

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 Fax: +81-3-5745-2083~84
URL http://www.jsw.co.jp/inj_f/inj_index.htm

JSW Plastics Machinery Inc.

Head Office: 555 South Promenade Ave., Unit 104, Corona, California 92879, U.S.A.
Phone: +1-951-898-0934 Fax: +1-951-898-0944

Chicago Office: 540 Capital Drive, Suite 130, Lake Zurich, Illinois 60047, U.S.A.
Phone: +1-847-550-0704 Fax: +1-847-550-0725

Detroit Office: 24301 Catherine Industrial Drive, Unit 118, Novi, Michigan 48375, U.S.A.
Phone: +1-248-449-5422 Fax: +1-248-449-6018

JSW Plastics Machinery (S) Pte Ltd

Head Office: 17 Gul Lane 629413 Singapore
Phone: +65-68614511 Fax: +65-68623166

Philippine Office: Unit 802 Alabang Business Tower, 1216 Acacia Avenue, Madrigal Business
Park Alabang Muntinlupa city Metro Manila 1771, Philippines
Phone: +63-2-478-2533 Fax: +63-2-478-2534

Indonesia Office: Gedung Gajah Unit K, Jl. Dr. Saharjo No. 111 RT. 001/01, Kel. Tebet Barat,
Kec. Tebet Jakarta 12810, Indonesia
Phone: +62-21-8370-2536 Fax: +62-21-829-8264

JSW Plastics Machinery (M) SDN. BHD.

D6-5-G,(Ground Floor), Block D6, Pusat Perdagangan Dana 1,
Jalan Pju 1A/46, 47301, Petaling Jaya, Selangor Darul Ehsan, Malaysia
Phone: +60-3-78426076 Fax: +60-3-78426078

JSW Plastics Machinery (T) Co., Ltd.

78/6 JST Building 4th Fl., Moo 7 King Kaew Road, Rachatewa,
Bangplee, Samutprakarn 10540 Thailand
Phone: +66-2-738-5272 Fax: +66-2-738-5277

JSW Plastics Machinery Vietnam Ltd.

Room103, Techno-Center Thang Long Industrial Park Dong Anh District,
Hanoi, Viet Nam
Phone: +84-4-3951-6383 Fax: +84-4-3951-6384

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

Room 907, Corporation Park, 11 On Lai Street, Shatin N.T., Hong Kong
Phone: +852-2648-0720 Fax: +852-2686-8204

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 Fax: +86-755-8602-0934

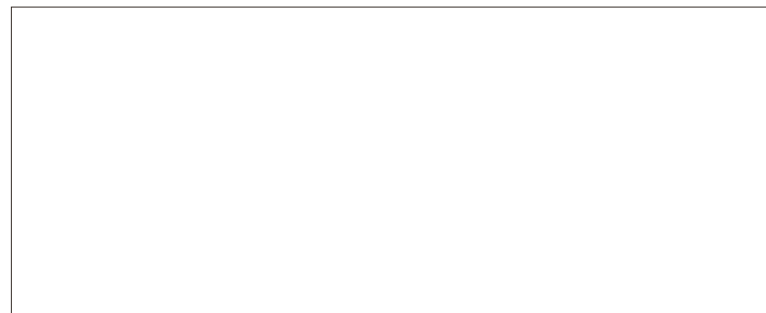
JSW Machinery Trading (Shanghai) Co., Ltd.

28A, Strength Plaza, No.600-4, Tianshan Road, Shanghai, 200051,
People's Republic of China
Phone: +86-21-5206-7031 Fax: +86-21-5206-7033

JSW Plastics Machinery (TAIWAN) Corp.

Head Office: 1F, No.21, Da Hu 1st Road, Guieshan Shiang Taoyuan Country 33373 Taiwan, R.O.C.
Phone: +886-3-396-2102 Fax: +886-3-396-2104

Tainan Office: 15F,-7, No.689-78, Xiaodong Road, Yongkang City, Tainan Country 71052 Taiwan, R.O.C.
Phone: +886-6-311-4192 Fax: +886-6-311-4193



JAD SERIES

All Electric Servo Drive
Injection Molding Machine



Specifications

Model	
J35AD	
J55AD	
J85AD	
J110AD	
J140AD	
J180AD	

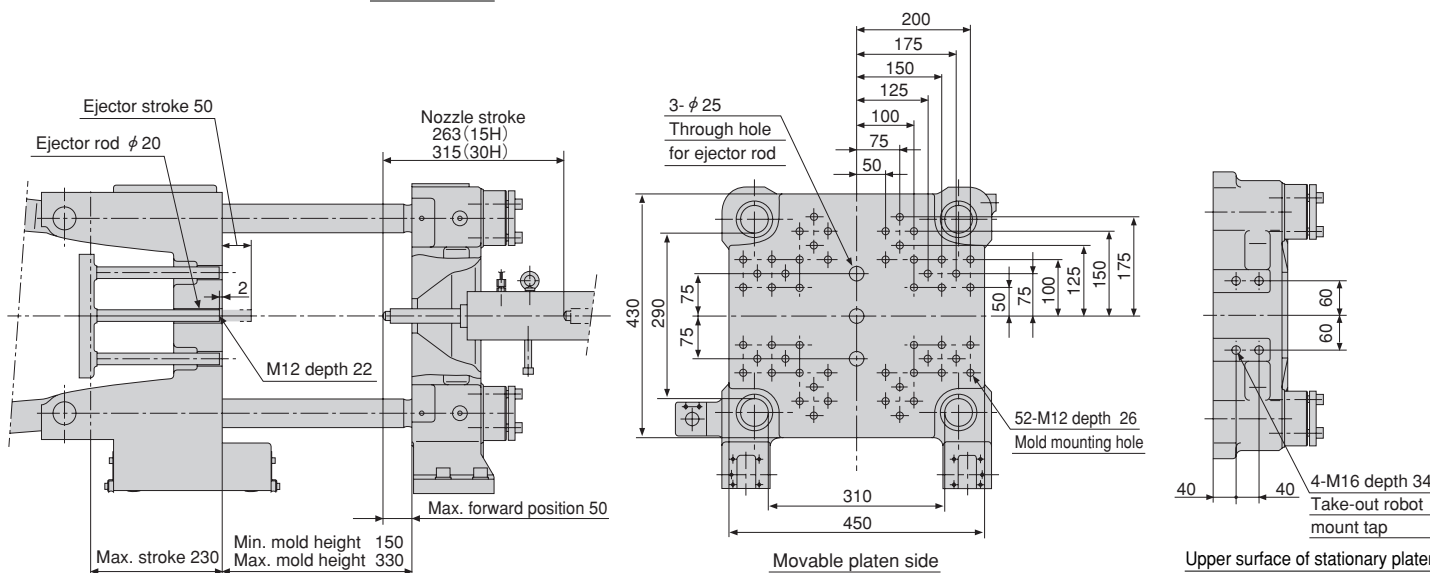
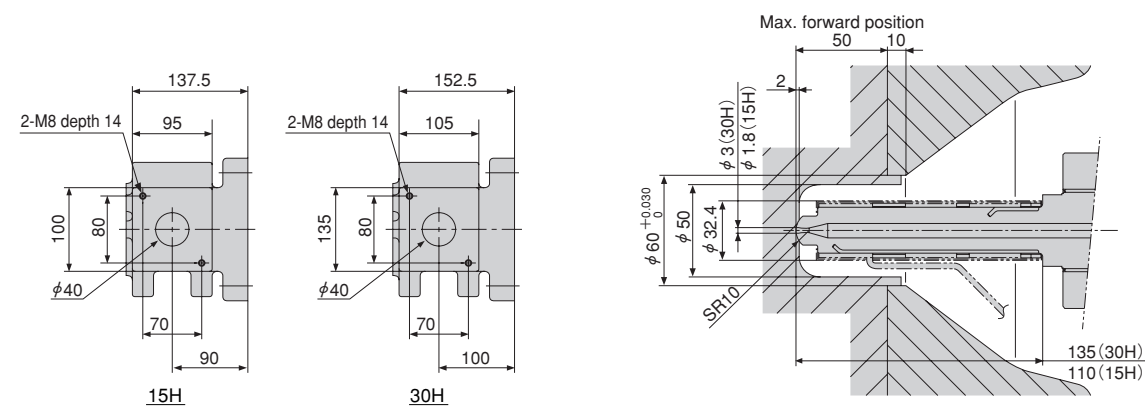
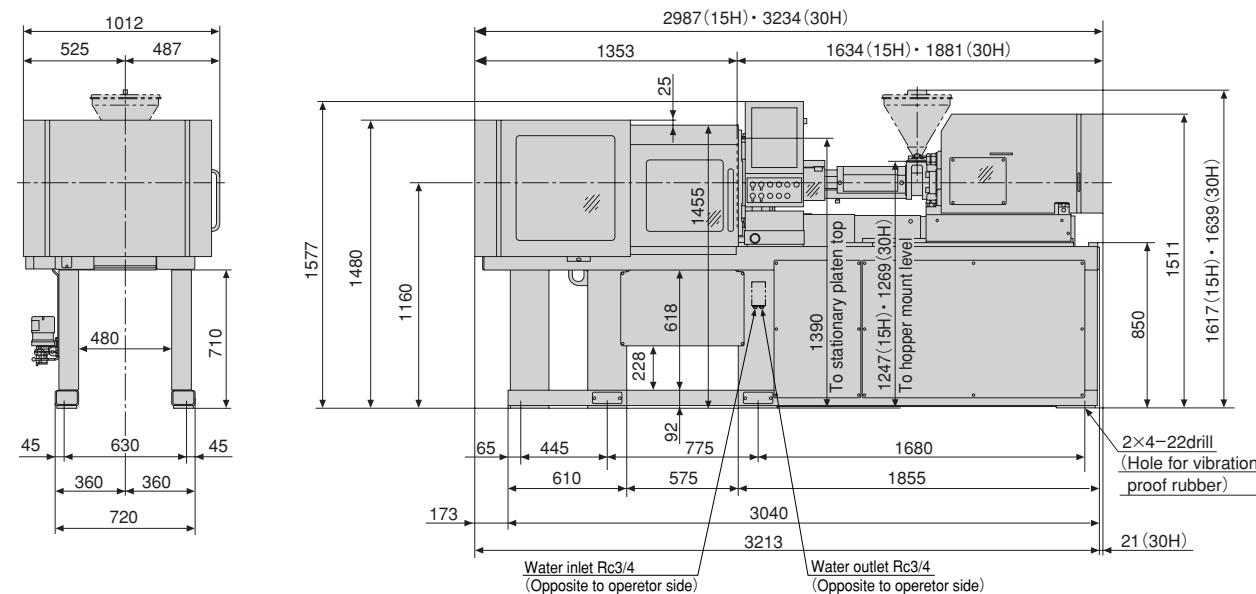
Unit	Model	J35AD						
		15H			30H			
Screw barrel type	K	A	B	K	A	B		
Screw diameter	mm	16	18	20	20	22	25	
Screw stroke	mm	60			80			
Theoretical injection capacity	cm ³	12	15	18	25	30	39	
Injection capacity (GP-PS)	g	11	14	17	23	28	38	
Standard	Injection pressure (Max.)	MPa (kgf/cm ²)	276 (2810)	218 (2220)	177 (1800)	270 (2750)	223 (2270)	172 (1750)
	Holding pressure (Max.)	MPa (kgf/cm ²)	251 (2560)	198 (2010)	161 (1640)	245 (2490)	203 (2070)	157 (1600)
	Injection speed	mm/s	350			350		
	Injection rate	cm ³ /s	70	89	110	110	133	172
	Plasticizing rate (GP-PS)	kg/h	10	14	17	17	21	28
	Screw speed	min ⁻¹	500			500		
	Injection Unit High speed (HS)	Injection pressure (Max.)	MPa (kgf/cm ²)	276 (2810)	218 (2220)	177 (1800)	270 (2750)	223 (2270)
Holding pressure (Max.)		MPa (kgf/cm ²)	251 (2560)	198 (2010)	161 (1640)	245 (2490)	203 (2070)	157 (1600)
Injection speed		mm/s	550			550		
Injection rate		cm ³ /s	111	140	173	173	209	270
Plasticizing rate (GP-PS)		kg/h	10	14	17	17	21	28
Screw speed		min ⁻¹	500			500		
Injection Unit Ultra speed (US)		Injection pressure (Max.)	MPa (kgf/cm ²)	276 (2810)	218 (2220)	177 (1800)	270 (2750)	223 (2270)
	Holding pressure (Max.)	MPa (kgf/cm ²)	251 (2560)	198 (2010)	161 (1640)	245 (2490)	203 (2070)	157 (1600)
	Injection speed	mm/s	800			800		
	Injection rate	cm ³ /s	161	204	251	251	304	393
	Plasticizing rate (GP-PS)	kg/h	10	14	17	17	21	28
	Screw speed	min ⁻¹	500			500		
	Nozzle touch force	kN (tf)	9.9 (1.0)			14.8 (1.5)		
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)	344 (35)					
	Daylight opening (Max.)	mm	560					
	Opening stroke (Max.)	mm	230					
	Mold height	mm	150~330					
	Distance between tie-bars (H×V)	mm	310×290					
	Platen size (H×V)	mm	450×430					
	Ejector point		3 points					
	Ejector force	kN (tf)	9.9 (1.0)					
	Ejector stroke	mm	50					
General	Machine weight	t	2.5			2.6		
	Machine dimensions (L×W×H)	m	3.21×1.01×1.58			3.23×1.01×1.58		

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. High speed injection and Ultra speed injection are optional.
5. 1MPa=10.2 kgf/cm², 1kN=0.102tf



Performance Table

Equipment Dimensions and Mold Related Dimensions

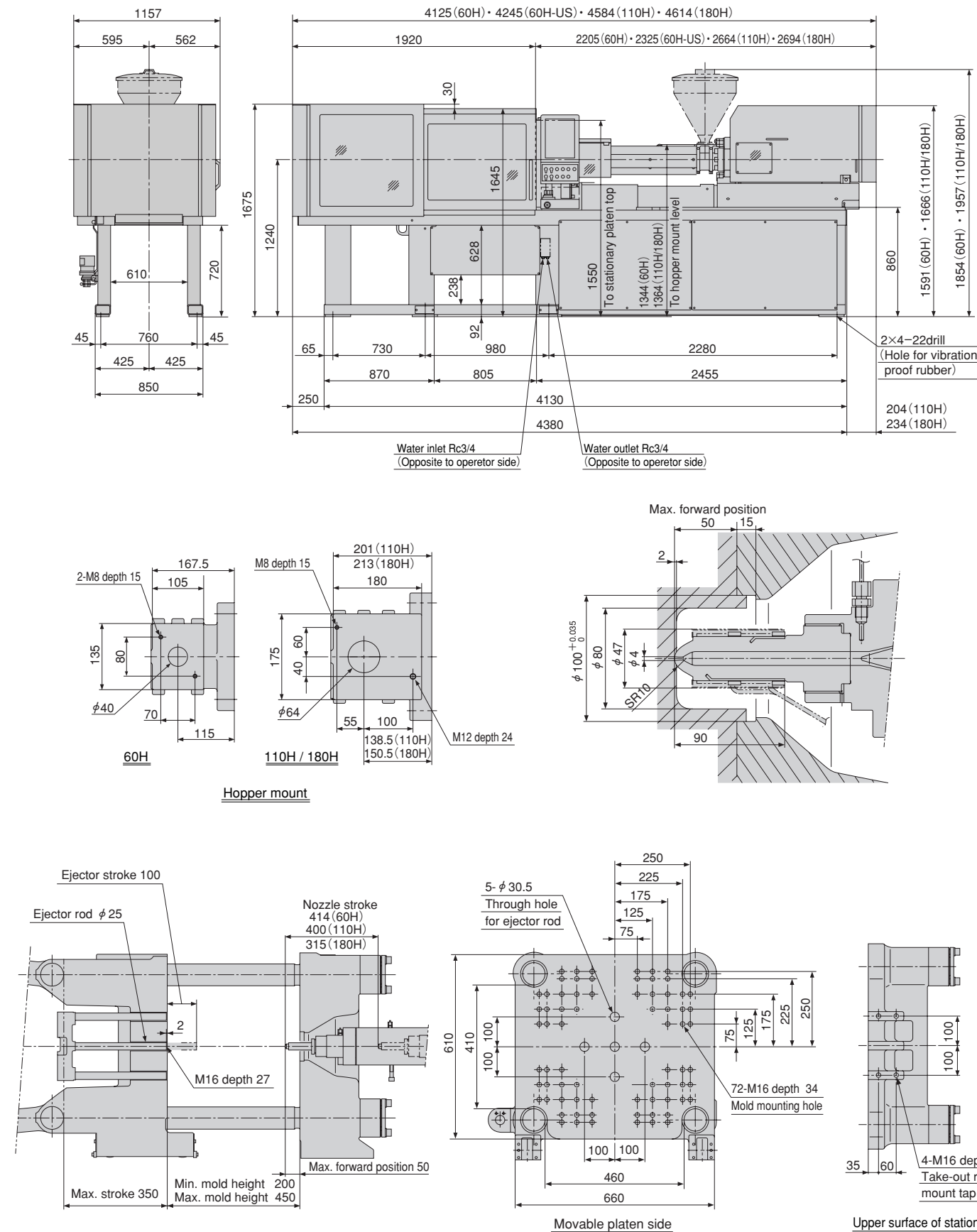
Unit	Model	J110AD										
		60H			110H			180H				
Screw barrel type		K	A	B	K	A	B	K	A	B		
Screw diameter	mm	25	28	32	32	35	40	35	40	45		
Screw stroke	mm	100			120			140				
Theoretical injection capacity	cm ³	49	62	80	97	115	151	135	176	223		
Injection capacity (GP-PS)	g	45	56	73	88	105	137	123	160	203		
Standard	Injection pressure (Max.)	MPa (kgf/cm ²)	270 {2750}	215 {2190}	165 {1680}	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}	
	Holding pressure (Max.)	MPa (kgf/cm ²)	245 {2490}	195 {1980}	150 {1530}	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}	
	Injection speed	mm/s	350			350			350			
	Injection rate	cm ³ /s	172	216	281	281	337	440	337	440	557	
	Plasticizing rate (GP-PS)	kg/h	34	46	74	74	92	123	92	127	166	
	Screw speed	min ⁻¹	400			400			400			
Injection Unit	High speed (HS)	Injection pressure (Max.)	MPa (kgf/cm ²)	270 {2750}	215 {2190}	165 {1680}	—	—	—	—	—	
		Holding pressure (Max.)	MPa (kgf/cm ²)	245 {2490}	195 {1980}	150 {1530}	—	—	—	—	—	
		Injection speed	mm/s	500			—			—		
		Injection rate	cm ³ /s	245	308	402	—	—	—	—	—	—
		Plasticizing rate (GP-PS)	kg/h	34	46	74	—	—	—	—	—	—
		Screw speed	min ⁻¹	400			—			—		
Injection Unit	Ultra speed (US)	Injection pressure (Max.)	MPa (kgf/cm ²)	270 {2750}	215 {2190}	165 {1680}	—	—	—	—	—	
		Holding pressure (Max.)	MPa (kgf/cm ²)	245 {2490}	195 {1980}	150 {1530}	—	—	—	—	—	
		Injection speed	mm/s	800			—			—		
		Injection rate	cm ³ /s	393	493	643	—	—	—	—	—	—
		Plasticizing rate (GP-PS)	kg/h	34	46	74	—	—	—	—	—	—
		Screw speed	min ⁻¹	400			—			—		
Clamping Unit	Nozzle touch force	kN (tf)	14.8 {1.5}			19.7 {2.0}			19.7 {2.0}			
	Nozzle stroke from platen	mm	50									
	Type of nozzle		Open nozzle									
	Barrel temperature control		Barrel 4 / Nozzle 2									
	Heater wattage	kW	5.5			9.2			10.2			
	Mechanism		Double toggle									
	Clamping force	kN (tf)	1080 {110}									
	Daylight opening (Max.)	mm	800									
	Opening stroke (Max.)	mm	350									
	Mold height	mm	200~450									
	Distance between tie-bars (HXV)	mm	460×410									
Platen size (H×V)	mm	660×610										
Ejector point		5 points										
Ejector force	kN (tf)	32.4 {3.3}										
Ejector stroke	mm	100										
General	Machine weight	t	4.8			4.9			4.9			
	Machine dimensions (L×W×H)	m	4.38×1.16×1.68			4.58×1.16×1.68			4.61×1.16×1.68			

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.
- 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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- Performance specifications are based on theoretical data.
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- 1MPa=10.2 kgf/cm², 1kN=0.102tf



Performance Table

Equipment Dimensions and Mold Related Dimensions

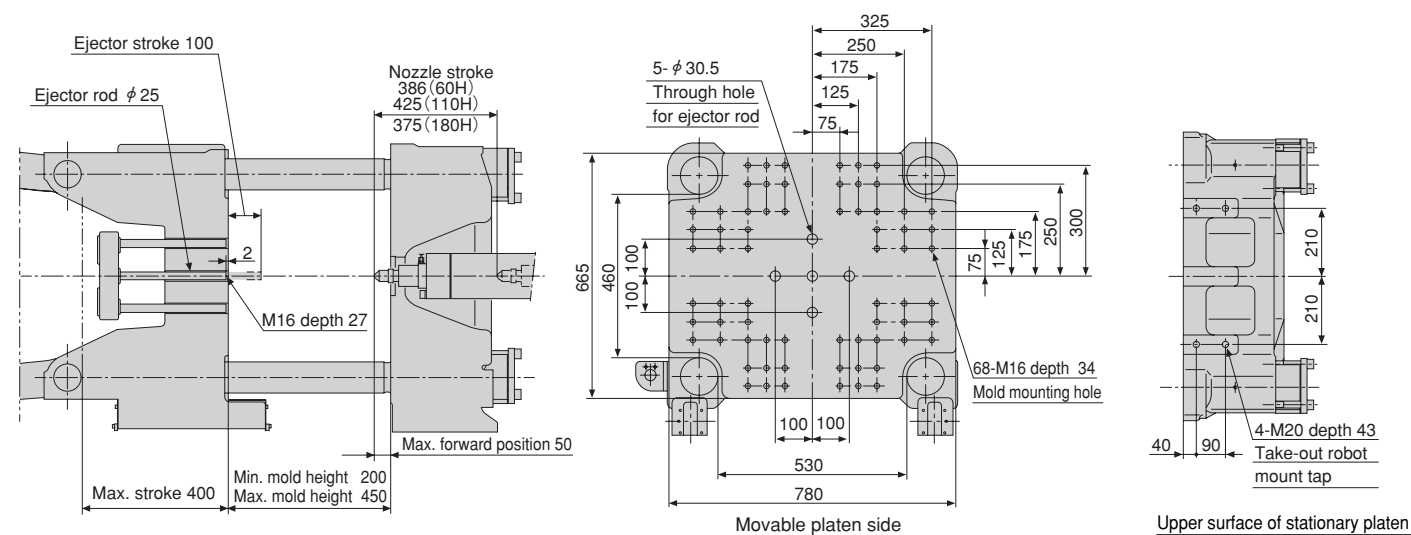
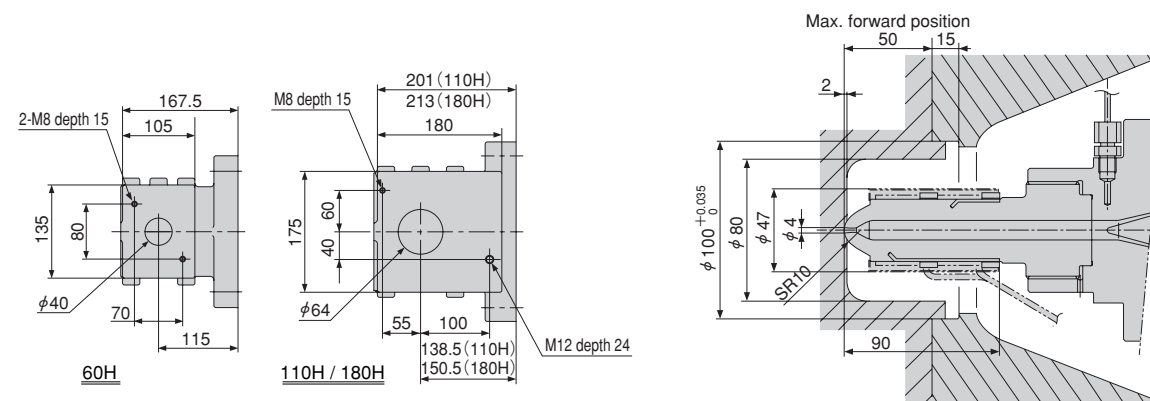
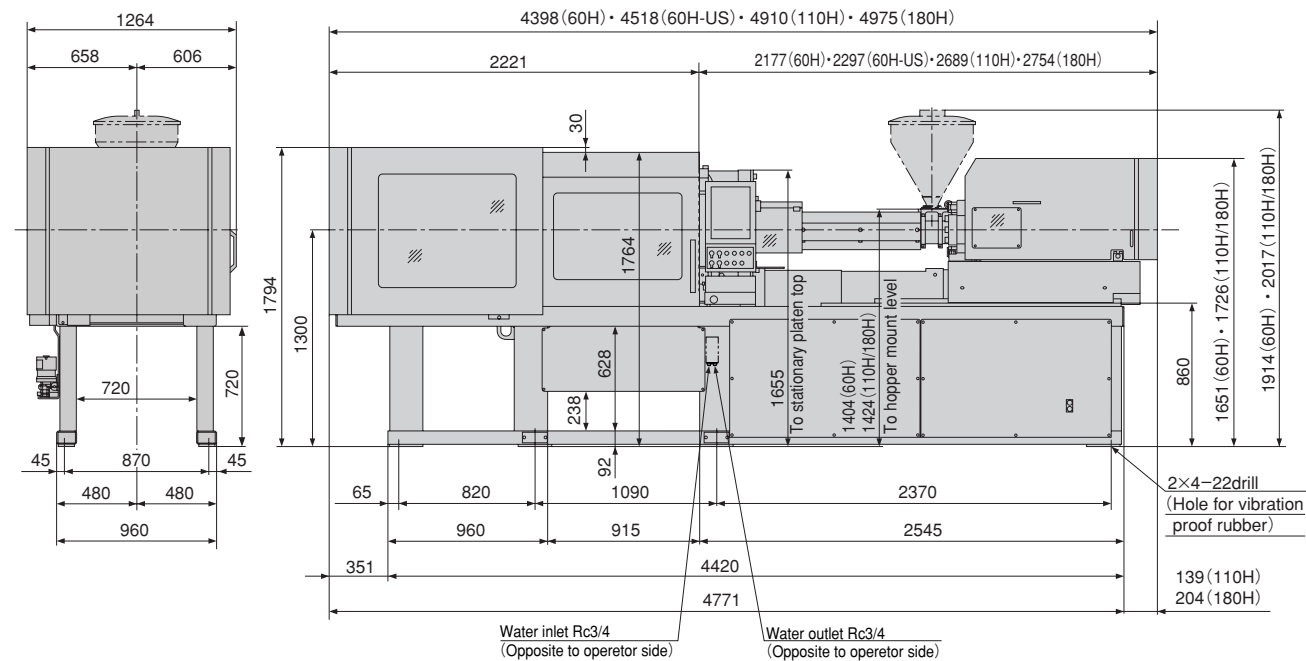
Unit	Item	J140AD									
		60H			110H			180H			
Injection Unit	Screw barrel type	K	A	B	K	A	B	K	A	B	
	Screw diameter mm	25	28	32	32	35	40	35	40	45	
	Screw stroke mm	100			120			140			
	Theoretical injection capacity cm ³	49	62	80	97	115	151	135	176	223	
	Injection capacity (GP-PS) g	45	56	73	88	105	137	123	160	203	
	Standard	Injection pressure(Max.) MPa(kgf/cm ²)	270 {2750}	215 {2190}	165 {1680}	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}
		Holding pressure(Max.) MPa(kgf/cm ²)	245 {2490}	195 {1980}	150 {1530}	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}
		Injection speed mm/s	350			350			350		
		Injection rate cm ³ /s	172	216	281	281	337	440	337	440	557
		Plasticizing rate (GP-PS) kg/h	34	46	74	74	92	123	92	127	166
		Screw speed min ⁻¹	400			400			400		
	High speed (HS)	Injection pressure(Max.) MPa(kgf/cm ²)	270 {2750}	215 {2190}	165 {1680}	—	—	—	—	—	—
		Holding pressure(Max.) MPa(kgf/cm ²)	245 {2490}	195 {1980}	150 {1530}	—	—	—	—	—	—
		Injection speed mm/s	500			—			—		
		Injection rate cm ³ /s	245	308	402	—	—	—	—	—	—
Plasticizing rate (GP-PS) kg/h		34	46	74	—	—	—	—	—	—	
Screw speed min ⁻¹		400			—			—			
Ultra speed (US)	Injection pressure(Max.) MPa(kgf/cm ²)	270 {2750}	215 {2190}	165 {1680}	—	—	—	—	—	—	
	Holding pressure(Max.) MPa(kgf/cm ²)	245 {2490}	195 {1980}	150 {1530}	—	—	—	—	—	—	
	Injection speed mm/s	800			—			—			
	Injection rate cm ³ /s	393	493	643	—	—	—	—	—	—	
	Plasticizing rate (GP-PS) kg/h	34	46	74	—	—	—	—	—	—	
	Screw speed min ⁻¹	400			—			—			
Clamping Unit	Nozzle touch force kN (tf)	14.8 {1.5}			19.7 {2.0}			19.7 {2.0}			
	Nozzle stroke from platen mm	50									
	Type of nozzle	Open nozzle									
	Barrel temperature control	Barrel 4 / Nozzle 2									
	Heater wattage kW	5.5			9.2			10.2			
	Mechanism	Double toggle									
	Clamping force kN (tf)	1370 {140}									
	Daylight opening (Max.) mm	850									
	Opening stroke (Max.) mm	400									
	Mold height mm	200~450									
General	Distance between tie-bars (HXV) mm	530×460									
	Platen size (H×V) mm	780×665									
	Ejector point	5 points									
	Ejector force kN (tf)	32.4 {3.3}									
	Ejector stroke mm	100									
	Machine weight t	6.3			6.4			6.5			
	Machine dimensions (L×W×H) m	4.77×1.26×1.79			4.91×1.26×1.79			4.98×1.26×1.79			

Remarks:

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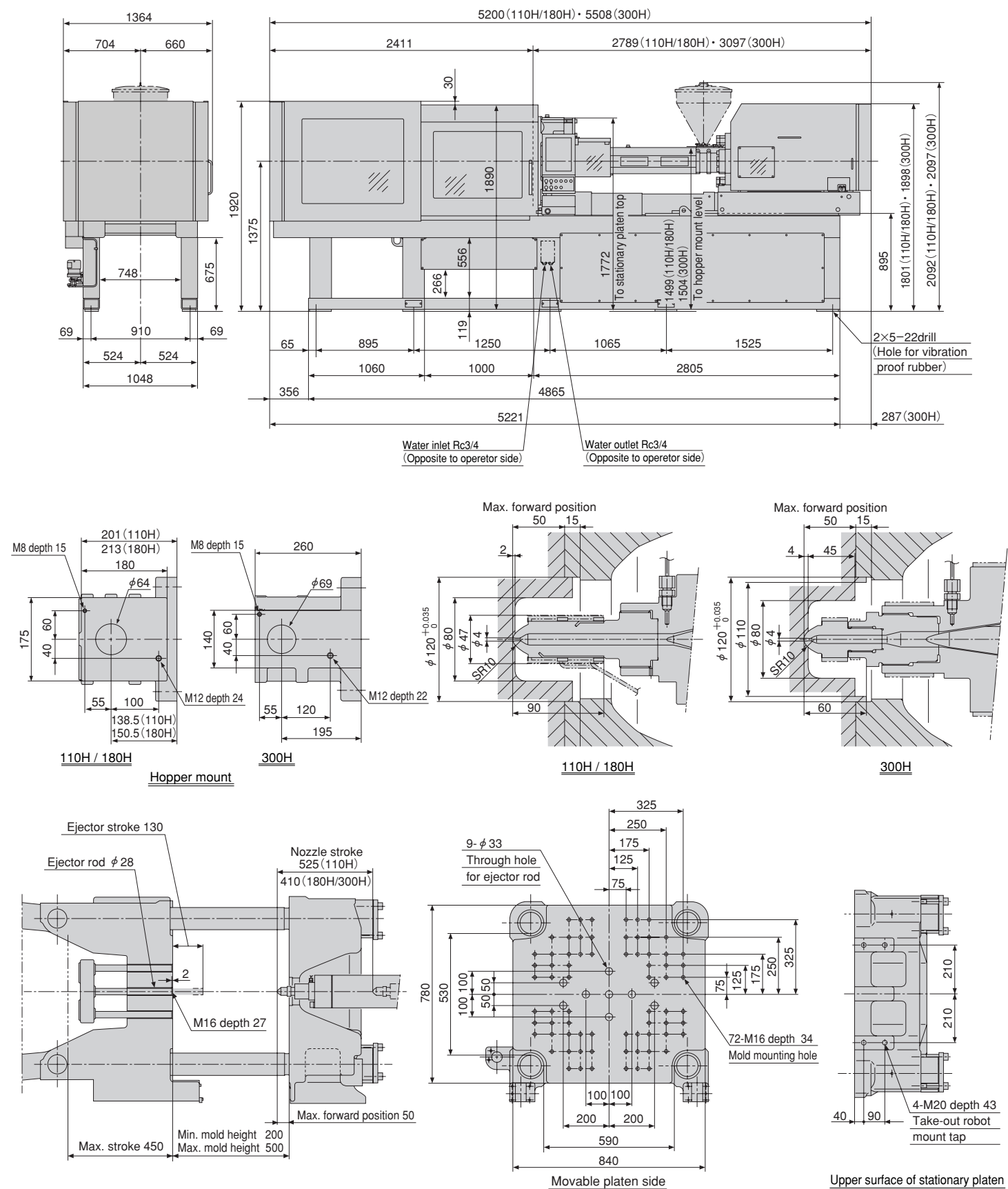
Unit	Model	J180AD								
		110H			180H			300H		
Screw barrel type		K	A	B	K	A	B	K	A	B
Screw diameter	mm	32	35	40	35	40	45	40	46	51
Screw stroke	mm	120			140			180		
Theoretical injection capacity	cm ³	97	115	151	135	176	223	226	299	368
Injection capacity (GP-PS)	g	88	105	137	123	160	203	206	273	335
Standard	Injection pressure (Max.)	270 {2750}	225 {2290}	172 {1750}	260 {2650}	199 {2020}	157 {1600}	250 {2550}	189 {1920}	154 {1570}
	Holding pressure (Max.)	245 {2490}	205 {2090}	157 {1600}	236 {2400}	181 {1840}	143 {1450}	227 {2310}	172 {1750}	140 {1420}
	Injection speed	350			350			240		
	Injection rate	281	337	440	337	440	557	302	399	490
	Plasticizing rate (GP-PS)	74	92	123	92	127	166	130	184	232
	Screw speed	400			400			400		
Injection Unit High speed (HS)	Injection pressure (Max.)	—	—	—	—	—	—	250 {2550}	189 {1920}	154 {1570}
	Holding pressure (Max.)	—	—	—	—	—	—	227 {2310}	172 {1750}	140 {1420}
	Injection speed	—			—			330		
	Injection rate	—	—	—	—	—	—	415	548	674
	Plasticizing rate (GP-PS)	—	—	—	—	—	—	130	184	232
	Screw speed	—			—			400		
Injection Unit Ultra speed (US)	Injection pressure (Max.)	—	—	—	—	—	—	—	—	—
	Holding pressure (Max.)	—	—	—	—	—	—	—	—	—
	Injection speed	—			—			—		
	Injection rate	—	—	—	—	—	—	—	—	—
	Plasticizing rate (GP-PS)	—	—	—	—	—	—	—	—	—
	Screw speed	—			—			—		
Clamping Unit	Nozzle touch force	19.7 {2.0}			19.7 {2.0}			24.6 {2.5}		
	Nozzle stroke from platen	50								
	Type of nozzle	Open nozzle						Open nozzle (tip type)		
	Barrel temperature control	Barrel 4 / Nozzle 2						Barrel 4 / Nozzle 1		
	Heater wattage	9.2			10.2			13.0		
	Mechanism	Double toggle								
	Clamping force	1770 {180}								
	Daylight opening (Max.)	950								
	Opening stroke (Max.)	450								
	Mold height	200~500								
	Distance between tie-bars (HXV)	590×530								
Platen size (H×V)	840×780									
Ejector point	9 points									
Ejector force	34.3 {3.5}									
Ejector stroke	130									
General	Machine weight	9.0			9.0			9.5		
	Machine dimensions (L×W×H) m	5.22×1.36×1.92			5.22×1.36×1.92			5.51×1.36×1.92		

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Standard equipment

Item		
Injection unit	KC nozzle (Injection units up to 180H) (Note 1)	
	N2000F barrel (Note 2)	
	LSP-2 screw (abrasion-resistant type) (Injection units up to 180H)	
	Chrome-plated screw (Injection unit 300H)	
	Screw pull-back	
	Purge cover (with a limit switch)	
	Injection unit swiveling device (with a limit switch)	
	Screw cold start prevention	
	Molding/Pause temperature select	
	Auto purging circuit	
Clamping unit	Nozzle retract select	
	Pull-back select	
	Auto grease lubrication	
	Injection/Metering programmed control	Injection/Holding pressure: 1 to 6 steps (Variable) Metering/Back pressure: 1 to 3 steps (Variable)
	IVS control (Holding pressure transfer by speed detection)	
	Barrel temperature remote setting	
	Barrel temperature control (SSR)	
	Soft Pack Servo control	
	Hopper flange temperature control	
	IWCS (Injection Weight and Cushion Stability) control	
Others	Reverse seal control	
	Holding pressure control select	
	Synchronous temperature rise control	
	Grease-free toggle bushing	
	Auto grease lubrication	
	High-performance platen support	
	Wider platens	
	Flat press platen mechanism (Stationary side/Movable side)	
	Tie bar pre-tensioning mechanism	
	Mold open/close and ejection programmed control	Mold open/close: 4 steps (Fixed) Ejection: 1 to 3 steps (Variable)
Injection unit	Electric-driven mold thickness adjusting device	
	Mold thickness remote setting	
	Auto clamping force setting	
	Toggle type injection compression function	A-mode B-mode Compression: 1 to 6 steps (Variable)
	Mold protection function	
	Clamping safety device (Electrical/Mechanical)	
	Robot mounting holes	

Item	
Controller	Touch panel 15" TFT color LCD controller
	120 mold conditions storage (Internal memory) (Note 3)
	Soft start molding
	USB printer port (Note 4)
	Self diagnostics function
	Overall setting screen
	Help function
	Pop-up display
	Pre-heat timer
	Compound action
Monitor	Clock
	Attended/Unattended operation select
	Product takeout robot circuit
	Multi-language select (English, Chinese, Japanese)
	Injection pressure overshoot alarm
	Grease lubrication fault alarm
	Servo fault alarm
	Alarm buzzer
	Statistical graph
	Actual value display
Others	Mold temperature display (Note 5)
	Cumulative operating hour display
	Barrel temperature monitor
	Injection pressure monitor (IPM)
	Oscilloscope waveform monitor
	Injection/Metering waveform monitor
	Production monitor
	Cycle monitor
	Molding condition upper/lower limit monitor (Note 6)
	Injection/Metering waveform storage
Heater system fault	
Inspection and maintenance guide (Note 7)	
Alarm history	
Set value history	
Cooling water closed circuit (with a flow indicator)	
Accessories (Maintenance tools and Ejector rods, etc.)	

(Note)

- Nozzle of injection unit 300H, tip type nozzle is equipped as standard.
- One set of K, A or B type is equipped as standard.
- The external memory is capable of storing conditions for 1000 molds. Prepare commercial USB data storage media.
- The printer and the printer cables are options.
- Temperature sensors and electric wiring are not included.
- A maximum of 8 items and alarms can be selected out of the following monitor items.
 - Cycle time
 - Injection time
 - Metering time
 - Cushion position
 - Holding pressure end position
 - Injection pressure
 - Holding pressure transfer pressure
 - Screw back pressure
 - Metering end position
 - Injection start position
 - Holding pressure transfer position
 - Mold open time
 - Mold close time
 - Metering torque
 - Holding pressure transfer speed
 - Mold inner pressure <option>
- Indicates inspection times and items.

Options list

Item	
Injection unit	Long nozzle
	Various shut-off nozzles (Note 1)
	KC nozzle (Injection unit 300H)
	M7 screw (High plasticization type) (Note 2)
	HP screw (High dispersion type) (Note 2)
	LSP-2 screw (abrasion-resistant type) (Injection unit 300H)
	Chrome-plated screw (Injection units up to 180H)
	One set of screws and barrels for molding optical products
	Special screw (Note 3)
	HT screw head
Clamping unit	One set of screws and barrels for high temperature molding of super engineered plastics
	Barrel insulation cover
	Barrel blower cooling unit
	Hopper (Option for all the region)
	Hopper swiveling device
	Ultra speed injection (Excl. injection units 110H, 180H and 300H) (Note 4)
	High-speed injection (Excl. injection units 110H and 180H) (Note 5)
	High holding pressure molding (for long-time holding pressure molding) (Note 6)
	Vented barrel
	Daylight extension
Others	Thermal insulation plate for platens (Note 7)
	Various locating rings
	Air jet
	Core pull devices (Pneumatic type and Hydraulic type) (Note 8)
	Unscrewing motor circuit
	Ejector gate cutting device
	Ejector plate return confirmation circuit
	Valve gate device (Pneumatic type and Hydraulic type) (Note 8)
	Product drop detector (Photoelectric)
	Chute
Rejecting product detecting chute	
Mold setup device	
T-groove plate (Note 7)	
Magnet mold clamper (Note 7)	
Mold clamper	

Item	
Electrical instrumentation and control	Multi-language select (Hangul, Spanish or French)
	Simple centralized monitor system LINK10 (Note 9)
	Centralized control system NET100 (Note 10)
	Heater burnout alarm
	Mold temperature display (with mold temperature upper/lower limit alarm)
	Mold temperature control device (with mold temperature upper/lower limit alarm)
	Printer (with a printer cable)
	Cooling water open circuit device
	Cooling water failure warning
	Leveling pad for installation
Other	Rotary warning light
	Export specification (Note 11)
	Designated color (Note 12)

(Note)

- A spring type SVN shutoff nozzle, a pneumatic shut-off nozzle and a hydraulic shut-off nozzle can be mounted. For the hydraulic type, a separate hydraulic unit is needed. For injection units 180H or smaller, a pneumatic shut-off device is provided as a standard option. Regarding the hydraulic shut-off device, discussion is needed separately.
- Regarding the M7 screw and the HP screw for the injection units 15H and 30H, discussion is needed separately.
- Regarding special screws, contact us separately.
- The ultra-speed injection specification applies to the injection units 15H, 30H and 60H.
- The high-speed injection specification applies to the injection units 15H, 30H, 60H and 300H. The injection speed differs depending on injection unit.
- The motor is prevented from being overloaded in a long holding time and high holding pressure molding condition.
- When applied, extended nozzle is required. Note that the usable mold thickness range will change.
- For the hydraulic type, a separate hydraulic unit is needed.
- The LINK10 has actual data collection, molding condition control and remote control functions.
- The NET100 has quality control and production control functions in addition to the functions that the LINK10 has.
- Regarding the export specifications, separate discussion is needed in some cases, depending upon the export destination.
- Designate colors, referring to color samples or Munsell codes.

Utilities

Total Power Capacity

Machine Model		Total Power Capacity (kVA)		
		Standard Injection	High Speed Injection	Ultra Speed Injection
J35AD	15H	3.9	4.3	5.0
	30H	5.8	6.5	7.3
J55AD	15H	4.3	4.7	5.4
	30H	6.2	6.9	7.7
J85AD	30H	6.2	6.9	7.7
	60H	9.1	9.9	11.3
J110AD	60H	9.1	9.9	11.3
	110H	14.1	—	—
J140AD	60H	9.3	10.1	11.5
	110H	14.3	—	—
J180AD	60H	9.7	10.5	11.9
	110H	14.7	—	—
J180AD	180H	20.1	—	—
	110H	16.2	—	—
	180H	19.8	—	—
J180AD	180H	19.8	—	—
	300H	20.1	27.5	—

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

Machine Model	Cooling Water Capacity for Barrel Temperature control (m ³ /h)
15H	0.2
30H	
60H	0.3
110H	
180H	0.4
300H	

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