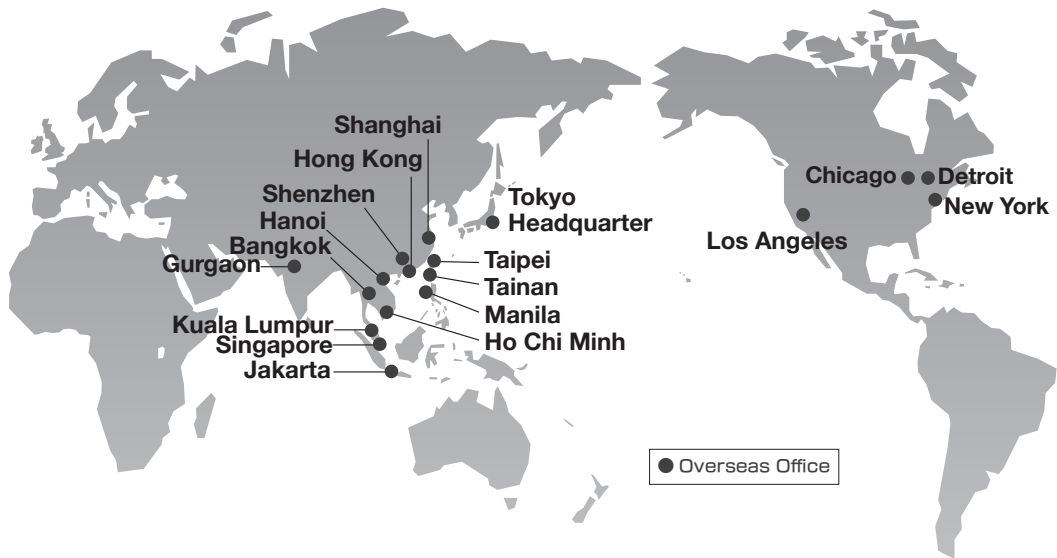




JSW THE JAPAN STEEL WORKS, LTD.

URL <http://www.jsw.co.jp/>

Division Gate City Ohsaki-West Tower, 11-1, Osaki 1-chome, Shinagawa-ku,
Head Quarter: Tokyo 141-0032, Japan
Phone: +81-3-5745-2081
URL http://www.jsw.co.jp/inj_f/inj_index.htm

Japan Steel Works America, Inc.

Head Office: 379 Thornall Street, 5th Floor, Edison, New Jersey 08837, U.S.A.
Phone: +1-212-490-2630
Los Angeles Office: 555 South Promenade Ave., Unit 104, Corona, California 92879, U.S.A.
Phone: +1-951-898-0934
Chicago Office: 540 Capital Drive, Suite 130, Lake Zurich, Illinois 60047, U.S.A.
Phone: +1-847-550-0704
Detroit Office: 24387 Halsted Road Unit B, Farmington Hills, Michigan 48335, U.S.A.
Phone: +1-248-536-0288

The Japan Steel Works (Singapore) Pte. Ltd.

17 Gul Lane 629413 Singapore
Phone: +65-6861-4511

PT. JSW Plastics Machinery Indonesia

Gajah Building Unit K, Jl.Dr.Saharjo No.111 Tebet, Jakarta
Selatan 12810 Indonesia
Phone: +62-21-8370-2536

JSW Plastics Machinery (Philippines) Inc.

Unit 2205, 22nd Floor, Asian Star Building, Asean Drive,
Filinvest Corporate City, Alabang, Muntinlupa City, 1781 Philippines
Phone: +63-2-478-2533

JSW Plastics Machinery (M) SDN. BHD.

D11-11-G, Pusat Perdagangan Dana 1, Jalan PJU 1A/46, 47301, Petaling
Jaya, Selangor, Malaysia
Phone: +60-3-7842-6076

The Japan Steel Works (Thailand) Co., Ltd.

78/6 JST Building 4th Floor, Moo 7 King Kaew Road, Rachatewa,
Bangplee, Samutprakarn 10540 Thailand
Phone: +66-2-738-5272

JSW Plastics Machinery Vietnam Ltd.

Hanoi Head Office: Room103, Techno-Center, Thang Long Industrial Park, Kim Chung Commune,
Dong Anh District, Hanoi, Vietnam
Phone: +84-24-3951-6383
Ho Chi Minh Office: Ground Floor, DC Tower, 111D Ly Chinh Thang, Ward 7, District 3,
HCC, Vietnam
Phone: +84-28-3526-1295

JSW Plastics Machinery (H.K.) Co., Ltd.

Room 907, Corporation Park, 11 On Lai Street, Shatin N.T., Hong Kong
Phone: +852-2648-0720

JSW Injection Machine Maintenance
(Shenzhen) Co., Ltd.

1F, YiBen Electronic & Business Industrial Park, No.1063 Chaguang
Road, Xili Town, Nanshan District, Shenzhen City, Guangdong Province,
518055, People's Republic of China
Phone: +86-755-8602-0930

JSW Machinery Trading (Shanghai) Co., Ltd.

28A, Strength Plaza, No.600-4, Tianshan Road, Shanghai, 200051,
People's Republic of China
Phone: +86-21-5206-7031

JSW Plastics Machinery (TAIWAN) Corp.

Head Office: 1F., No.21, Dahu 1st Road, Gueishan Dist., Taoyuan City, 33373
Taiwan, R.O.C.
Phone: +886-3-396-2102
Tainan Office: 15F.,-7, No.689-78, Xiaodong Road, Yongkang Dist., Tainan City,
71052 Taiwan, R.O.C.
Phone: +886-6-311-4192

Japan Steel Works India Private Limited

611, Time Tower, MG Road, Sector 28,
Gurgaon, Haryana, 122001, India
Phone: +91-124-469-4444

JADS™
SERIES
Electric Servo Drive Injection Molding Machine



Model

J30ADS | J50ADS | J80ADS | J100ADS | J130ADS | J180ADS

Specifications

Made in HIROSHIMA

JSW



JQA-QMA13993
JQA-EM6416 (Hiroshima Plant)

Performance Table

Unit	Model		J30ADS					
	Item		15U			30U		
Injection Unit	Screw Diameter mm		16	18	20	20	22	25
	Screw Stroke mm		60			80		
	Theoretical Injection Capacity cm³		12	15	18	25	30	39
	Injection Capacity (GP-PS) g		11	14	17	23	28	38
	Standard	Injection Pressure (Max.) MPa[kgf/cm²]	276 {2810}	218 {2220}	177 {1800}	270 {2750}	223 {2270}	172 {1750}
		Holding Pressure (Max.) MPa[kgf/cm²]	251 {2560}	198 {2010}	161 {1640}	245 {2490}	203 {2070}	157 {1600}
		Injection Speed mm/s	350			350		
		Injection Rate cm³/s	70	89	110	110	133	172
		Plasticizing Capacity (GP-PS) kg/h	10	14	17	17	21	28
		Screw Speed min⁻¹	500			500		
	High Speed (Option)	Injection Pressure (Max.) MPa[kgf/cm²]	276 {2810}	218 {2220}	177 {1800}	270 {2750}	223 {2270}	172 {1750}
		Holding Pressure (Max.) MPa[kgf/cm²]	251 {2560}	198 {2010}	161 {1640}	245 {2490}	203 {2070}	157 {1600}
		Injection Speed mm/s	500			500		
		Injection Rate cm³/s	101	127	157	157	190	245
		Plasticizing Capacity (GP-PS) kg/h	10	14	17	17	21	28
		Screw Speed min⁻¹	500			500		
	Ext. Holding Pressure (Option)	Injection Pressure (Max.) MPa[kgf/cm²]	276 {2810}	218 {2220}	177 {1800}	270 {2750}	223 {2270}	172 {1750}
		Holding Pressure (Max.) MPa[kgf/cm²]	251 {2560}	198 {2010}	161 {1640}	245 {2490}	203 {2070}	157 {1600}
		Injection Speed mm/s	250			250		
		Injection Rate cm³/s	50	64	79	79	95	123
		Plasticizing Capacity (GP-PS) kg/h	10	14	17	17	21	28
		Screw Speed min⁻¹	500			500		
Nozzle Touch Force kN [tf]		19.6 {2.0} Center Touch						
Nozzle Stroke from Platen mm		50						
Type of Nozzle		Open Nozzle						
Barrel Temperature Control		Barrel 3, Nozzle 2						
Heater Wattage kW		3.1			3.9			
Clamping Unit	Mechanism		Double Toggle					
	Clamping Force kN [tf]		300 {30.6}					
	Daylight Opening (Max.) mm		660					
	Opening Stroke (Max.) mm		230					
	Mold Height mm		120~430					
	Distance Between Tie-bars (H×V) mm		310×310					
	Platen Size (H×V) mm		440×440					
	Locating Ring Diameter mm		60					
	Ejector Point		3 points					
	Ejector Force kN [tf]		9.9 {1.0}					
	Ejector Stroke mm		50					
	General	Machine Weight t		2.3				
Machine Dimensions (L×W×H) m		3.52×1.10×1.59			3.52×1.10×1.59			

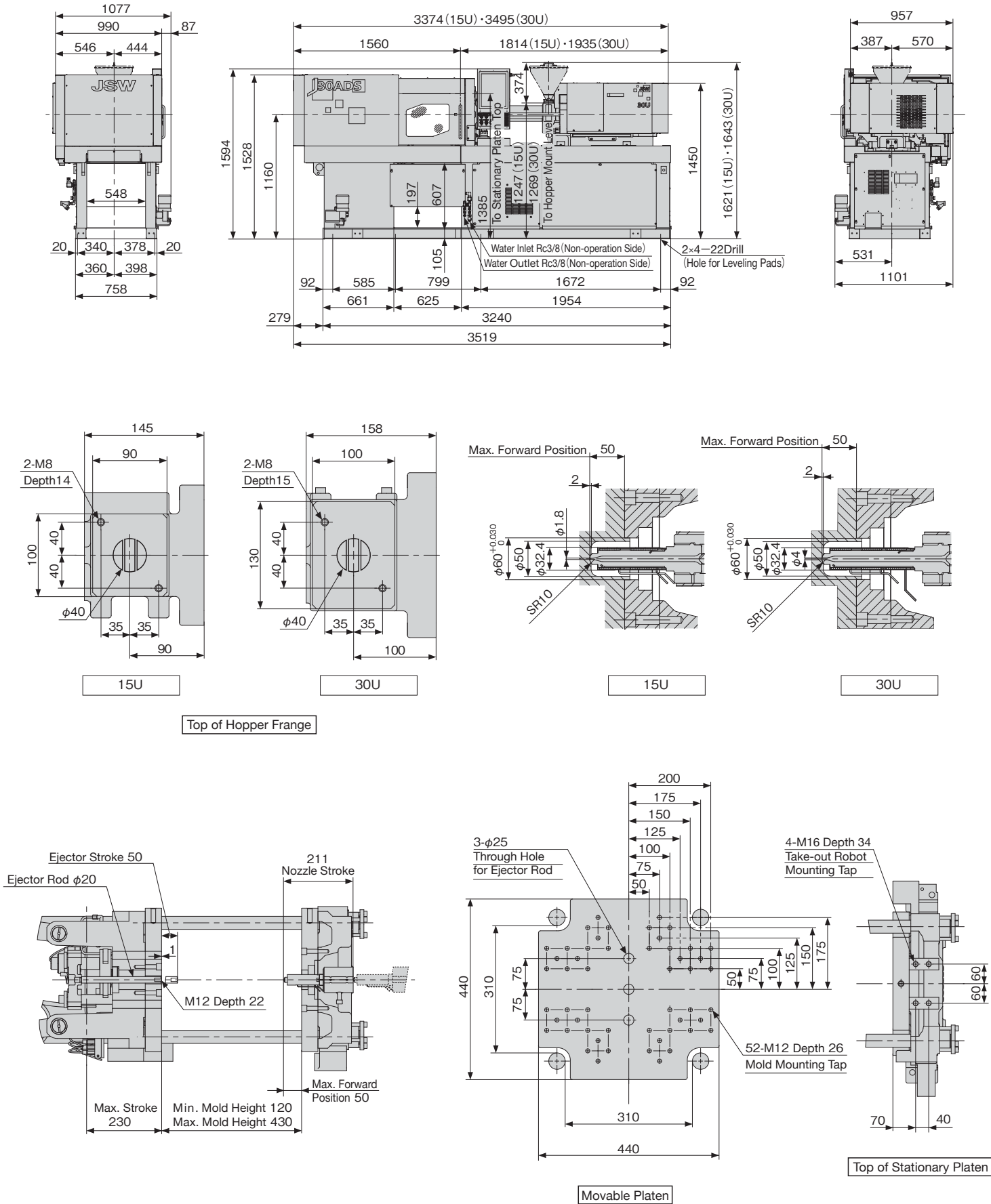
Remarks:

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- 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.High speed injection and Ext. holding pressure injection are optional.
- 5.1MPa=10.2 kgf/cm², 1kN=0.102tf

Equipment Dimensions and Mold Related Dimensions



Equipment Dimensions and Mold Related Dimensions

[illegible]

Note:

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Please contact us if you require more specific data.
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5. $1\text{MPa}=10.2\text{ kgf/cm}^2$, $1\text{kN}=0.102\text{tf}$

Equipment Dimensions and Mold Related Dimensions

[illegible]**JSW**

Performance Table

Unit	Model		J100ADS												
			60U			110U					180U				
Injection Unit	Screw Diameter		mm	25	28	32	25	28	32	35	40	35	40	45	
	Screw Stroke		mm	100			100			120			140		
	Theoretical Injection Capacity		cm³	49	62	80	49	62	97	115	151	135	176	223	
	Injection Capacity (GP-PS)		g	45	56	73	45	56	88	105	137	123	160	203	
	Standard	Injection Pressure (Max.)		MPa {kgf/cm²}	270 {2750}	215 {2190}	165 {1680}	320 {3260}	300 {3060}	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}
		Holding Pressure (Max.)		MPa {kgf/cm²}	245 {2490}	195 {1980}	150 {1530}	290 {2960}	275 {2800}	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}
		Injection Speed		mm/s	350			350					350		
		Injection Rate		cm³/s	172	216	281	172	216	281	337	440	337	440	557
		Plasticizing Capacity (GP-PS)		kg/h	34	46	74	34	46	74	92	123	92	127	166
		Screw Speed		min ⁻¹	400			400					400		
	High Speed (Option)	Injection Pressure (Max.)		MPa {kgf/cm²}	270 {2750}	215 {2190}	165 {1680}	320 {3260}	300 {3060}	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}
		Holding Pressure (Max.)		MPa {kgf/cm²}	245 {2490}	195 {1980}	150 {1530}	290 {2960}	275 {2800}	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}
		Injection Speed		mm/s	500			500					500		
		Injection Rate		cm³/s	245	308	402	245	308	402	481	628	481	628	795
		Plasticizing Capacity (GP-PS)		kg/h	34	46	74	34	46	74	92	123	92	127	166
		Screw Speed		min ⁻¹	400			400					400		
	Ext. Holding Pressure (Option)	Injection Pressure (Max.)		MPa {kgf/cm²}	270 {2750}	215 {2190}	165 {1680}	320 {3260}	300 {3060}	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}
		Holding Pressure (Max.)		MPa {kgf/cm²}	245 {2490}	195 {1980}	150 {1530}	290 {2960}	275 {2800}	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}
		Injection Speed		mm/s	250			250					200		
		Injection Rate		cm³/s	123	154	201	123	154	201	241	314	192	251	318
		Plasticizing Capacity (GP-PS)		kg/h	34	46	74	34	46	74	92	123	92	127	166
		Screw Speed		min ⁻¹	400			400					400		
Nozzle Touch Force		kN {tf}	19.6 {2.0} Center Touch			24.5 {2.5} Center Touch									
Nozzle Stroke from Platen		mm	50												
Type of Nozzle			Open Nozzle												
Barrel Temperature Control			Barrel 4, Nozzle 2												
Heater Wattage		kW	5.5			6.7			9.2			10.2			
Clamping Unit	Mechanism			Double Toggle											
	Clamping Force		kN {tf}	1000 {102}											
	Daylight Opening (Max.)		mm	910											
	Opening Stroke (Max.)		mm	360											
	Mold Height		mm	150~550											
	Distance Between Tie-bars (HXV)		mm	460×460											
	Platen Size (H×V)		mm	620×620											
	Locating Ring Diameter		mm	100											
	Ejector Point			5 points											
	Ejector Force		kN {tf}	32.4 {3.3}											
	Ejector Stroke		mm	100											
	General	Machine Weight		t	4.0			4.5					4.6		
Machine Dimensions (L×W×H)		m	4.54×1.16×1.67			4.64×1.23×1.67			4.83×1.23×1.67			4.95×1.23×1.67			

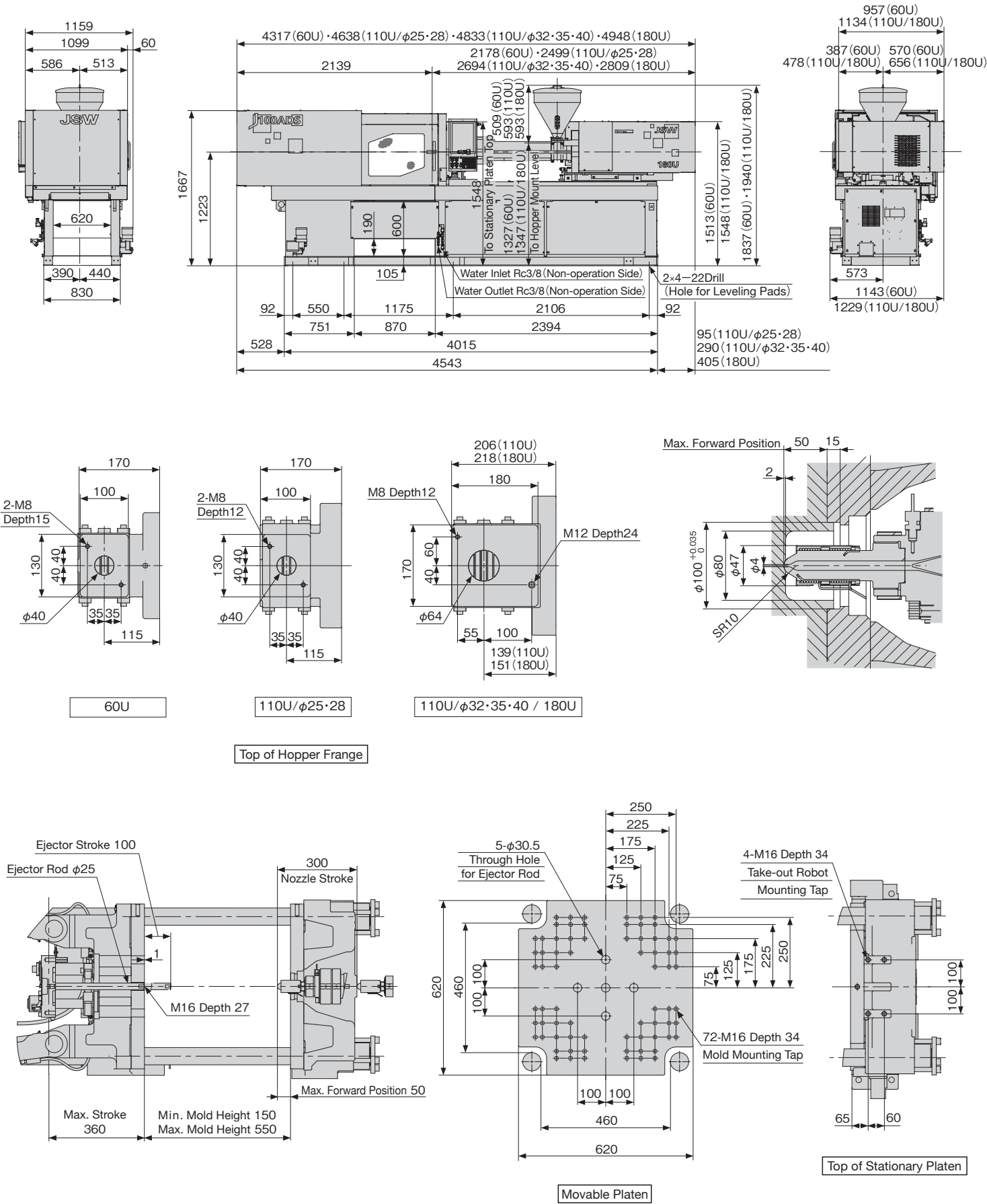
Remarks:

- Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
- The theoretical injection capacity is (cross sectional area of barrel) × (stroke of screw).
- The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding conditions and mold.
- The plasticizing rate is applicable for GP-PS.
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Note:

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- 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.
- High speed injection and Ext. holding pressure injection are optional.
- 1MPa=10.2 kgf/cm², 1kN=0.102tf

Equipment Dimensions and Mold Related Dimensions



Performance Table

Unit	Model		J130ADS												
			60U			110U					180U				
Injection Unit	Screw Diameter		mm	25	28	32	25	28	32	35	40	35	40	45	
	Screw Stroke		mm	100			100			120			140		
	Theoretical Injection Capacity		cm³	49	62	80	49	62	97	115	151	135	176	223	
	Injection Capacity (GP-PS)		g	45	56	73	45	56	88	105	137	123	160	203	
	Standard	Injection Pressure (Max.) MPa(kgf/cm²)		270 2750	215 2190	165 1680	320 3260	300 3060	270 2750	225 2290	172 1750	260 2650	199 2020	157 1600	
		Holding Pressure (Max.) MPa(kgf/cm²)		245 2490	195 1980	150 1530	290 2960	275 2800	245 2490	205 2090	157 1600	236 2400	181 1840	143 1450	
		Injection Speed		mm/s	350			350					350		
		Injection Rate		cm³/s	172	216	281	172	216	281	337	440	337	440	557
		Plasticizing Capacity (GP-PS)		kg/h	34	46	74	34	46	74	92	123	92	127	166
		Screw Speed		min⁻¹	400			400					400		
	High Speed (Option)	Injection Pressure (Max.) MPa(kgf/cm²)		270 2750	215 2190	165 1680	320 3260	300 3060	270 2750	225 2290	172 1750	260 2650	199 2020	157 1600	
		Holding Pressure (Max.) MPa(kgf/cm²)		245 2490	195 1980	150 1530	290 2960	275 2800	245 2490	205 2090	157 1600	236 2400	181 1840	143 1450	
		Injection Speed		mm/s	500			500					500		
		Injection Rate		cm³/s	245	308	402	245	308	402	481	628	481	628	795
		Plasticizing Capacity (GP-PS)		kg/h	34	46	74	34	46	74	92	123	92	127	166
		Screw Speed		min⁻¹	400			400					400		
	Ext. Holding Pressure (Option)	Injection Pressure (Max.) MPa(kgf/cm²)		270 2750	215 2190	165 1680	320 3260	300 3060	270 2750	225 2290	172 1750	260 2650	199 2020	157 1600	
		Holding Pressure (Max.) MPa(kgf/cm²)		245 2490	195 1980	150 1530	290 2960	275 2800	245 2490	205 2090	157 1600	236 2400	181 1840	143 1450	
		Injection Speed		mm/s	250			250					200		
		Injection Rate		cm³/s	123	154	201	123	154	201	241	314	192	251	318
		Plasticizing Capacity (GP-PS)		kg/h	34	46	74	34	46	74	92	123	92	127	166
		Screw Speed		min⁻¹	400			400					400		
Nozzle Touch Force		kN{tf}	19.6{2.0} Center Touch			24.5{2.5} Center Touch									
Nozzle Stroke from Platen		mm	50												
Type of Nozzle			Open Nozzle												
Barrel Temperature Control			Barrel 4, Nozzle 2												
Heater Wattage		kW	5.5			6.7		9.2			10.2				
Clamping Unit	Mechanism		Double Toggle												
	Clamping Force		kN{tf}	1300{133}											
	Daylight Opening (Max.)		mm	950											
	Opening Stroke (Max.)		mm	400											
	Mold Height		mm	150~550											
	Distance Between Tie-bars (H×V)		mm	530×510											
	Platen Size (H×V)		mm	710×690											
	Locating Ring Diameter		mm	100											
	Ejector Point			5 points											
	Ejector Force		kN{tf}	32.4{3.3}											
	Ejector Stroke		mm	100											
	General	Machine Weight		t	5.3			5.8					5.9		
Machine Dimensions (L×W×H)		m	4.76×1.34×1.73			4.76×1.34×1.73		4.95×1.34×1.73			5.07×1.34×1.73				

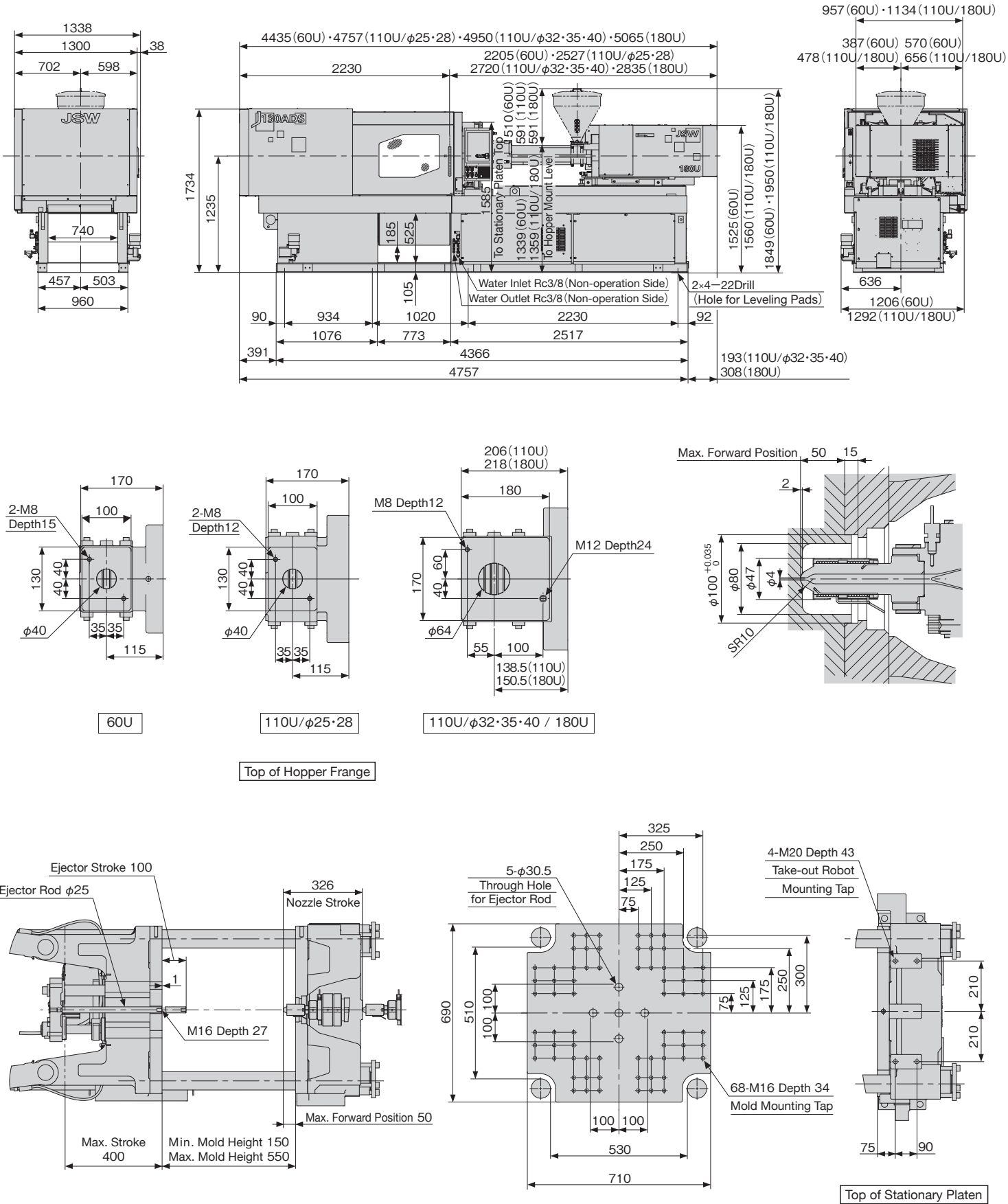
Remarks:

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- 1MPa=10.2 kgf/cm², 1kN=0.102tf

Equipment Dimensions and Mold Related Dimensions



Equipment Dimensions and Mold Related Dimensions

Technical drawings of the JSW 300U mold machine, showing various views and dimensions for different configurations (110U, 180U, 300U).

Main Dimensions (Overall):

- Top View: 1413 (110U/180U) / 1382 (300U) x 1035 (110U/180U) / 1035 (300U)
- Side View: 1794 (110U/180U) / 1794 (300U) x 5086 (110U/180U) / 5086 (300U)

Key Features and Dimensions:

- Water Inlet/Outlet:** Rc3/8 (Non-operation Side)
- Stationary Platen Top:** 1660 (110U/180U) / 1660 (300U)
- Hopper Mount Level:** 1404 (300U)
- Drill Holes:** 2-5-22 Drill (Hole for Leveling Pads)
- Leveling Pads:** 131 (110U/180U) / 245 (180U) / 617 (300U)

Top of Hopper Frange Details:

- 110U/φ25·28:** 170 (110U) / 218 (180U) x 115 (110U) / 115 (180U)
- 110U/φ32·35·40 / 180U:** 180 (110U) / 180 (180U) x 100 (110U) / 100 (180U)
- 300U:** 260 (110U) / 260 (180U) x 195 (110U) / 195 (180U)

Top of Stationary Platen Details:

- 110U / 180U:** 50 (110U) / 50 (180U) x 15 (110U) / 15 (180U)
- 300U:** 50 (110U) / 50 (180U) x 15 (110U) / 15 (180U)

Movable Platen Details:

- 110U / 180U:** 120 (110U) / 120 (180U) x 120 (110U) / 120 (180U)
- 300U:** 120 (110U) / 120 (180U) x 120 (110U) / 120 (180U)

Other Dimensions:

- Ejector Stroke:** 130
- Ejector Rod:** φ25
- Nozzle Stroke:** 368
- Max. Forward Position:** 50
- Max. Stroke:** 470
- Min. Mold Height:** 200
- Max. Mold Height:** 600
- Through Hole for Ejector Rod:** 9-φ33
- Take-out Robot Mounting Tap:** 4-M20 Depth 43
- Mold Mounting Tap:** 72-M16 Depth 34

Remarks:

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Standard Equipment List

Item			
Injection unit	Open Nozzle(Tip type)/ Injection Units up to 300U		Note 1
	KC Nozzle/15U-180U		
	N2000F Barrel		
	LSP-2 screw (Abrasion-resistant type)/15U-180U		Note 2
	Chrome-plated Screw/300U		Note 2
	Screw Pull-back		
	Injection Unit Swiveling Device (with Limit Switch)		
	Screw Cold Start Prevention		
	Molding/Purging/Pause Temperature Select		
	Auto Purging Circuit		
	Nozzle Retract Select		
	Injection/Metering Programmed Control	Injection/Holding Pressure:1 to 6 Steps (Variable) Metering/Back Pressure:1 to 3 Steps (Variable)	
	Holding Pressure Control Select		
	Pull-back Select		
	IVS Contro (I Holding Pressure Transfer by Speed Detection)		
	Barrel Temperature Control (PID)		
	Synchronous Temperature Rise Control		
	Hopper Flange Temperature Control		
	Soft Pack Servo Control		
	HAVC (High Accuracy Volume Cotrol)		
	IWCS (Injection Weight and Cushion Stability) Ccontrol		
	Reverse seal Control		
	Auto Grease Lubrication		
	Barrel Insulation Cover		
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 Ejection Programmed Control	Mold Open/Close : 4 Steps (Fixed) Ejection : 1 to 3 Steps (Variable)	
	Mold Protection Function		
	Electric-driven Mold Thickness Adjusting Device		
	Auto Clamp Force Setting		
	Ejector Plate Return Confirmation Circuit		
	Toggle Type Injection Compression Function	A-mode B-mode Compression: 1 to 6 Steps (Variable)	
	Parallel Motion	Screw Rotation During Mold Open/Close Eject During Mold Open Injection During Clamp Up	
	Clamping Safety Device (Mechanical/Electrical)		
	Robot Mounting Holes		
	Grease-free Toggle Bushing		
	Auto Grease Lubrication		
	Servo Motor With Brake (Mold O/C・EJ)		

- Note 1. Nozzle of 300U is one piece type nozzle.
- Note 2. Screw of injection units 15U,30U,60U,110U and 180U, LSP-2(Abrasion-resistant type)GP21 screw is equipped as standard.
Screw of injection units 300U, Chrome-plated GP21 screw is equipped as standard.
- Note 3. USB memory device as external memory is capable of storing of molding conditions.
- Note 4. Screen Capture can be saved in PNG format, and measuring data can be saved in CSV format.
- Note 5. The printer and the printer cables are options.
- Note 6. Maximum of 16 items and alarms can be selected out of the following monitor items.
①Cycle time ②Injection time ③Metering time ④Max Injection pressure ⑤Cushion position
⑥Holding pressure end position ⑦Holding pressure transfer pressure ⑧Screw back pressure
⑫Metering torque ⑬Holding pressure transfer speed ⑭Mold close time ⑮Mold open time
⑯Clamping force ⑰Shift stroke (HAVC) ⑱End speed (HAVC)
- Note 7. Maintenance monitor based on molding condition.

Item		
Controller	Multi-touch Panel 15" TFT Color LCD Controller	
	Multi-language Select (English, Chinese, Japanese)	
	300 Mold Conditions Storage (Internal Memory)	Note 3
	Soft Start Molding	
	Self Diagnostics Function	
	I/O Customize Function	
	Molding Operation Assist Function	
	Help Function	
	Pop-up Display	
	Manual Browsing Function	
	Start-up Safety Notice	
	Molding Condition MEMO	
	Screen Caputere Files Can Be Stored to USB Memory Device	Note 4
	USB Printer Port	Note 5
	Overall Setting Screen	
	Pre-heat Timer	
	Product Takeout Robot Circuit	
	Attended/Unattended Operation Select	
Monitor	Actual Value Display	
	Injection/Metering Waveform Monitor	
	Injection/Metering Waveform Storage	
	Osilloscope Waveform Monitor	
	Energy Consumption and Regeneration Monitor	
	Barrel Temperature Monitor	
	Injection Pressure Monitor (IPM)	
	Statistical Graph	
	Production Monitor	
	Cumlative Operating Hour Display	
	Cycle Monitor	
	Molding Condition Upper/Lower Limit Monitor	Note 6
	Inspection and Maintenance Guide	Note 7
	Heater System Alarm	
Others	Injection Pressure Overshoot Alarm	
	Servo Fault Alarm	
	Grease Lubrication Alarm	
	Fault Alarm Buzz	
	Alarm History	
	Set Value History	
	Safty Compliance to JIMS K1001	
	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)	Note. 1
	KC Nozzle (300U)	
	M7 Screw (Plasticization type)	
	HP Screw (High Dispersion Type)	
	LSP-2 Screw (Abrasion-resistant Type) (300U)	
	Chrome Plated Screw (15U-180U)	
	Screws and Barrels for Optical Application	
	Screws and Barrels for Super Engineered Plastics Application	
	Special Screw	Note. 2
	Barrel Blower Cooling Unit	
	Hopper	
	Hopper Slide Device	
	High-speed injection spec.	
Clamping unit	Extended Holding Presure Time	Note. 3
	Long-time Plasticizing Spec.	Note. 4
	Mold Platen Heat Insulation Bord (5 or 10mm)	Note. 5
	Locating Ring	
	Air Jet	
	Core Pull Devices (Pneumatic Type and Hydraulic Type)	
	Valve Gate Device (Pneumatic Type and Hydraulic Type)	
	Coupler joint (Hydraulic, Pneumatic)	
	Hydraulic Power Pack (40L or 60L) Internal Unit	
	Ejector Gate Cutting Circuit	
	Unscrewing Motor Circuit	
	Product Drop Detector (Photoelectric)	
	Chute	
	Rejecting Product Detecting Chute	
	T-groove Platen	
	Mold Setup Device	Note. 5
	Mold Clamper Device (Pneumatic Type, Hydraulic Type, Magnet Type)	
	Easy Mold Clamper (Easy clamp)	
	Clamping Force Monitoring Function	
	Clamping Force Feedback Control	

Utilities

■ Total Power Capacity

Machine Model		Total Power Capacity (kVA)		
		Standard Injection	High Speed Injection	Ext. Holding Pressure
J30ADS	15U	5.2	5.6	5.6
	30U	5.8	6.5	6.5
J50ADS	15U	5.6	6.0	6.0
	30U	6.2	6.9	6.9
J80ADS	60U	9.4	10.2	10.2
	30U	6.2	6.9	6.9
	110U	13.9	15.4	13.9
J100ADS	60U	9.6	10.4	10.4
	110U	14.1	16.7	14.1
	180U	16.7	18.3	16.7
J130ADS	60U	9.6	10.4	10.4
	110U	14.1	15.7	14.1
	180U	16.7	18.3	16.7
J180ADS	110U	12.8	14.4	12.8
	180U	14.9	16.5	14.9
	300U	19.2	20.6	19.2

- 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 25kA at AC400V/460V.

Item		
Electrical Insulation and Control	Multi-language Select (1 Language Additional)	Note. 6
	Centralized Control System NET100	
	Mold Temperature Display (with Mold Temperature Upper/Lower Limit Alarm)	
	Mold Temperature Control Device (with Mold Temperature Upper/Lower Limit Alarm)	
Other	Mold Cooling Water Circuit (Installed on bed) Max. 60 °C	
	Cooling Water Alarm	
	Leveling Pad for Installation	
	Machine Movement Prevention Device (Anchor Bolts)	
	Rotary Warning Light (Single Color, 3 Colors)	
	Export Specification	Note. 7
	Designated Color (Bed and Cover)	Note. 8

- Note 1. Pneumatically actuated shut-off nozzle or hydraulically actuated shut-off nozzle can be selected.
When selecting a hydraulically actuated nozzle, discussion with JSW is required.
- Note 2. Contact us for the special screws.
- Note 3. Specification for reducing motor load during long-time holding pressure molding under high holding pressure.
- Note 4. Specification for reducing motor load during high plasticization torque molding.
- Note 5. When thermal insulation boards or magnet mold clampers are equipped, their thicknesses should be considered for calculating the nozzle insertion amount.
In addition, please note that the usable mold thickness range will change.
- Note 6. English and Chinese are equipped as standard.
- Note 7. Regarding export specifications, discussion with JSW is required in some cases, depending upon the export destinations.
- Note 8. Please designate colors, referring to color.

■ Cooling Water Capacity for Barrel Temperature Control

Machine Model	Cooling Water Capacity for Barrel Temperature Control (m³/h)
15U	0.2
30U	
60U	0.3
110U	
180U	0.4
300U	

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