

## Performance Table

## Equipment Dimensions and Mold Related Dimensions

Unit : inch

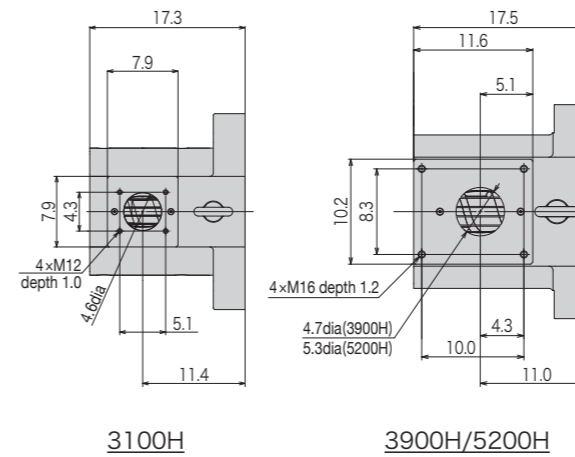
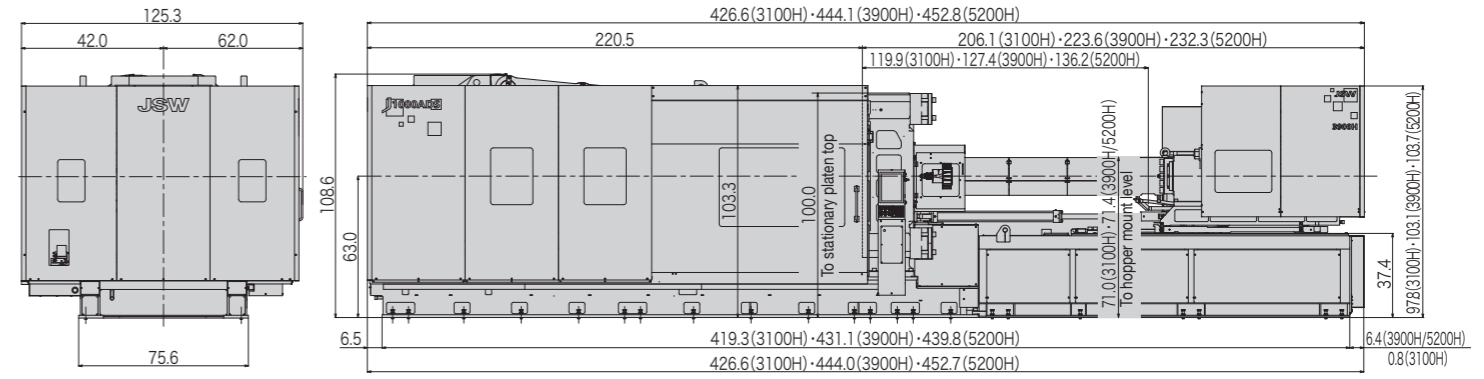
Unit	Item	Model	J1000ADS								
			3100H			3900H			5200H		
Injection Unit	Screw diameter	in	3.31	3.62	3.94	3.62	3.94	4.33	3.94	4.33	4.72
	Screw stroke	in	18.110			19.685			21.654		
	Theoretical injection capacity	in <sup>3</sup>	155.6	186.6	220.5	202.8	239.6	290.0	263.6	319.0	379.6
	Injection capacity (GP-PS)	oz	81.8	98.2	116.0	106.7	126.1	152.5	138.7	167.8	199.7
	Injection capacity (PP)	oz	65.6	78.7	93.0	85.6	101.1	122.4	111.2	134.6	160.2
	Injection pressure (Max.)	psi	27800	26800	22600	27500	26800	22100	27200	26100	21900
	Holding pressure (Max.)	psi	25000	24200	20300	24800	24200	20000	24500	23400	19700
	Injection speed	in/s	6.30			6.30			5.91		
	Injection rate	in <sup>3</sup> /s	54.1	64.9	76.7	64.9	76.7	92.8	71.9	87.0	103.5
	Plasticizing capacity (GP-PS)	oz/s	4.80	5.00	5.10	5.68	5.98	6.47	6.47	6.86	7.05
	Plasticizing capacity (PP)	oz/s	3.33	3.53	3.63	4.02	4.21	4.41	4.61	4.90	5.10
	Screw speed	rpm	205	185	170	185	170	155	170	155	145
	Nozzle touch force	Uston	7.9			7.9			7.9		
	Nozzle stroke from platen	in	2.0								
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	Uston	1102.3								
	Daylight opening (Max.)	in	98.4								
	Opening stroke (Max.)	in	51.2								
	Mold height	in	19.7 ~ 47.2								
	Dry cycle (Euromap6)	s-in	3.9-37.4								
	Distance between Tie-bars (HxV)	in	53.9x52.0								
	Platen size (HxV)	in	74.4x70.1								
	Locating ring diameter	in	5.0								
	Ejector point		25 points								
Ejector force	Uston	25.9									
Ejector stroke	in	7.87									
General	Machine Weight	Uston	66.1			67.2			69.4		
	Machine Dimensions (LxWxH)	ft	35.56x10.43x9.06			37.01x10.43x9.06			37.73x10.43x9.06		

### Remarks

- Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
- The theoretical injection capacity is (cross sectional area of barrel) x (stroke of screw).
- 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.

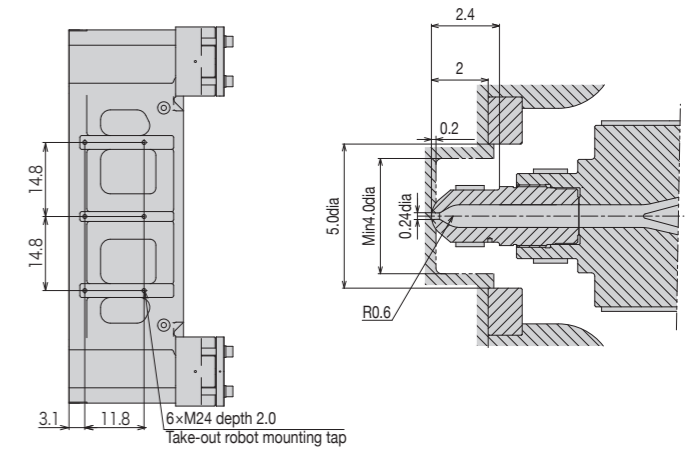
### Note

- Due to continual improvements, specifications are subject to change without notice.
- Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
- Performance specifications are based on theoretical data.

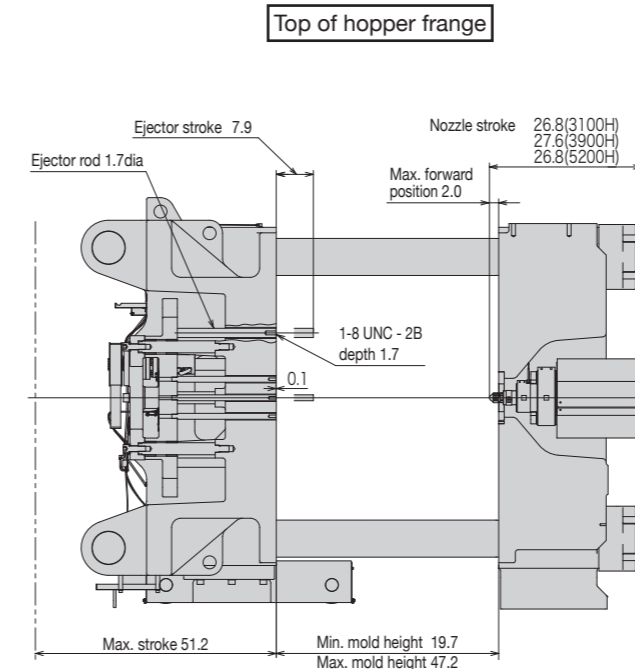


3100H

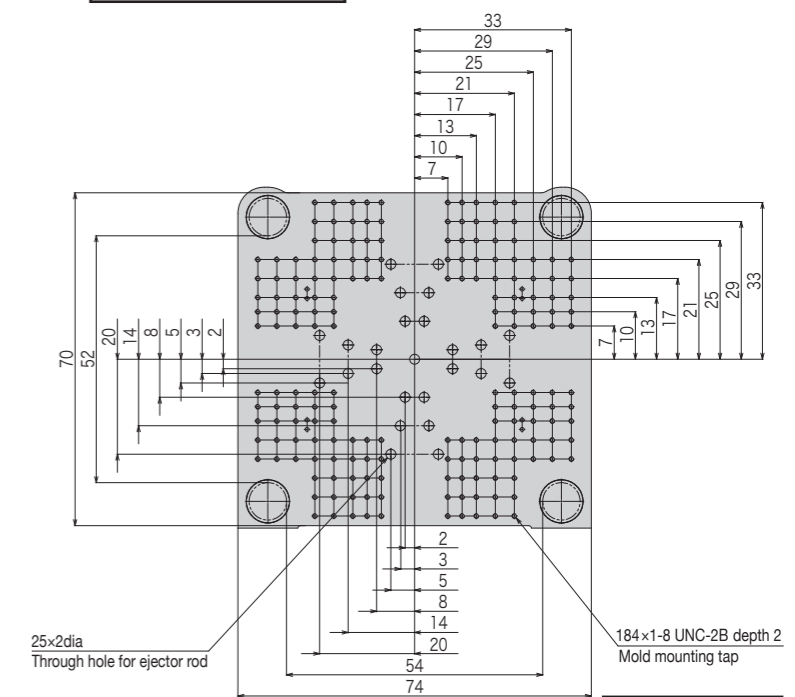
3900H/5200H



Top of stationary platen



Top of hopper frange



Movable platen

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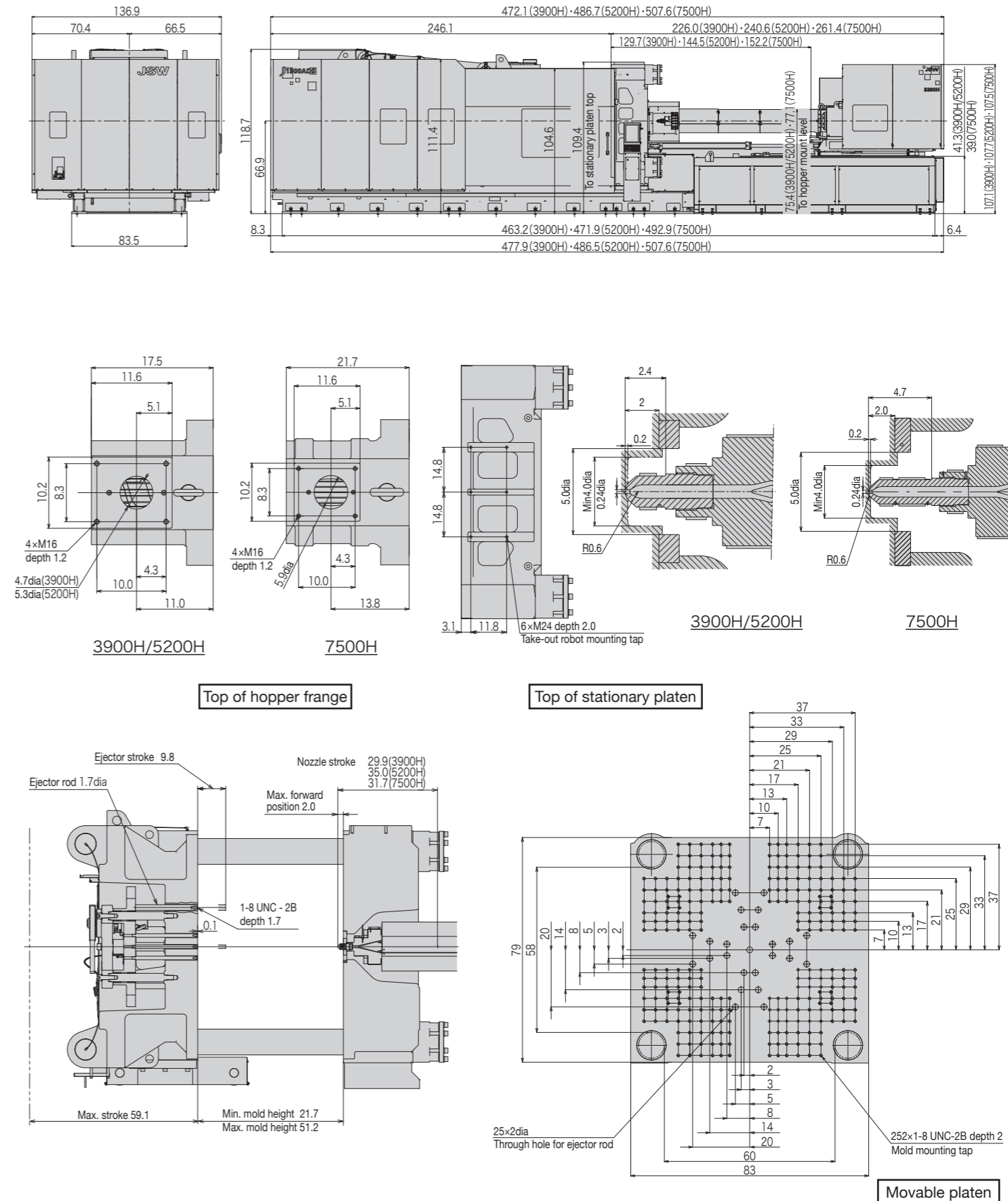
Unit	Item	Model	J1300ADS								
			3900H			5200H			7500H		
Injection Unit	Screw diameter	in	3.62	3.94	4.33	3.94	4.33	4.72	4.33	4.72	5.12
	Screw stroke	in	19.685			21.654			25.984		
	Theoretical injection capacity	in <sup>3</sup>	202.8	239.6	290.0	263.6	319.0	379.6	382.8	455.5	534.6
	Injection capacity (GP-PS)	oz	106.7	126.1	152.5	138.7	167.8	199.7	201.3	239.6	281.2
	Injection capacity (PP)	oz	85.6	101.1	122.4	111.2	134.6	160.2	161.5	192.2	225.6
	Injection pressure (Max.)	psi	27500	26800	22100	27200	26100	21900	26900	26100	22100
	Holding pressure (Max.)	psi	24800	24200	20000	24500	23400	19700	24200	23400	20000
	Injection speed	in/s	6.30			5.91			5.12		
	Injection rate	in <sup>3</sup> /s	64.9	76.7	92.8	71.9	87.0	103.5	75.4	89.7	105.3
	Plasticizing capacity (GP-PS)	oz/s	5.68	5.98	6.47	6.47	6.86	7.05	6.76	7.74	7.74
	Plasticizing capacity (PP)	oz/s	4.02	4.21	4.41	4.61	4.90	5.10	4.90	5.59	5.59
	Screw speed	rpm	185	170	155	170	155	145	145	145	135
	Nozzle touch force	Uston	7.9			7.9			7.9		
	Nozzle stroke from platen	in	2.0								
Type of nozzle		Open nozzle									
Barrel temperature control		Barrel 5, Nozzle 1						Barrel 5, Nozzle 2			
Heater wattage	kW	43.3			52.1			66.3			
Clamping Unit	Mechanism		Double toggle								
	Clamping force	Uston	1433.0								
	Daylight opening (Max.)	in	110.2								
	Opening stroke (Max.)	in	59.1								
	Mold height	in	21.7 ~ 51.2								
	Dry cycle (Euromap6)	s-in	4.4 - 41.3								
	Distance between Tie-bars (HxV)	in	59.8 x 57.9								
	Platen size (HxV)	in	83.5 x 78.7								
	Locating ring diameter	in	5.0								
	Ejector point		25 points								
General	Ejector force	Uston	33.7								
	Ejector stroke	in	9.84								
	Machine Weight	Uston	91.5			92.6			97.0		
	Machine Dimensions (LxWxH)	ft	39.34 x 11.42 x 9.88			40.55 x 11.42 x 9.88			42.29 x 11.42 x 9.88		

### 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) x (stroke of screw).
3. The injection capacity is variable according to the grade of resin, molding conditions and mold.
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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.

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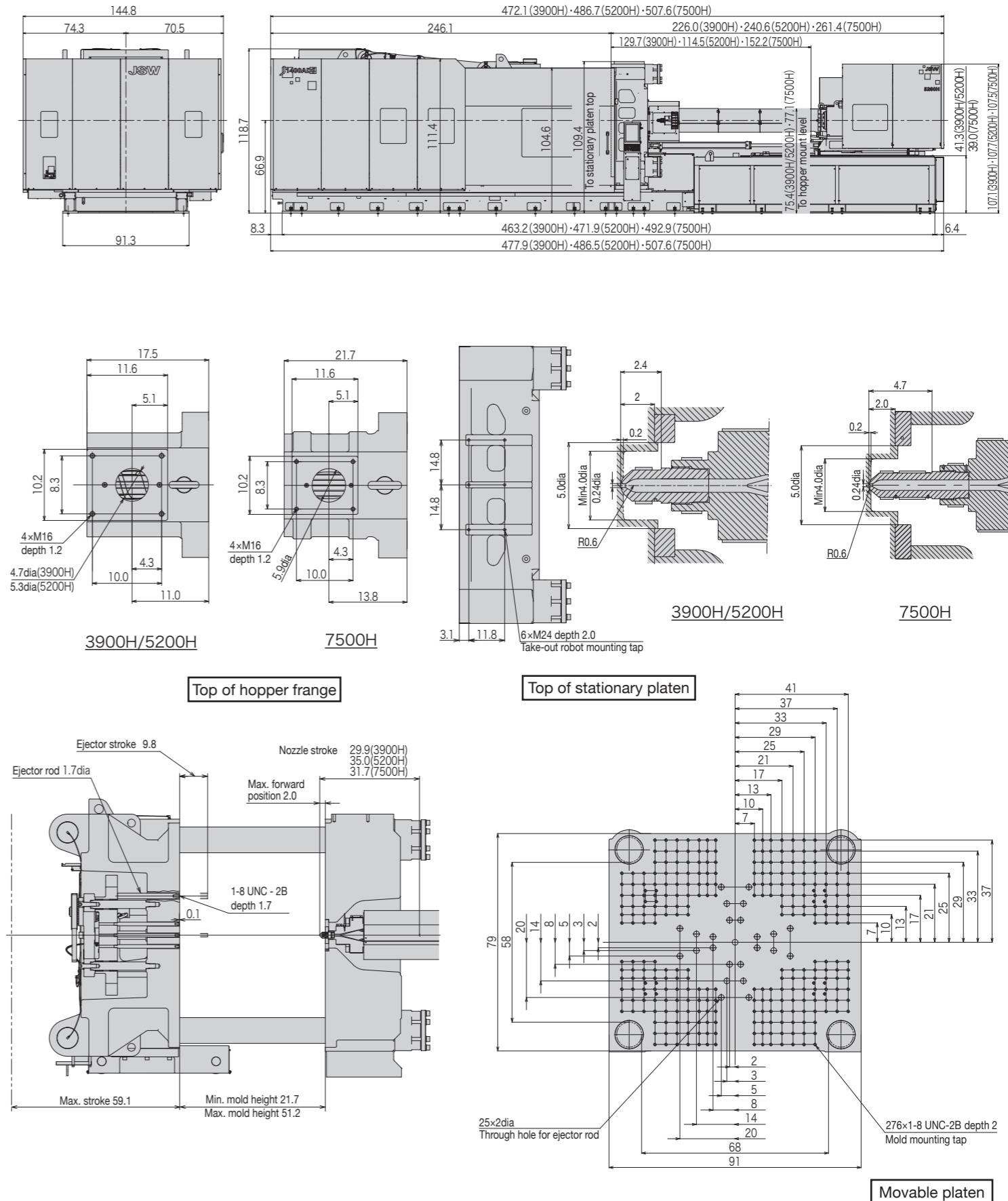
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			3900H			5200H			7500H		
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Nozzle touch force	Uston	7.9			7.9			7.9			
Nozzle stroke from platen	in	2.0									
Type of nozzle		Open nozzle									
Barrel temperature control		Barrel 5, Nozzle 1						Barrel 5, Nozzle 2			
Heater wattage	kW	43.3			52.1			66.3			
Mechanism		Double toggle									
Clamping force	Uston	1543.2									
Daylight opening (Max.)	in	110.2									
Opening stroke (Max.)	in	59.1									
Mold height	in	21.7 ~ 51.2									
Dry cycle (Euromap6)	s-in	4.9-47.2									
Distance between Tie-bars (H×V)	in	67.7×57.9									
Platen size (H×V)	in	91.3×78.7									
Locating ring diameter	in	5.0									
Ejector point		25 points									
Ejector force	Uston	33.7									
Ejector stroke	in	9.84									
Machine Weight	Uston	97.0			99.2			103.6			
Machine Dimensions (L×W×H)	ft	39.34×12.07×9.88			40.55×12.07×9.88			42.29×12.07×9.88			

### Remarks

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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			

- 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 47.244inche)  
 J550ADS to J850ADS are optional. (Tie-bar interval smaller than 47.244inche)  
 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.

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 x2	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.)		

Options List

Item			
Injection Unit	Long nozzle		
	Shut off nozzle (Pneumatic type and hydraulic type)		
	Mixing nozzle		
	KC nozzle (Support up to 3100H 3.62dia)		
	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® 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 47.244inche)  
 J550ADS to J850ADS are optional. (Tie-bar interval smaller than 47.244inche)  
 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	51
	2300H	56
	3100H	65
J650ADS	2300H	58
	3100H	67
J850ADS J850ADSW	3900H	84
	5200H	90
	3100H	67
J1000ADS	3900H	85
	5200H	90
	3100H	68
J1300ADS	3900H	85
	5200H	90
	7500H	102
J1400ADS	3900H	85
	5200H	90
	7500H	102

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 (ft <sup>3</sup> /h)
1400H	21.19
2300H	42.38
3100H	
3900H	56.5
5200H	
7500H	

■ Hydraulic oil capacity

Machine model	Hydraulic oil capacity (USgal)
J550ADS	7.9
J650ADS	
J850ADS	
J850ADSW	
J1000ADS	
J1300ADS	
J1400ADS	

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