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JADS™ SERIES

Electric Servo Drive Injection Molding Machine



Model

J30ADS | J50ADS | J80ADS | J100ADS | J130ADS | J180ADS

Specifications for Europe

Made in HIROSHIMA

JSW



ISO 9001
ISO 14001

JQA-QMA13993

JQA-EM6416 (Hiroshima Plant)

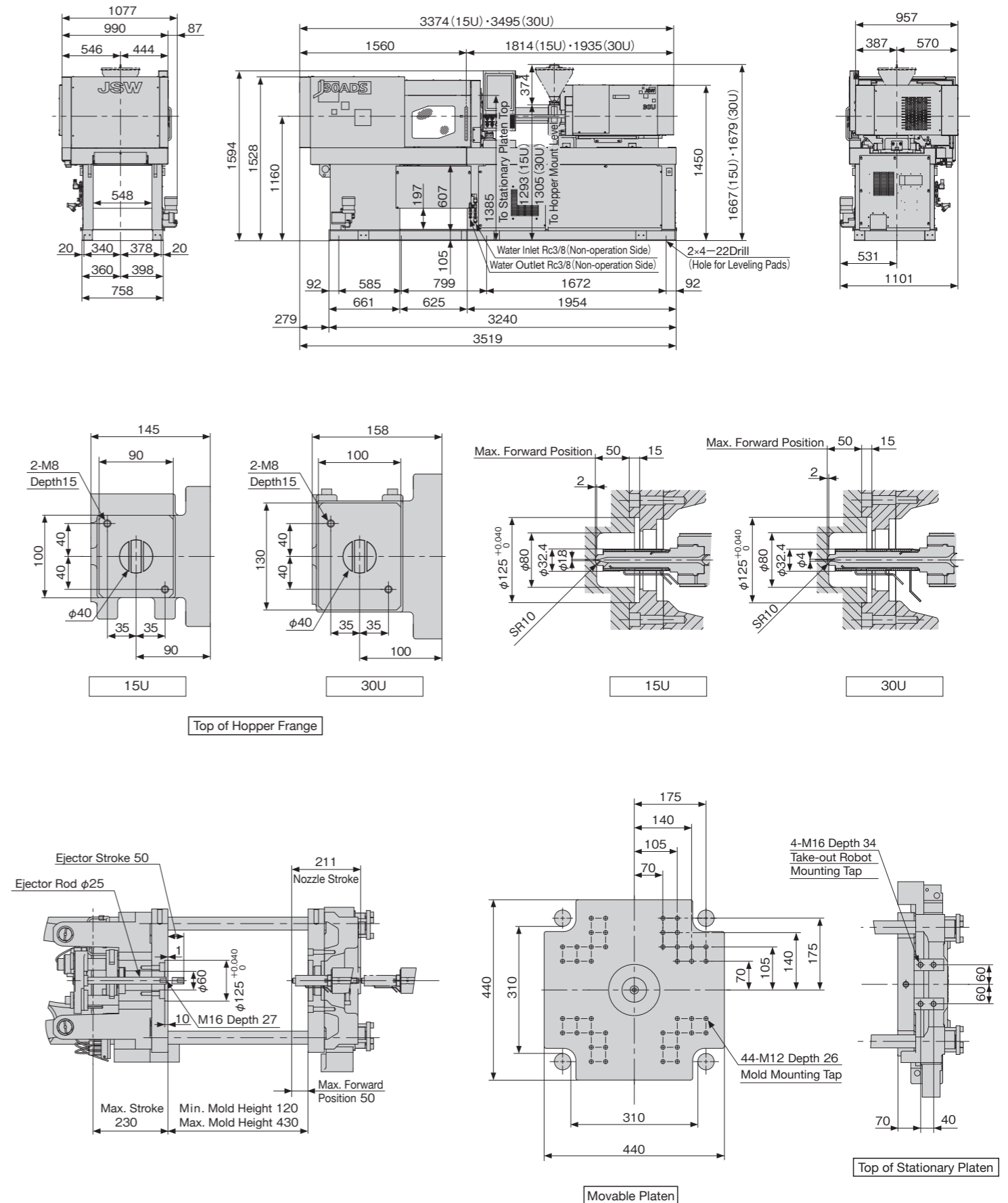
Performance Table

Equipment Dimensions and Mold Related Dimensions

Unit	Item	Model	J30ADS						
			15U			30U			
Injection Unit	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 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/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	500			500		
	Injection Rate		cm ³ /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/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	250			250			
	Injection Rate	cm ³ /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	125						
	Ejector Point		φ60 / 1 Point (Center)						
	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:
- 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.

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

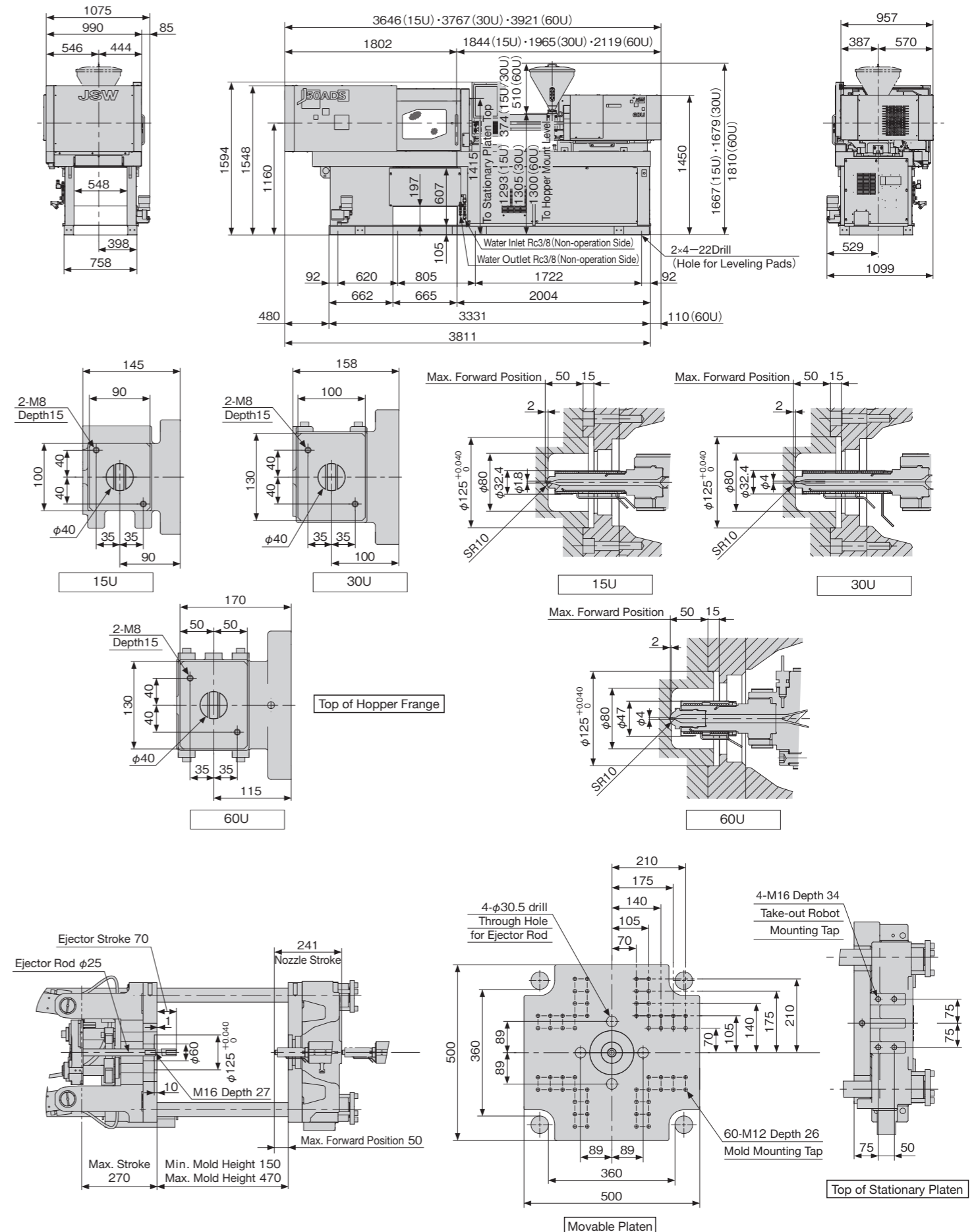


Performance Table

Equipment Dimensions and Mold Related Dimensions

Unit	Model	J50ADS										
		15U			30U			60U				
Injection Unit	Screw Diameter	mm	16	18	20	20	22	25	25	28	32	
	Screw Stroke	mm	60			80			100			
	Theoretical Injection Capacity	cm ³	12	15	18	25	30	39	49	62	80	
	Injection Capacity (GP-PS)	g	11	14	17	23	28	38	45	56	73	
	Standard	Injection Pressure (Max.)	MPa(kgf/cm ²)	276 2810	218 2220	177 1800	270 2750	223 2270	172 1750	270 2750	215 2190	165 1680
		Holding Pressure (Max.)	MPa(kgf/cm ²)	251 2560	198 2010	161 1640	245 2490	203 2070	157 1600	245 2490	195 1980	150 1530
		Injection Speed	mm/s	350			350			350		
		Injection Rate	cm ³ /s	70	89	110	110	133	172	172	216	281
		Plasticizing Capacity (GP-PS)	kg/h	10	14	17	17	21	28	34	46	74
		Screw Speed	min ⁻¹	500			500			400		
	High Speed (Option)	Injection Pressure (Max.)	MPa(kgf/cm ²)	276 2810	218 2220	177 1800	270 2750	223 2270	172 1750	270 2750	215 2190	165 1680
		Holding Pressure (Max.)	MPa(kgf/cm ²)	251 2560	198 2010	161 1640	245 2490	203 2070	157 1600	245 2490	195 1980	150 1530
		Injection Speed	mm/s	500			500			500		
		Injection Rate	cm ³ /s	101	127	157	157	190	245	245	308	402
		Plasticizing Capacity (GP-PS)	kg/h	10	14	17	17	21	28	34	46	74
Screw Speed		min ⁻¹	500			500			400			
Ext. Holding Pressure (Option)	Injection Pressure (Max.)	MPa(kgf/cm ²)	276 2810	218 2220	177 1800	270 2750	223 2270	172 1750	270 2750	215 2190	165 1680	
	Holding Pressure (Max.)	MPa(kgf/cm ²)	251 2560	198 2010	161 1640	245 2490	203 2070	157 1600	245 2490	195 1980	150 1530	
	Injection Speed	mm/s	250			250			250			
	Injection Rate	cm ³ /s	50	64	79	79	95	123	123	154	201	
	Plasticizing Capacity (GP-PS)	kg/h	10	14	17	17	21	28	34	46	74	
	Screw Speed	min ⁻¹	500			500			400			
Clamping Unit	Nozzle Touch Force	kN[tf]	19.6 2.0 Center Touch									
	Nozzle Stroke from Platen	mm	50									
	Type of Nozzle		Open Nozzle				Open Nozzle (Tip Type)					
	Barrel Temperature Control		Barrel 3, Nozzle 2				Barrel 4, Nozzle 2					
	Heater Wattage	kW	3.1			3.9			5.5			
	Mechanism		Double Toggle									
	Clamping Force	kN[tf]	500 51.0									
	Daylight Opening (Max.)	mm	740									
	Opening Stroke (Max.)	mm	270									
	Mold Height	mm	150~470									
Distance Between Tie-bars (H×V)	mm	360×360										
Platen Size (H×V)	mm	500×500										
Locating Ring Diameter	mm	125										
Ejector Point		φ60 / 1 Point (Center)、φ30.5 / 4 Points										
Ejector Force	kN[tf]	20.0 2.0										
Ejector Stroke	mm	70										
General	Machine Weight	t	2.7			3.81×1.10×1.59			2.8			
	Machine Dimensions (L×W×H)	m	3.81×1.10×1.59			3.81×1.10×1.59			3.92×1.10×1.59			

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

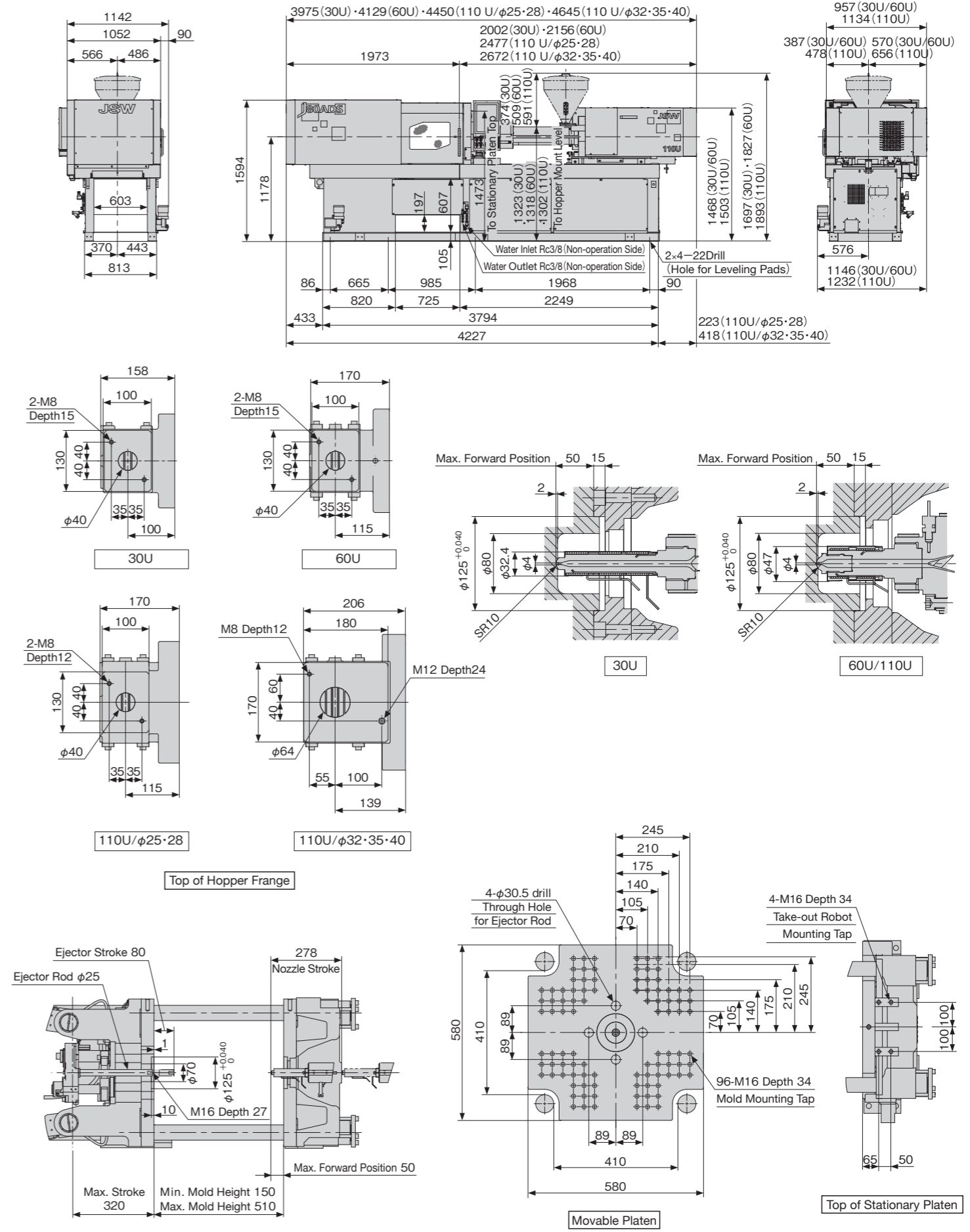


Performance Table

Equipment Dimensions and Mold Related Dimensions

Unit	Model	J80ADS														
		30U			60U			110U								
Injection Unit	Screw Diameter	mm	20	22	25	25	28	32	25	28	32	35	40			
	Screw Stroke	mm	80			100			100			120				
	Theoretical Injection Capacity	cm ³	25	30	39	49	62	80	49	62	97	115	151			
	Injection Capacity (GP-PS)	g	23	28	38	45	56	73	45	56	88	105	137			
	Standard	Injection Pressure (Max.)	MPa/kgf/cm ²	270 2750	223 2270	172 1750	270 2750	215 2190	165 1680	320 3260	300 3060	270 2750	225 2290	172 1750		
		Holding Pressure (Max.)	MPa/kgf/cm ²	245 2490	203 2070	157 1600	245 2490	195 1980	150 1530	290 2960	275 2800	245 2490	205 2090	157 1600		
		Injection Speed	mm/s	350			350			350						
		Injection Rate	cm ³ /s	110	133	172	172	216	281	172	216	281	337	440		
		Plasticizing Capacity (GP-PS)	kg/h	17	21	28	34	46	74	34	46	74	92	123		
		Screw Speed	min ⁻¹	500			400			400						
	High Speed (Option)	Injection Pressure (Max.)	MPa/kgf/cm ²	270 2750	223 2270	172 1750	270 2750	215 2190	165 1680	320 3260	300 3060	270 2750	225 2290	172 1750		
		Holding Pressure (Max.)	MPa/kgf/cm ²	245 2490	203 2070	157 1600	245 2490	195 1980	150 1530	290 2960	275 2800	245 2490	205 2090	157 1600		
		Injection Speed	mm/s	500			500			500						
		Injection Rate	cm ³ /s	157	190	245	245	308	402	245	308	402	481	628		
Plasticizing Capacity (GP-PS)		kg/h	17	21	28	34	46	74	34	46	74	92	123			
Screw Speed		min ⁻¹	500			400			400							
Ext. Holding Pressure (Option)	Injection Pressure (Max.)	MPa/kgf/cm ²	270 2750	223 2270	172 1750	270 2750	215 2190	165 1680	320 3260	300 3060	270 2750	225 2290	172 1750			
	Holding Pressure (Max.)	MPa/kgf/cm ²	245 2490	203 2070	157 1600	245 2490	195 1980	150 1530	290 2960	275 2800	245 2490	205 2090	157 1600			
	Injection Speed	mm/s	250			250			250							
	Injection Rate	cm ³ /s	79	95	123	123	154	201	123	154	201	241	314			
	Plasticizing Capacity (GP-PS)	kg/h	17	21	28	34	46	74	34	46	74	92	123			
	Screw Speed	min ⁻¹	500			400			400							
Clamping Unit	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			Open Nozzle (Tip Type)										
	Barrel Temperature Control		Barrel 3, Nozzle 2			Barrel 4, Nozzle 2										
	Heater Wattage	kW	3.9			5.5			6.7		9.2					
	Mechanism		Double Toggle													
	Clamping Force	kN tf	800 81.6													
	Daylight Opening (Max.)	mm	830													
	Opening Stroke (Max.)	mm	320													
	Mold Height	mm	150~510													
General	Distance Between Tie-bars (H×V)	mm	410×410													
	Platen Size (H×V)	mm	580×580													
	Locating Ring Diameter	mm	125													
	Ejector Point		φ70 / 1 Point (Center), φ30.5 / 4 Points													
	Ejector Force	kN tf	32.4 3.3													
	Ejector Stroke	mm	80													
	Machine Weight	t	3.3			3.4			3.9							
	Machine Dimensions (L×W×H)	m	4.23×1.15×1.59			4.23×1.15×1.59			4.45×1.23×1.59		4.65×1.23×1.59					

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:
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 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

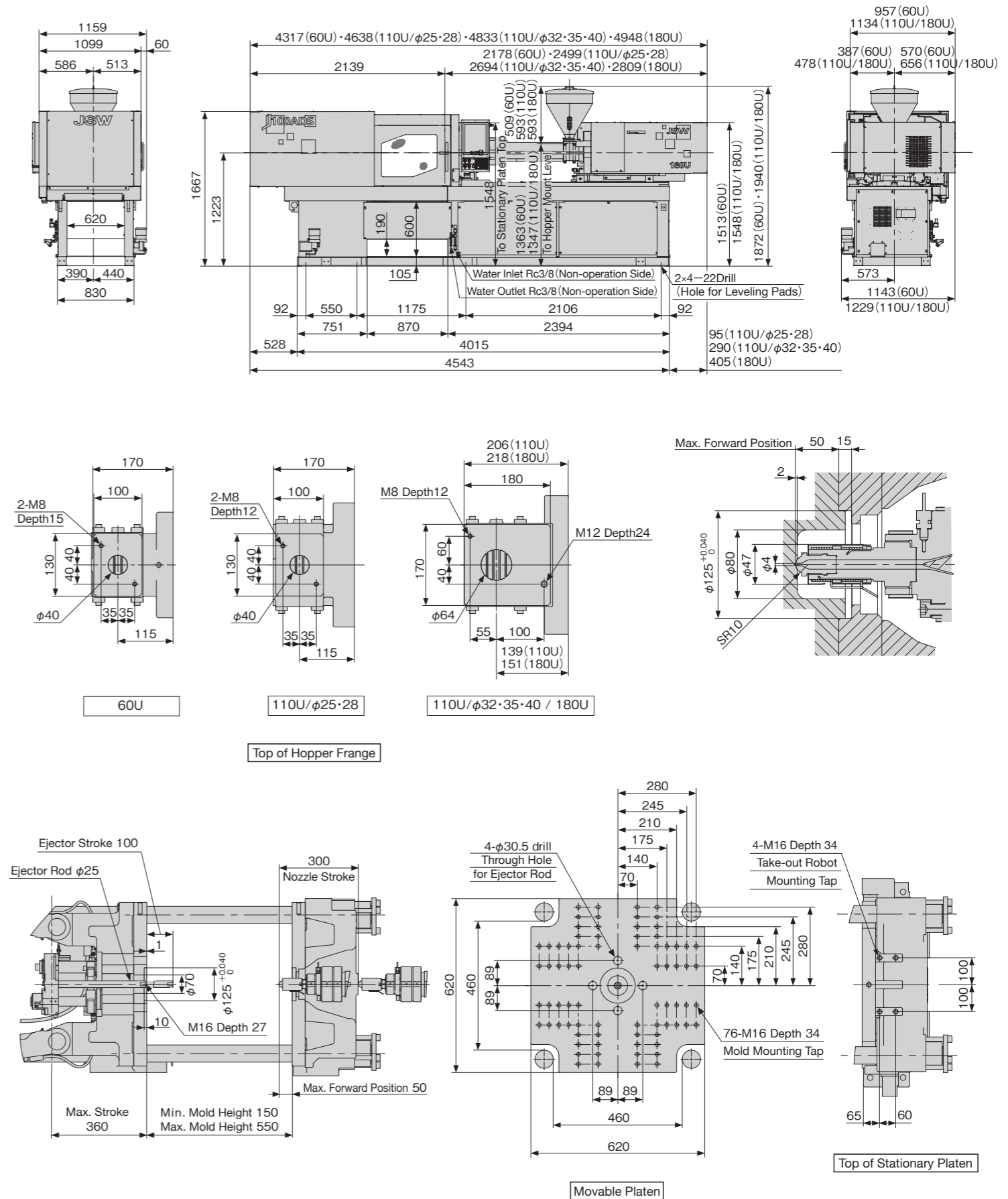


Performance Table

Equipment Dimensions and Mold Related Dimensions

Unit	Item	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	cm ³	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/cm ²	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/cm ²	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	cm ³ /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/cm ²	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/cm ²	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		cm ³ /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/cm ²	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/cm ²	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	cm ³ /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			
Clamping Unit	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 (Tip Type)												
	Barrel Temperature Control		Barrel 4, Nozzle 2												
	Heater Wattage	kW	5.5			6.7			9.2			10.2			
	Mechanism		Double Toggle												
	Clamping Force	kN tf	1000 102												
	Daylight Opening (Max.)	mm	910												
	Opening Stroke (Max.)	mm	360												
	Mold Height	mm	150~550												
General	Distance Between Tie-bars (H×V)	mm	460×460												
	Platen Size (H×V)	mm	620×620												
	Locating Ring Diameter	mm	125												
	Ejector Point		φ70 / 1 Point (Center), φ30.5 / 4 Points												
	Ejector Force	kN tf	32.4 3.3												
	Ejector Stroke	mm	100												
	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:
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 - 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.
 - High speed injection and Ext. holding pressure injection are optional.
 - 1MPa=10.2 kgf/cm², 1kN=0.102tf

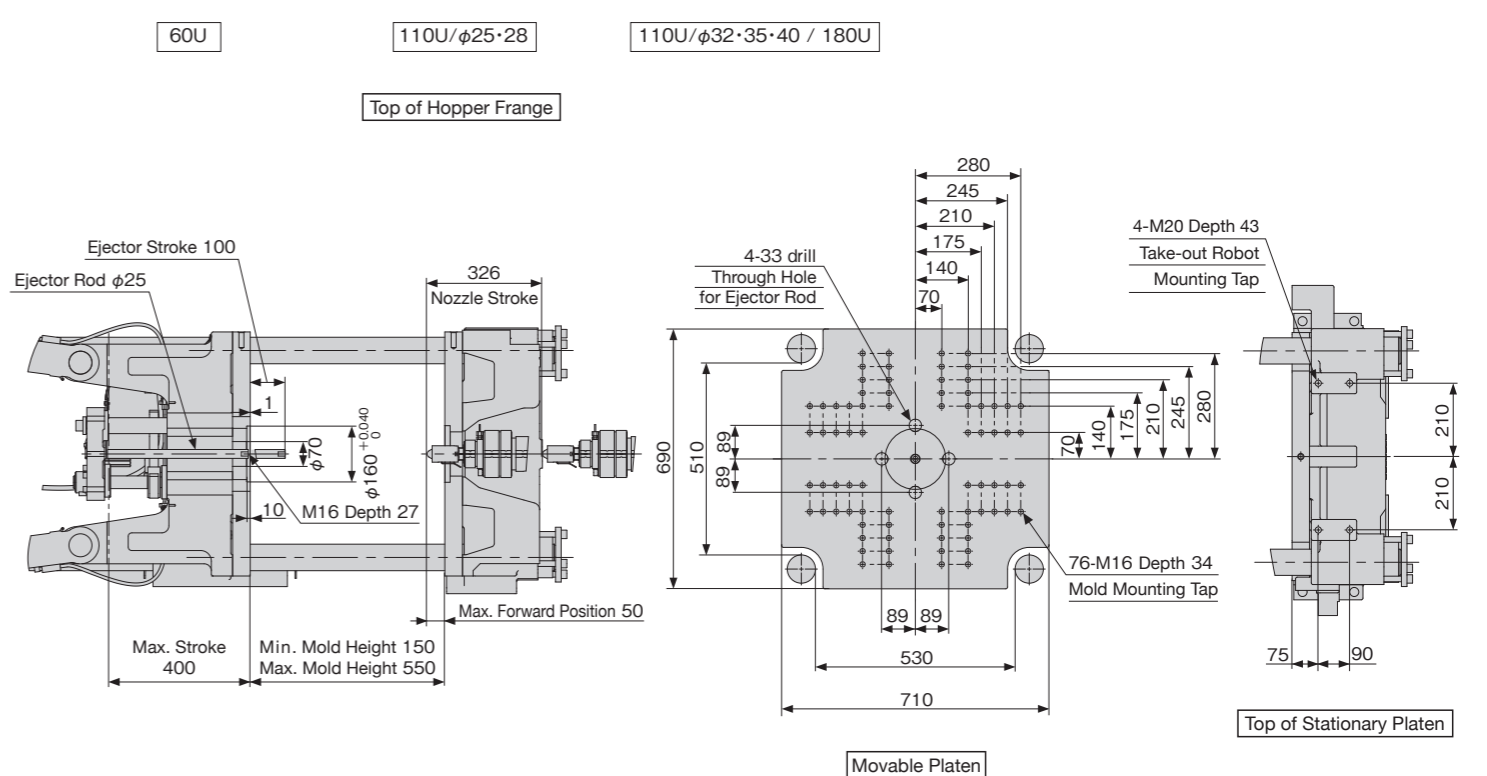
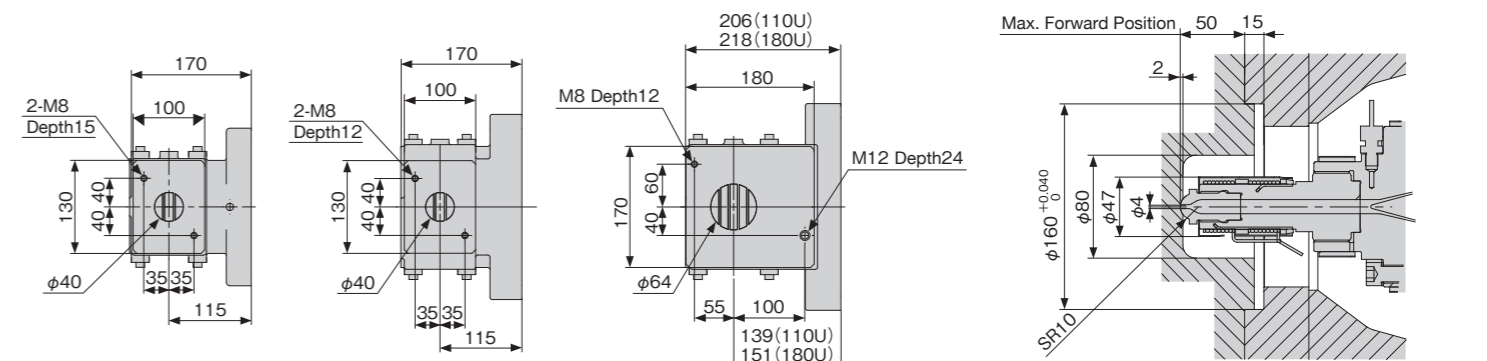
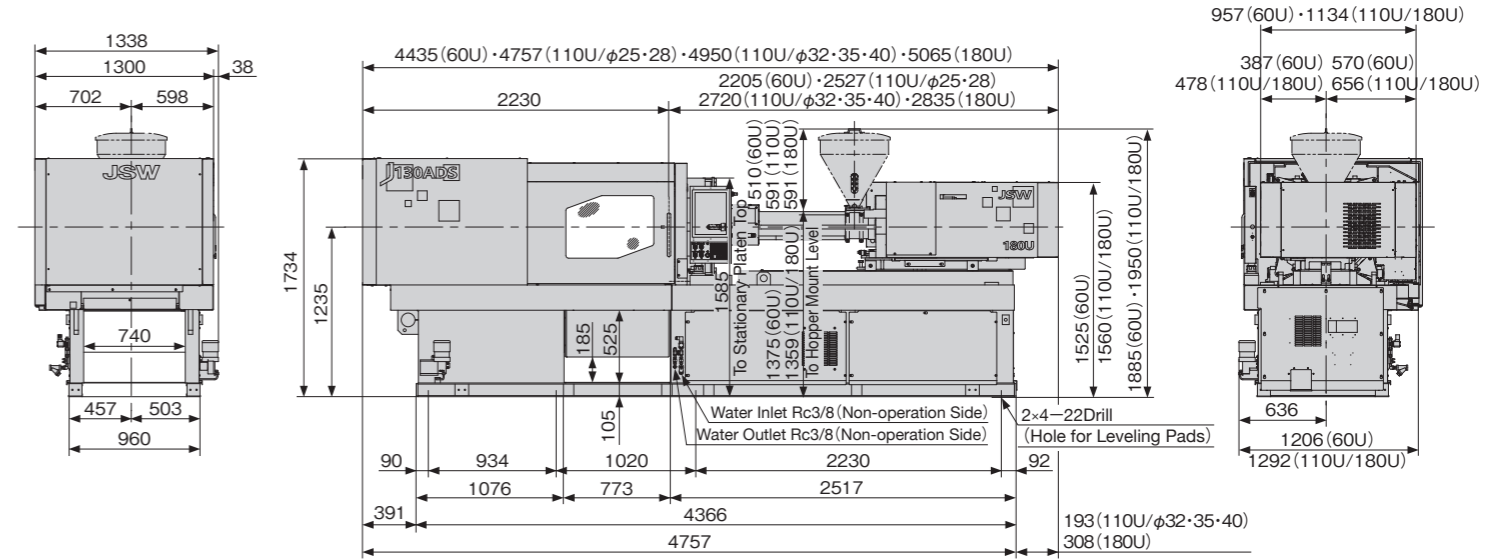


Performance Table

Equipment Dimensions and Mold Related Dimensions

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	cm ³			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/cm ²			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/cm ²			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	cm ³ /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/cm ²			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/cm ²			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	cm ³ /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/cm ²			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/cm ²			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	cm ³ /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					
Clamping Unit	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 (Tip Type)														
	Barrel Temperature Control	Barrel 4, Nozzle 2														
	Heater Wattage	kW			5.5			6.7			9.2			10.2		
	Mechanism	Double Toggle														
	Clamping Force	kN tf			1300 133											
	Daylight Opening (Max.)	mm			950											
	Opening Stroke (Max.)	mm			400											
	Mold Height	mm			150~550											
General	Distance Between Tie-bars (H×V)	mm			530×510											
	Platen Size (H×V)	mm			710×690											
	Locating Ring Diameter	mm			160											
	Ejector Point	φ70 / 1 Point (Center), φ33 / 4 Points														
	Ejector Force	kN tf			32.4 3.3											
	Ejector Stroke	mm			100											
	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:
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 Ext. holding pressure injection are optional.
 5. 1MPa=10.2 kgf/cm²; 1kN=0.102tf



Performance Table

Equipment Dimensions and Mold Related Dimensions

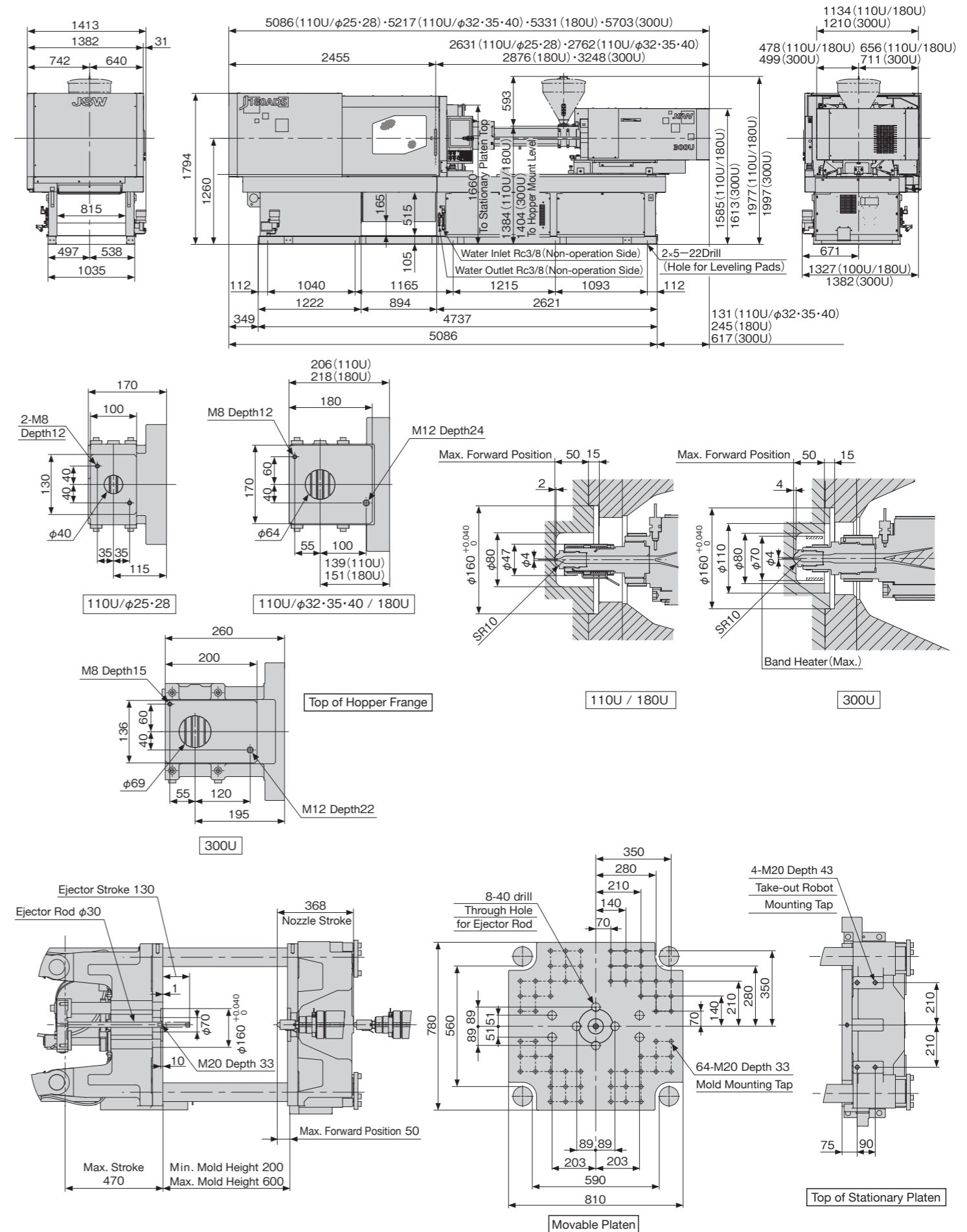
Unit	Item	Model	J180ADS											
			110U				180U				300U			
Injection Unit	Screw Diameter	mm	25	28	32	35	40	35	40	45	40	46	51	
	Screw Stroke	mm	100				120				180			
	Theoretical Injection Capacity	cm ³	49	62	97	115	151	135	176	223	226	299	368	
	Injection Capacity (GP-PS)	g	45	56	88	105	137	123	160	203	206	273	335	
	Standard	Injection Pressure (Max.)	MPa [kgf/cm ²]	320 [3260]	300 [3060]	270 [2750]	225 [2290]	172 [1750]	260 [2650]	199 [2020]	157 [1600]	250 [2550]	189 [1920]	154 [1570]
		Holding Pressure (Max.)	MPa [kgf/cm ²]	290 [2960]	275 [2800]	245 [2490]	205 [2090]	157 [1600]	236 [2400]	181 [1840]	143 [1450]	227 [2310]	172 [1750]	140 [1420]
		Injection Speed	mm/s	350				350				240		
		Injection Rate	cm ³ /s	172	216	281	337	440	337	440	557	301	399	490
		Plasticizing Capacity (GP-PS)	kg/h	34	46	74	92	123	92	127	166	130	184	232
	High Speed (Option)	Screw Speed	min ⁻¹	400				400				400		
		Injection Pressure (Max.)	MPa [kgf/cm ²]	320 [3260]	300 [3060]	270 [2750]	225 [2290]	172 [1750]	260 [2650]	199 [2020]	157 [1600]	250 [2550]	189 [1920]	154 [1570]
		Holding Pressure (Max.)	MPa [kgf/cm ²]	290 [2960]	275 [2800]	245 [2490]	205 [2090]	157 [1600]	236 [2400]	181 [1840]	143 [1450]	227 [2310]	172 [1750]	140 [1420]
		Injection Speed	mm/s	500				500				330		
		Injection Rate	cm ³ /s	245	308	402	481	628	481	628	795	415	548	674
	Ext. Holding Pressure (Option)	Plasticizing Capacity (GP-PS)	kg/h	34	46	74	92	123	92	127	166	130	184	232
Screw Speed		min ⁻¹	400				400				400			
Injection Pressure (Max.)		MPa [kgf/cm ²]	320 [3260]	300 [3060]	270 [2750]	225 [2290]	172 [1750]	260 [2650]	199 [2020]	157 [1600]	250 [2550]	189 [1920]	154 [1570]	
Holding Pressure (Max.)		MPa [kgf/cm ²]	290 [2960]	275 [2800]	245 [2490]	205 [2090]	157 [1600]	236 [2400]	181 [1840]	143 [1450]	227 [2310]	172 [1750]	140 [1420]	
Injection Speed		mm/s	250				200				160			
Clamping Unit	Injection Rate	cm ³ /s	123	154	201	241	314	192	251	318	201	266	327	
	Plasticizing Capacity (GP-PS)	kg/h	34	46	74	92	123	92	127	166	130	184	232	
	Screw Speed	min ⁻¹	400				400				400			
	Nozzle Touch Force	kN [tf]	24.5 [2.5] Center Touch											
	Nozzle Stroke from Platen	mm	50											
	Type of Nozzle		Open Nozzle (Tip Type)											
	Barrel Temperature Control		Barrel 4, Nozzle 2						Barrel 4, Nozzle 1					
	Heater Wattage	kW	6.7			9.2			10.2			13		
	Mechanism		Double Toggle											
	Clamping Force	kN [tf]	1800 [184]											
Daylight Opening (Max.)	mm	1070												
Opening Stroke (Max.)	mm	470												
Mold Height	mm	200~600												
Distance Between Tie-bars (H×V)	mm	590×560												
Platen Size (H×V)	mm	810×780												
Locating Ring Diameter	mm	160												
Ejector Point		φ70 / 1 Point (Center)、φ40 / 8 Points												
Ejector Force	kN [tf]	34.3 [3.5]												
Ejector Stroke	mm	130												
General	Machine Weight	t	7.5						7.7					
	Machine Dimensions (L×W×H)	m	5.09×1.41×1.79			5.22×1.41×1.79			5.33×1.41×1.79			5.70×1.41×1.79		

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.

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



Standard Equipment List

Item		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 Transfer Select		
	Holding Pressure Control Select		
	Pull-back Select		
	Barrel 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		
	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 (Electrical)			
Robot Mounting Holes			
Grease-free Toggle Bushing			
Auto Grease Lubrication			
Servo Motor With Brake (Mold O/C·EJ)			
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 Capture 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	
		Oscilloscope Waveform Monitor	
		Energy Consumption and Regeneration Monitor	
		Barrel Temperature Monitor	
		Injection Pressure Monitor (IPM)	
Statistical Graph			
Production Monitor			
Cumulative Operating Hour Display			
Cycle Monitor			
Molding Condition Upper/Lower Limit Monitor		Note 6	
Inspection and Maintenance Guide		Note 7	
Heater System Alarm			
Injection Pressure Overshoot Alarm			
Servo Fault Alarm			
Grease Lubrication Alarm			
Fault Alarm Buzzer			
Alarm History			
Set Value History			
Others		Safety Compliance to ISO20430, ISO60204-1	
		Cooling Water Closed Circuit for Feed Throat	
		Accessories (Maintenance Tools and Ejector Rods, etc.)	

- 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.
① Cycle time ② Injection time ③ Metering time ④ Max Injection pressure ⑤ Cushion position
⑥ Holding pressure end position ⑦ Holding pressure transfer pressure ⑧ Screw back pressure
⑨ Metering torque ⑩ Holding pressure transfer speed ⑪ Mold close time ⑫ Mold open time
⑬ Clamping force ⑭ Shift stroke (HAVC) ⑮ End speed (HAVC)
- Note 7. Maintenance monitor based on molding condition.

Options List

Item		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.	
	Extended Holding Pressure Time	Note. 3
Long-time Plasticizing Spec.	Note. 4	
Clamping unit	Mold Platen Heat Insulation Board (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		
Clamping Safety Device (Mechanical)		
Electrical Installation 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)	
	Mold Cooling Water Circuit (Installed on bed) Max. 60 °C	
	Cooling Water Alarm	
	Leveling Pad for Installation	
	Machine Movement Prevention Device (Anchor Bolts)	
Other	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.

Utilities

Total Power Capacity

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

- 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.

Cooling Water Capacity for Barrel Temperature Control

Machine Model	Cooling Water Capacity for Barrel Temperature Control (m ³ /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 temperature.