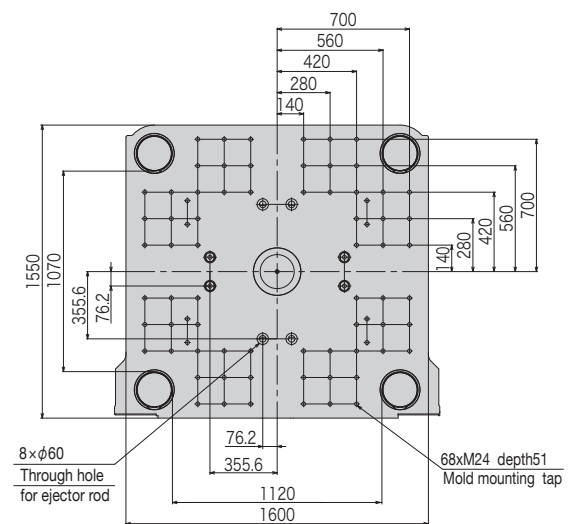
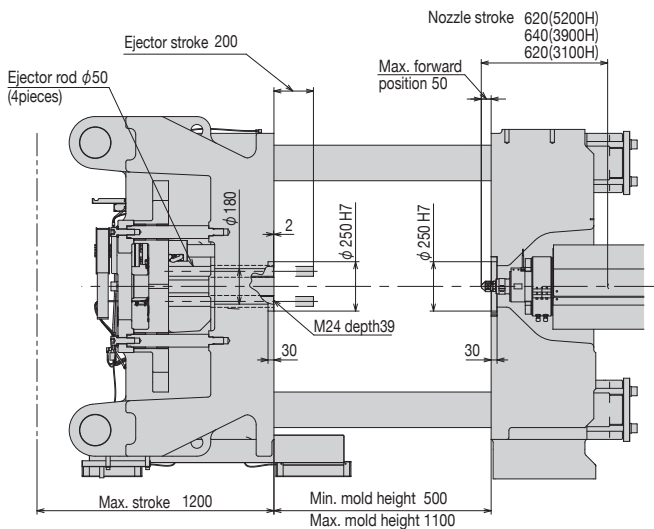


3900H/5200H



Top of stationary platen

Top of hopper frange



Movable platen

Performance Table

Unit	Item	Model	J850ADSW									
			3100H			3900H			5200H			
Injection Unit	Screw diameter	mm	84	92	100	92	100	110	100	110	120	
	Screw stroke	mm	460			500			550			
	Theoretical injection capacity	cm <sup>3</sup>	2549	3058	3613	3324	3927	4752	4320	5227	6220	
	Injection capacity (GP-PS)	g	2320	2783	3288	3025	3574	4324	3931	4756	5661	
	Injection capacity (PP)	g	1861	2232	2637	2426	2867	3469	3153	3816	4541	
	Injection pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	192(1950)	185(1880)	156(1590)	190(1930)	185(1880)	153(1560)	188(1910)	180(1830)	151(1530)	
	Holding pressure (Max.)	MPa(kgf/cm <sup>2</sup> )	173(1760)	167(1700)	140(1420)	171(1740)	167(1700)	138(1400)	169(1720)	162(1650)	136(1380)	
	Injection speed	mm/s	160			160			150			
	Injection rate	cm <sup>3</sup> /s	887	1064	1257	1064	1257	1521	1178	1425	1696	
	Plasticizing capacity (GP-PS)	kg/h	490	510	530	560	580	610	600	640	680	
	Plasticizing capacity (PP)	kg/h	340	350	370	390	400	420	420	440	470	
	Screw speed	min <sup>-1</sup>	205	185	170	185	170	155	170	155	145	
	Nozzle touch force	kN(tf)	70(7.1)			70(7.1)			70(7.1)			
	Nozzle stroke from platen	mm	50									
	Type of nozzle		Open nozzle									
	Barrel temperature control		Barrel 5, Nozzle 1									
	Heater wattage	kW	36.6			43.3			52.1			
	Clamping Unit	Mechanism		Double toggle								
		Clamping force	kN(tf)	8330(850)								
		Daylight opening (Max.)	mm	2300								
Opening stroke (Max.)		mm	1200									
Mold height		mm	500 ~ 1100									
Dry cycle (Euromap6)		s-mm	3.5-950									
Distance between Tie-bars (H×V)		mm	1370×1320									
Platen size (H×V)		mm	1850×1740									
Locating ring diameter		mm	150									
Ejector point			29 points									
Ejector force		kN(tf)	230(23.5)									
Ejector stroke		mm	200									
General	Machine Weight	t	52			53			55			
	Machine Dimensions (L×W×H)	m	10.36×3.10×2.67			10.81×3.10×2.67			11.03×3.10×2.67			

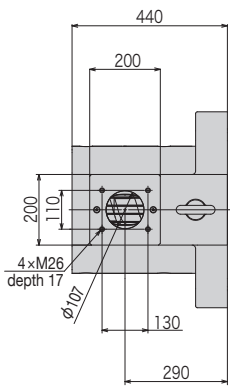
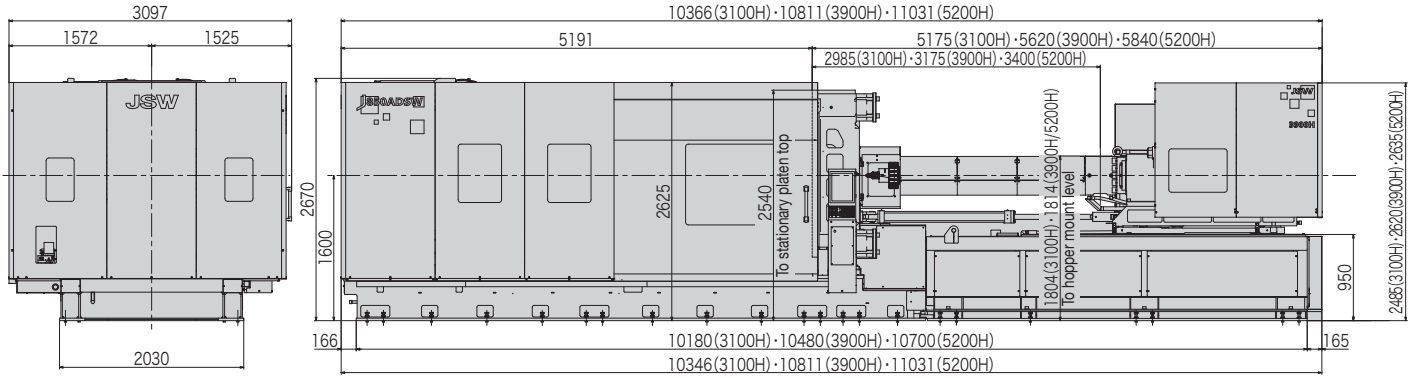
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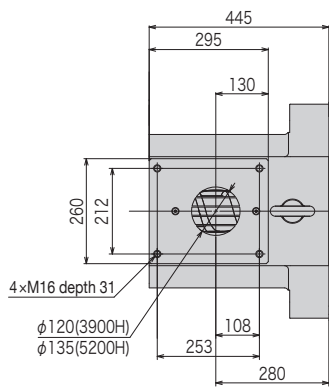
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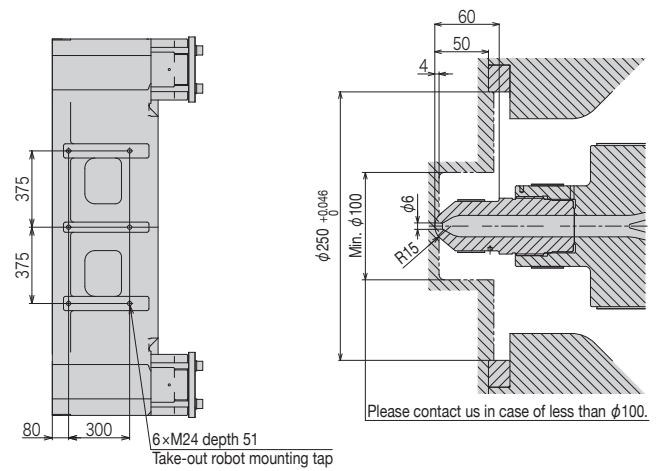
## Equipment Dimensions and Mold Related Dimensions



3100H

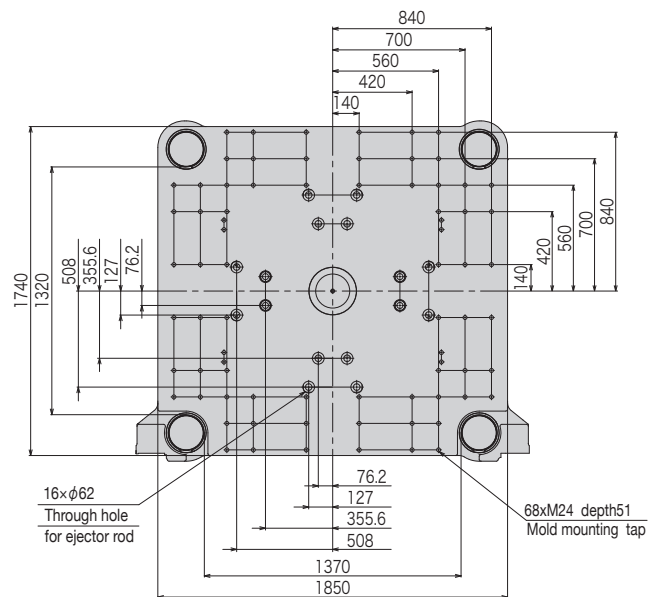
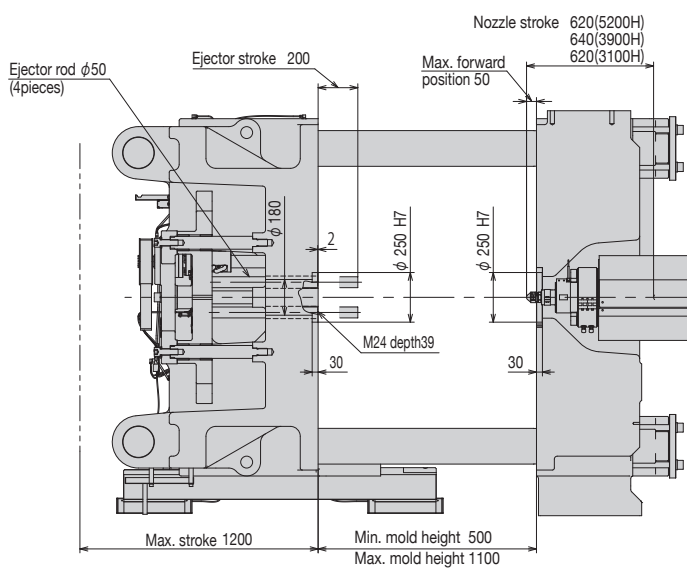


3900H/5200H



Top of stationary platen

Top of hopper frange



Movable platen

Standard Equipment List

Item			
Injection and Plasticizing Unit	Open nozzle	Note1	
	N2000F barrel		
	Chrome plated screw	Note2	
	Screw Pull-back		
	Purge cover (with limit switch)		
	Injection Unit Swiveling device (with limit switch)	Note3	
	Screw cold start prevention		
	Molding/Purging/Pause temperature select		
	Auto purging circuit		
	Nozzle retract select		
	Injection/Metering programmed control	Injection/Holding pressure:1~6steps(Variable) Metering/Back pressure:1~3steps(Variable)	
	Holding pressure transfer select		
	Holding pressure control select		
	Pull-back select		
	Barrel temperature control (PID/SSR)		
	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		
	Auto grease lubrication		
	Clamping Unit	High performance platen support	
		Low vibration mold open/close	
		Wide platen	
		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 function			
Ejector servo motor with brake			
Mold open/close servo motor with brake			
Auto mold thickness adjusting device			
Auto clamp force setting			
Clamp force display			
Clamping force feedback control			
Ejector plate return confirmation circuit			
Electrical clamping unit safety device			
Robot mounting holes			
Compound action		Screw rotation during mold open/close Eject during mold open Injection during clamp up	
Safety mat (Under mold area) J850ADSW and above		Note4	
Grease free toggle bushing			
Auto grease lubrication			

Item			
Controller	Touch panel 15" TFT color LCD controller		
	300 mold condition storage (Internal memory)	Note5	
	Soft Start molding		
	Self diagnostics function		
	I/O customize function		
	Molding operation assist [J-Assist]		
	Help function		
	Pop up display		
	Manual browsing function		
	Start up safety notice		
	Molding condition memo		
	Clock function		
	Multi language select (English,Chinese,Japanese)		
	USB port ×2	Note6	
	Overall setting screen		
	Preheat timer		
	Product takeout robot circuit		
	Attended/Unattended operation select		
	Emergency stop button		
	Safety key		
	Monitor	Actual value display	
		Mold temperature display	Note7
		Injection/Metering waveform monitor	
		Oscilloscope waveform monitor	
		Energy consumption and regeneration monitor	
		Injection/Metering waveform storage	
		barrel temperature monitor	
		Injection pressure monitor (IPM)	
		Statistical graph	
		Production monitor	
		Cumulative operating hour display	
		Cycle monitor	
		Molding condition upper/lower limit monitor	Note8
		Inspection and maintenance guide [J-Support]	Note9
Heater system alarm			
Injection pressure overshoot Alarm			
Grease lubrication Alarm			
Servo fault alarm			
Unreleased clamp alarm			
Position calibration request			
Fault alarm buzz			
Alarm history			
Set value history			
Others	Safety compliance (ISO20430,ISO60204-1)		
	Cooling water closed circuit for feed throat		
	Accessories (maintenance tools and Ejector Rods,etc.)		

Note1. 1400H and below are chip types.

Note2. 2300H and above are M3-CL screws.

1400H and below are GP-21 screws.

Note3. 1400H and below are manual.

Note4. J850ADSW and above are standard equipment. (models with tie-bar spacing larger than 1200mm)

J550ADS to J850ADS are optional. (Tie-bar interval smaller than 1200mm)

The safety mat on the top of the steps is optional.

Note5. Commercial USB flash drives can also store molding conditions.

Note6. You can save the controller screen in PNG format and measured values in CSV format.

Note7. Temperature sensor and wiring not included.

Note8. You can select up to 18 display items and alarms from the list below.

(1) Cycle Time (2) Injection Time (3) Metering Time (4) Maximum Injection Pressure (5) Cushion Position

(6) Holding pressure end position (7) Holding pressure transfer pressure (8) Back pressure (9) Metering end position

(10) Injection Start Position (11) Holding Pressure Transfer Position (12) Metering Torque (13) Holding Pressure Transfer Speed

(14) Mold close time (15) Mold open time (16) Clamp force (17) Shift amount (HAVC) (18) End Speed (HAVC)

Note9. Notifies you of component inspection times based on molding conditions.

## Options List

Item		
Injection Unit	Long nozzle	
	Shut off nozzle (Pneumatic type and hydraulic type)	
	Mixing nozzle	
	KC nozzle (Support up to 3100H $\Phi$ 92)	
	LSP-2 screw (Abrasion resistant type)	
	Special design screw	M2K screw for optical application HP screw for high dispersion
	Wide selection of screws & barrels	Note1
	Barrel insulation cover	
	Barrel blower cooling unit (with insulation or no insulation)	
	Hopper	
	Hopper slide device	
	High speed injection spec.(Up to 3900H)	
	Extended holding pressure time spec.	Note2
	Long time plasticizing spec.	Note3
	Electric motor driven injection unit advance/retract	
Purge shutter		
Clamping Unit	Daylight extension	
	Mold platen heat insulation board (5 or 10 mm)	Note4
	Locating ring	
	Air jet	
	Core pull devices (Pneumatic type and hydraulic type)	Note5
	Valve gate devices (Pneumatic type and hydraulic type)	Note5
	Coupler joint (hydraulic, Pneumatic)	
	Hydraulic power pack	
	Ejector gate cutting circuit	
	Ejector (One touch type)	
	Unscrewing motor circuit	
	Auto safety gate open (Operation side)	
	Auto safety gate open/close (Operation side/Non Operation side/Both sides)	
	Safety mat (Under mold area) J550ADS to J850ADS	Note6
	Safety mat (Top of the steps)	
	Safety footplate	
	T slot platen	
	Mold clamber device (Pneumatic, hydraulic, magnet type)	Note4
	Easy mold clamber	
	Toggle type injection compression function Compression:1-6 steps(Variable)	
	Forming mold control	
	Mechanical clamping unit safety device	

Item		
Electrical Instrumentation and Control	Multi language select (1 language additional)	Note7
	J-WiSe <sup>®</sup> solution	Note1
	Mold temp display (with mold temp upper/lower limit alarm)	
	Mold temp control device (with mold temp upper/lower limit alarm)	
	Hot runner control circuit	
	Receptacle	Note8
	Multiple injection	
	Flow mold	
	Spear output signal circuit	
	Motion/no-motion select	
Others	Hopper stage	
	Mold cooling water closed circuit (platen/bed)	
	Cooling water failure warning	
	Air pressure alarm	
	Leveling pad for installation	
	Movement prevent anchor bolts	
	Rotary warning light	
	Export specification	Note9
	Designated color	Note10

Note1. Please contact us for detailed specifications.

Note2. High pressure holding capacity for a long time.  
Injection speed may be slow.

Note3. Can be plasticized with high torque.  
Plasticizing capacity may be reduced.

Note4. When an insulated plate or magnetic clamber is mounted, the nozzle plunge amount must take these thicknesses into account.  
Specification values for mold thicknesses have also been changed.

Note5. The hydraulic system requires an increase in the capacity of the hydraulic unit.

Note6. J850ADSW and above are standard equipment.  
(models with tie-bar spacing larger than 1200mm)  
J550ADS to J850ADS are optional. (Tie-bar interval smaller than 1200mm)

Note7. Japanese, English and Chinese are standard equipment.

Note8. Please specify the power supply voltage and the number of outlets required for ancillary equipment.

Note9. Export specifications must be discussed depending on the destination.

Note10. Designate colors, referring to color samples or Munsell Color Codes.

## Utilities

### ■ Total power capacity

Machine model	Total power capacity (kVA)	
J550ADS	1400H	50.7
	2300H	56.0
	3100H	65.2
J650ADS	2300H	57.7
	3100H	66.8
	3900H	83.9
J850ADS J850ADSW	3100H	67.0
	3900H	84.1
	5200H	89.6

Note1. 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 25kA at AC400V/460V.

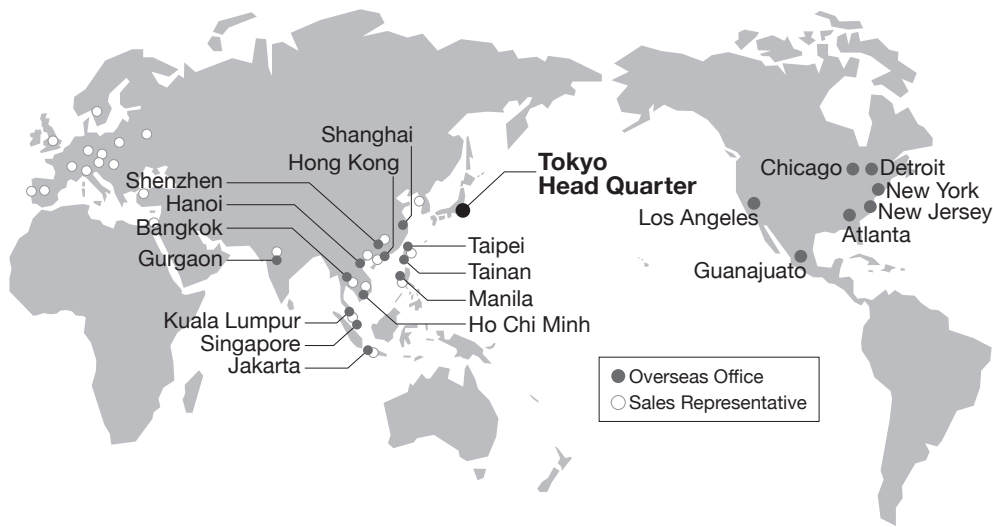
### ■ Cooling water capacity for barrel temperature control

Injection unit	Cooling water capacity for barrel temperature control (m <sup>3</sup> /h)
1400H	0.6
2300H	1.2
3100H	
3900H	1.6
5200H	

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

### ■ Hydraulic oil capacity

Machine model	Hydraulic oil capacity (L)
J550ADS	30
J650ADS	
J850ADS	
J850ADSW	



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