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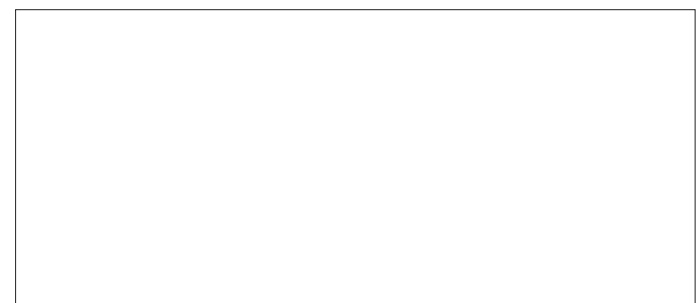
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JADS SERIES

Electric Servo Drive Injection Molding Machine



Model
J30ADS | J50ADS | J80ADS | J100ADS | J130ADS | J180ADS

Specifications
- In U.S. Unit -
Made in HIROSHIMA



Performance Table

Equipment Dimensions and Mold Related Dimensions

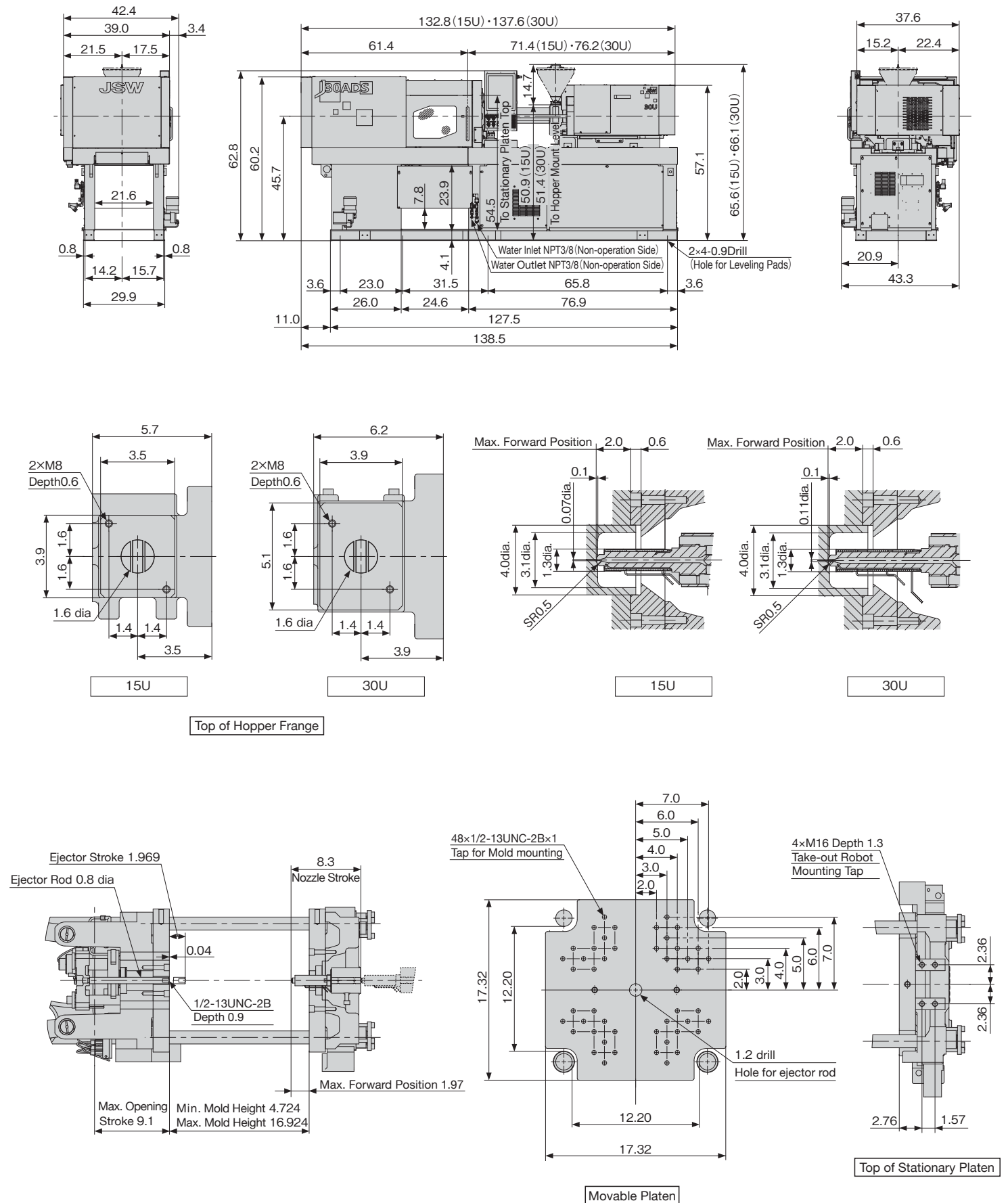
Unit	Item	Model	J30ADS						
			15U			30U			
Injection Unit	Screw Diameter	in	0.63	0.71	0.79	0.79	0.87	0.98	
	Screw Stroke	in	2.36			3.15			
	Theoretical Injection Capacity	in ³	0.73	0.92	1.10	1.53	1.83	2.38	
	Injection Capacity (GP-PS)	oz	0.39	0.49	0.60	0.81	0.99	1.34	
	Standard	Injection Pressure (Max.)	psi	40,030	31,618	25,672	39,160	32,343	24,946
		Holding Pressure (Max.)	psi	36,404	28,717	23,351	35,534	29,443	22,771
		Injection Speed	in/s	13.78			13.78		
		Injection Rate	in ³ /s	4.3	5.4	6.7	6.7	8.1	10.5
		Plasticizing Capacity (GP-PS)	oz/s	0.098	0.137	0.167	0.167	0.206	0.274
		Screw Speed	rpm	500			500		
		High Speed (Option)	Injection Pressure (Max.)	psi	40,030	31,618	25,672	39,160	32,343
	Holding Pressure (Max.)		psi	36,404	28,717	23,351	35,534	29,443	22,771
	Injection Speed		in/s	19.69			19.69		
	Injection Rate		in ³ /s	6.2	7.8	9.6	9.6	11.6	15.0
	Plasticizing Capacity (GP-PS)		oz/s	0.098	0.137	0.167	0.167	0.206	0.274
	Screw Speed		rpm	500			500		
	Ext. Holding Pressure (Option)		Injection Pressure (Max.)	psi	40,030	31,618	25,672	39,160	32,343
		Holding Pressure (Max.)	psi	36,404	28,717	23,351	35,534	29,443	22,771
		Injection Speed	in/s	9.84			9.84		
		Injection Rate	in ³ /s	3.1	3.9	4.8	4.8	5.8	7.5
		Plasticizing Capacity (GP-PS)	oz/s	0.098	0.137	0.167	0.167	0.206	0.274
		Screw Speed	rpm	500			500		
		Nozzle Touch Force	U.S.ton	2.2 Center Touch					
Nozzle Stroke from Platen	in	1.97							
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	U.S.ton	33.7						
	Daylight Opening (Max.)	in	25.98						
	Opening Stroke (Max.)	in	9.06						
	Mold Height	in	4.724~16.929						
	Distance Between Tie-bars (H×V)	in	12.20×12.20						
	Platen Size (H×V)	in	17.32×17.32						
	Locating Ring Diameter	in	4.0						
	Ejector Point		1 points						
	Ejector Force	U.S.ton	1.11						
	Ejector Stroke	in	1.969						
General	Machine Weight	U.S.ton	2.53						
	Machine Dimensions (L×W×H)	ft	11.55×3.61×5.22			11.55×3.61×5.22			

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



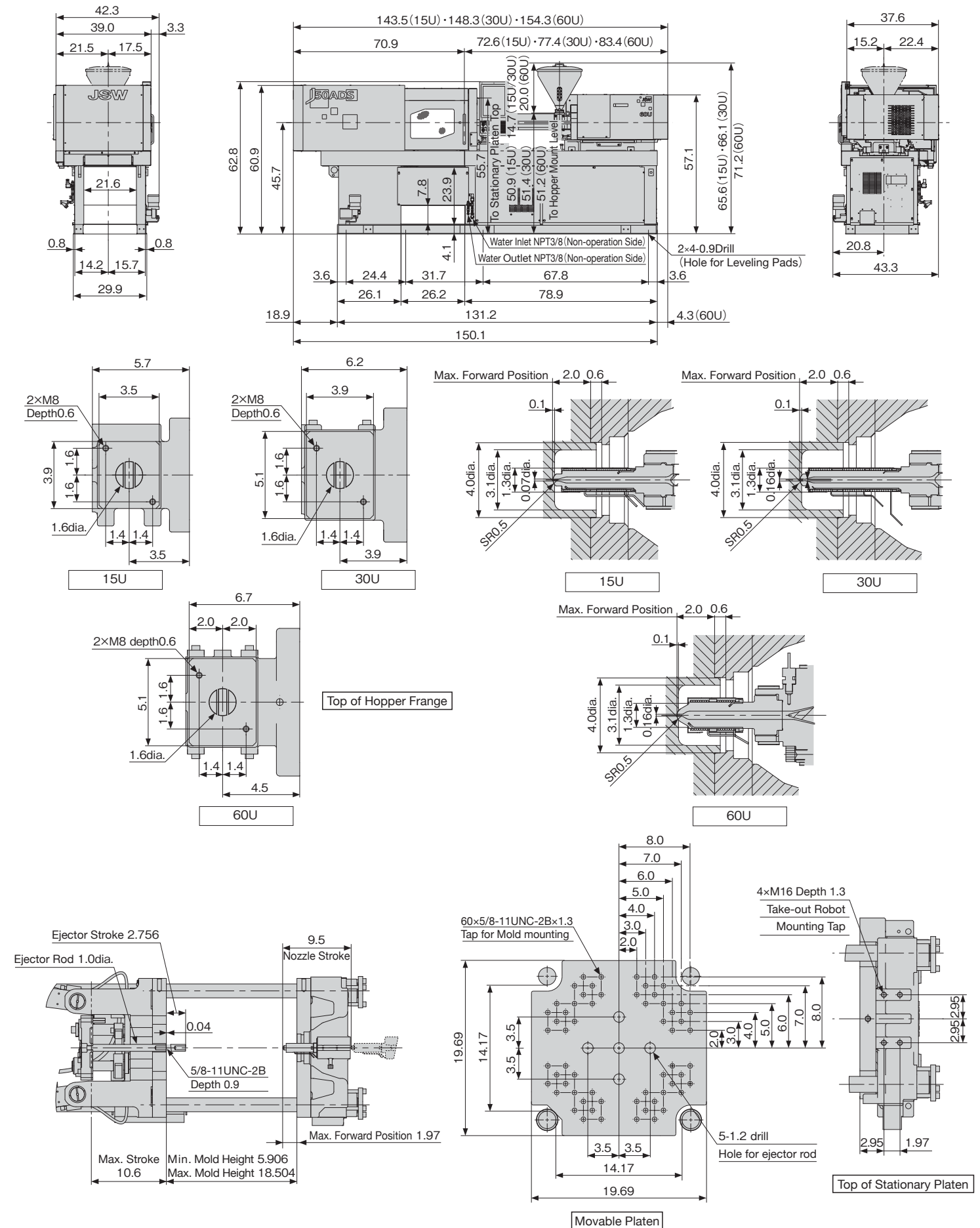
Performance Table

Equipment Dimensions and Mold Related Dimensions

Unit	Item	Model	J50ADS									
			15U		30U		60U					
Injection Unit	Screw Diameter	in	0.63	0.71	0.79	0.79	0.87	0.98	0.98	1.10	1.26	
	Screw Stroke	in	2.36		3.15		3.94					
	Theoretical Injection Capacity	in ³	0.73	0.92	1.10	1.53	1.83	2.38	2.99	3.78	4.88	
	Injection Capacity (GP-PS)	oz	0.39	0.49	0.60	0.81	0.99	1.34	1.59	1.98	2.58	
	Standard	Injection Pressure (Max.)	psi	40,030	31,618	25,672	39,160	32,343	24,946	39,160	31,183	23,931
		Holding Pressure (Max.)	psi	36,404	28,717	23,351	35,534	29,443	22,771	35,534	28,282	21,756
		Injection Speed	in/s	13.78		13.78		13.78				
		Injection Rate	in ³ /s	4.3	5.4	6.7	6.7	8.1	10.5	10.5	13.2	17.1
		Plasticizing Capacity (GP-PS)	oz/s	0.098	0.137	0.167	0.167	0.206	0.274	0.333	0.451	0.725
		Screw Speed	rpm	500		500		400				
		High Speed (Option)	Injection Pressure (Max.)	psi	40,030	31,618	25,672	39,160	32,343	24,946	39,160	31,183
	Holding Pressure (Max.)		psi	36,404	28,717	23,351	35,534	29,443	22,771	35,534	28,282	21,756
	Injection Speed		in/s	19.69		19.69		19.69				
	Injection Rate		in ³ /s	6.2	7.8	9.6	9.6	11.6	15.0	15.0	18.8	24.5
	Plasticizing Capacity (GP-PS)		oz/s	0.098	0.137	0.167	0.167	0.206	0.274	0.333	0.451	0.725
Screw Speed	rpm		500		500		400					
Ext. Holding Pressure (Option)	Injection Pressure (Max.)		psi	40,030	31,618	25,672	39,160	32,343	24,946	39,160	31,183	23,931
	Holding Pressure (Max.)	psi	36,404	28,717	23,351	35,534	29,443	22,771	35,534	28,282	21,756	
	Injection Speed	in/s	9.84		9.84		9.84					
	Injection Rate	in ³ /s	3.1	3.9	4.8	4.8	5.8	7.5	7.5	9.4	12.3	
	Plasticizing Capacity (GP-PS)	oz/s	0.098	0.137	0.167	0.167	0.206	0.274	0.333	0.451	0.725	
	Screw Speed	rpm	500		500		400					
	Nozzle Touch Force	U.S.ton	2.2 Center Touch									
Nozzle Stroke from Platen	in	1.97										
Type of Nozzle		Open Nozzle										
Barrel Temperature Control		Barrel 3, Nozzle 2				Barrel 4, Nozzle 2						
Heater Wattage	kW	3.1		3.9		5.5						
Clamping Unit	Mechanism		Double Toggle									
	Clamping Force	U.S.ton	56.2									
	Daylight Opening (Max.)	in	29.13									
	Opening Stroke (Max.)	in	10.63									
	Mold Height	in	5.906~18.504									
	Distance Between Tie-bars (H×V)	in	14.17×14.17									
	Platen Size (H×V)	in	19.69×19.69									
	Locating Ring Diameter	in	4.0									
	Ejector Point		5 points									
	Ejector Force	U.S.ton	2.25									
Ejector Stroke	in	2.756										
General	Machine Weight	U.S.ton	2.97				3.08					
	Machine Dimensions (L×W×H)	ft	12.50×3.61×5.22				12.86×3.61×5.22					

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

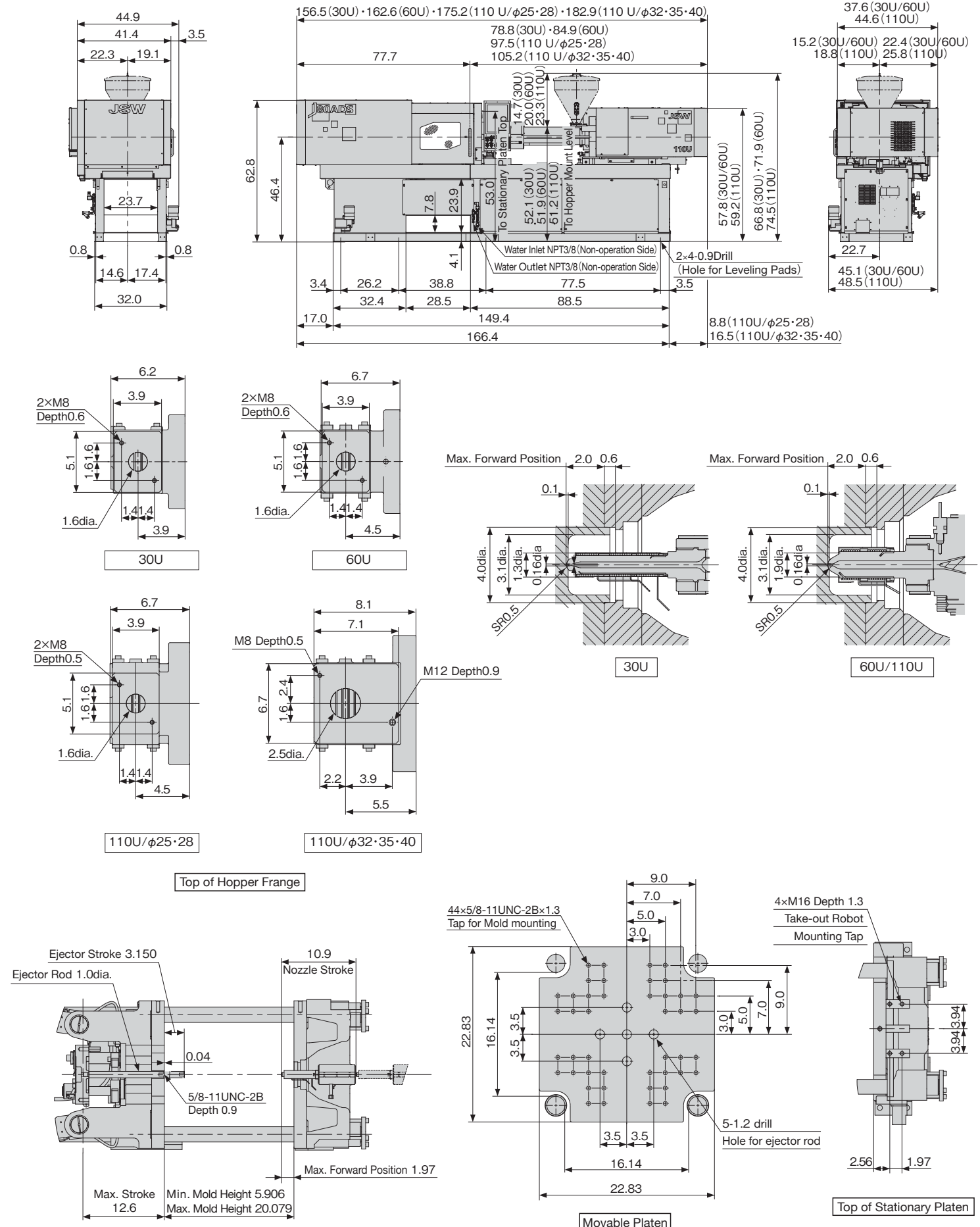
Unit	Item	Model	J80ADS										
			30U			60U			110U				
Injection Unit	Screw Diameter	in	0.79	0.87	0.98	0.98	1.10	1.26	0.98	1.10	1.26	1.57	
	Screw Stroke	in	3.15			3.94			3.94				
	Theoretical Injection Capacity	in ³	1.53	1.83	2.38	2.99	3.78	4.88	2.99	3.78	5.92	9.21	
	Injection Capacity (GP-PS)	oz	0.81	0.99	1.34	1.59	1.98	2.58	1.59	1.98	3.10	4.83	
	Standard	Injection Pressure (Max.)	psi	39,160	32,343	24,946	39,160	31,183	23,931	46,412	43,511	39,160	24,946
		Holding Pressure (Max.)	psi	35,534	29,443	22,771	35,534	28,282	21,756	42,061	39,885	35,534	22,742
		Injection Speed	in/s	13.78			13.78			13.78			
	High Speed (Option)	Injection Rate	in ³ /s	6.7	8.1	10.5	10.5	13.2	17.1	10.5	13.2	17.1	26.9
		Plasticizing Capacity (GP-PS)	oz/s	0.167	0.206	0.274	0.333	0.451	0.725	0.333	0.451	0.725	1.205
		Screw Speed	rpm	500			400			400			
	Ext. Holding Pressure (Option)	Injection Pressure (Max.)	psi	39,160	32,343	24,946	39,160	31,183	23,931	46,412	43,511	39,160	24,946
		Holding Pressure (Max.)	psi	35,534	29,443	22,771	35,534	28,282	21,756	42,061	39,885	35,534	22,742
		Injection Speed	in/s	19.69			19.69			Not Applicable			
	Clamping Unit	Injection Rate	in ³ /s	9.6	11.6	15.0	15.0	18.8	24.5				
		Plasticizing Capacity (GP-PS)	oz/s	0.167	0.206	0.274	0.333	0.451	0.725				
Screw Speed		rpm	500			400							
General	Injection Pressure (Max.)	psi	39,160	32,343	24,946	39,160	31,183	23,931	46,412	43,511	39,160	24,946	
	Holding Pressure (Max.)	psi	35,534	29,443	22,771	35,534	28,282	21,756	42,061	39,885	35,534	22,742	
	Injection Speed	in/s	9.84			9.84			9.84				
	Injection Rate	in ³ /s	4.8	5.8	7.5	7.5	9.4	12.3	7.5	9.4	12.3	19.2	
	Plasticizing Capacity (GP-PS)	oz/s	0.167	0.206	0.274	0.333	0.451	0.725	0.333	0.451	0.725	1.205	
	Screw Speed	rpm	500			400			400				
	Nozzle Touch Force	U.S.ton	2.2 Center Touch					2.8 Center Touch					
	Nozzle Stroke from Platen	in	1.97										
	Type of Nozzle		Open Nozzle										
	Barrel Temperature Control		Barrel 3, Nozzle 2				Barrel 4, Nozzle 2						
Heater Wattage	kW	3.9			5.5			6.7					
Mechanism		Double Toggle											
Clamping Force	U.S.ton	89.9											
Daylight Opening (Max.)	in	32.68											
Opening Stroke (Max.)	in	12.60											
Mold Height	in	5.906~20.079											
Distance Between Tie-bars (HXV)	in	16.14×16.14											
Platen Size (H×V)	in	22.83×22.83											
Locating Ring Diameter	in	4.0											
Ejector Point		5 points											
Ejector Force	U.S.ton	3.64											
Ejector Stroke	in	3.150											
Machine Weight	U.S.ton	3.64			3.75			4.30					
Machine Dimensions (L×W×H)	ft	13.88×3.76×5.22			13.88×3.76×5.22			14.60×4.04×5.22					

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.
- 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

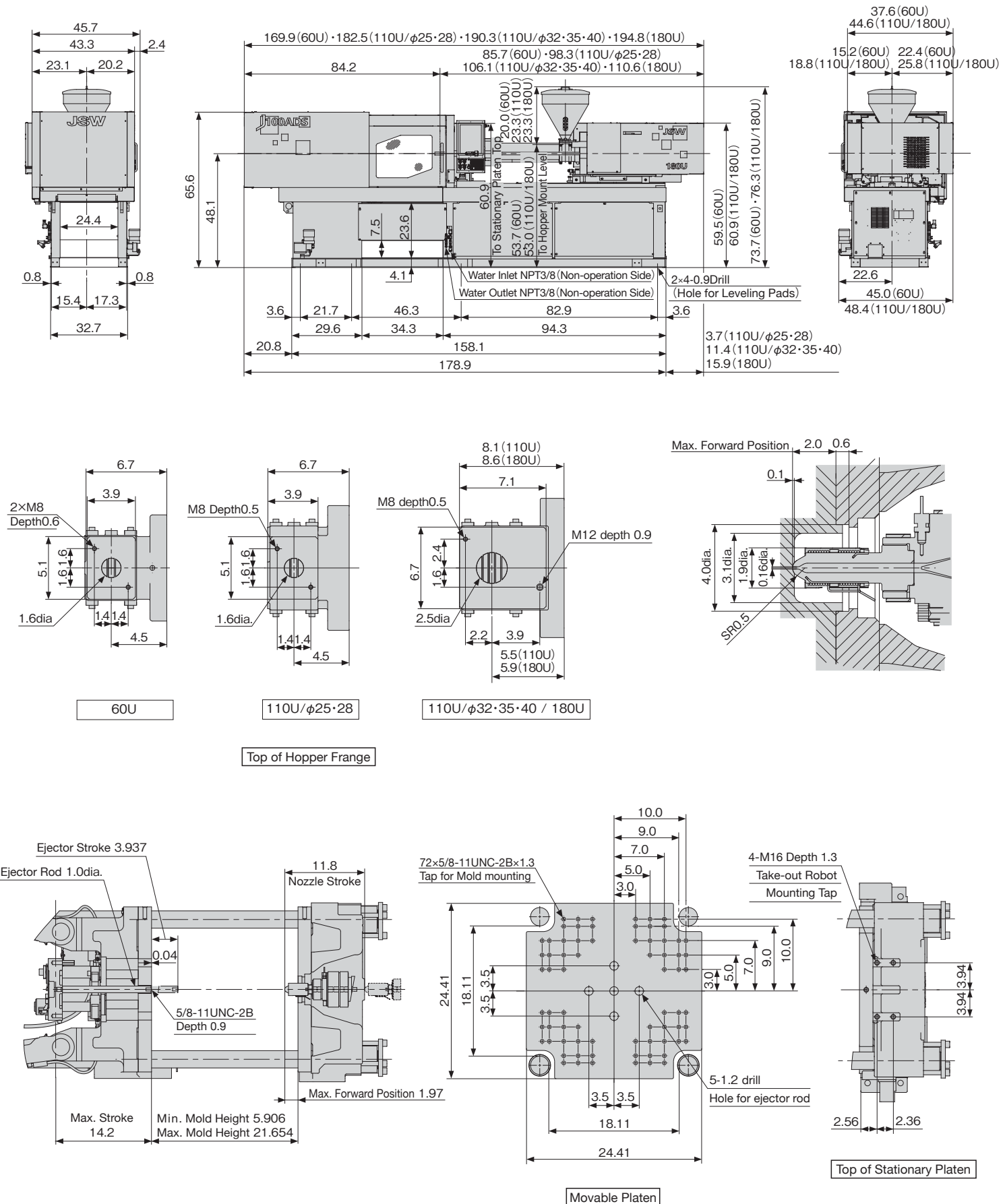
Unit	Item	Model	J100ADS											
			60U			110U						180U		
Injection Unit	Screw Diameter	in	0.98	1.10	1.26	0.98	1.10	1.26	1.38	1.57	1.38	1.57	1.77	
	Screw Stroke	in	3.94			3.94			4.72			5.51		
	Theoretical Injection Capacity	in ³	2.99	3.78	4.88	2.99	3.78	5.92	7.02	9.21	8.24	10.74	13.61	
	Injection Capacity (GP-PS)	oz	1.59	1.98	2.58	1.59	1.98	3.10	3.70	4.83	4.34	5.64	7.16	
	Standard	Injection Pressure (Max.)	psi	39,160	31,183	23,931	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771
		Holding Pressure (Max.)	psi	35,534	28,282	21,756	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740
		Injection Speed	in/s	13.78			13.78			13.78				
		Injection Rate	in ³ /s	10.5	13.2	17.1	10.5	13.2	17.1	20.6	26.9	20.6	26.9	34.0
		Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627
		Screw Speed	rpm	400			400			400				
	High Speed (Option)	Injection Pressure (Max.)	psi	39,160	31,183	23,931	Not Applicable							
		Holding Pressure (Max.)	psi	35,534	28,282	21,756	Not Applicable							
Injection Speed		in/s	19.69			Not Applicable								
Injection Rate		in ³ /s	15.0	18.8	24.5	Not Applicable								
Plasticizing Capacity (GP-PS)		oz/s	0.333	0.451	0.725	Not Applicable								
Screw Speed		rpm	400			Not Applicable								
Ext. Holding Pressure (Option)	Injection Pressure (Max.)	psi	39,160	31,183	23,931	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771	
	Holding Pressure (Max.)	psi	35,534	28,282	21,756	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740	
	Injection Speed	in/s	9.84			9.84			7.87					
	Injection Rate	in ³ /s	7.5	9.4	12.3	7.5	9.4	12.3	14.7	19.2	14.7	19.2	24.3	
	Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627	
	Screw Speed	rpm	400			400			400					
Clamping Unit	Nozzle Touch Force	U.S.ton	2.2 Center Touch			2.8 Center Touch								
	Nozzle Stroke from Platen	in	1.97											
	Type of Nozzle		Open Nozzle											
	Barrel Temperature Control		Barrel 4, Nozzle 2											
	Heater Wattage	kW	5.5			6.7			9.2			10.2		
	Mechanism		Double Toggle											
	Clamping Force	U.S.ton	112.4											
	Daylight Opening (Max.)	in	35.83											
	Opening Stroke (Max.)	in	14.17											
	Mold Height	in	5.906~21.654											
General	Distance Between Tie-bars (HXV)	in	18.11×18.11											
	Platen Size (H×V)	in	24.41×24.41											
	Locating Ring Diameter	in	4.0											
	Ejector Point		5 points											
	Ejector Force	U.S.ton	3.64											
	Ejector Stroke	in	3.937											
	Machine Weight	U.S.ton	4.41			4.96			5.07					
	Machine Dimensions (L×W×H)	ft	14.90×3.80×5.47			15.22×4.03×5.47			15.85×4.03×5.47			16.24×4.03×5.47		

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Equipment Dimensions and Mold Related Dimensions

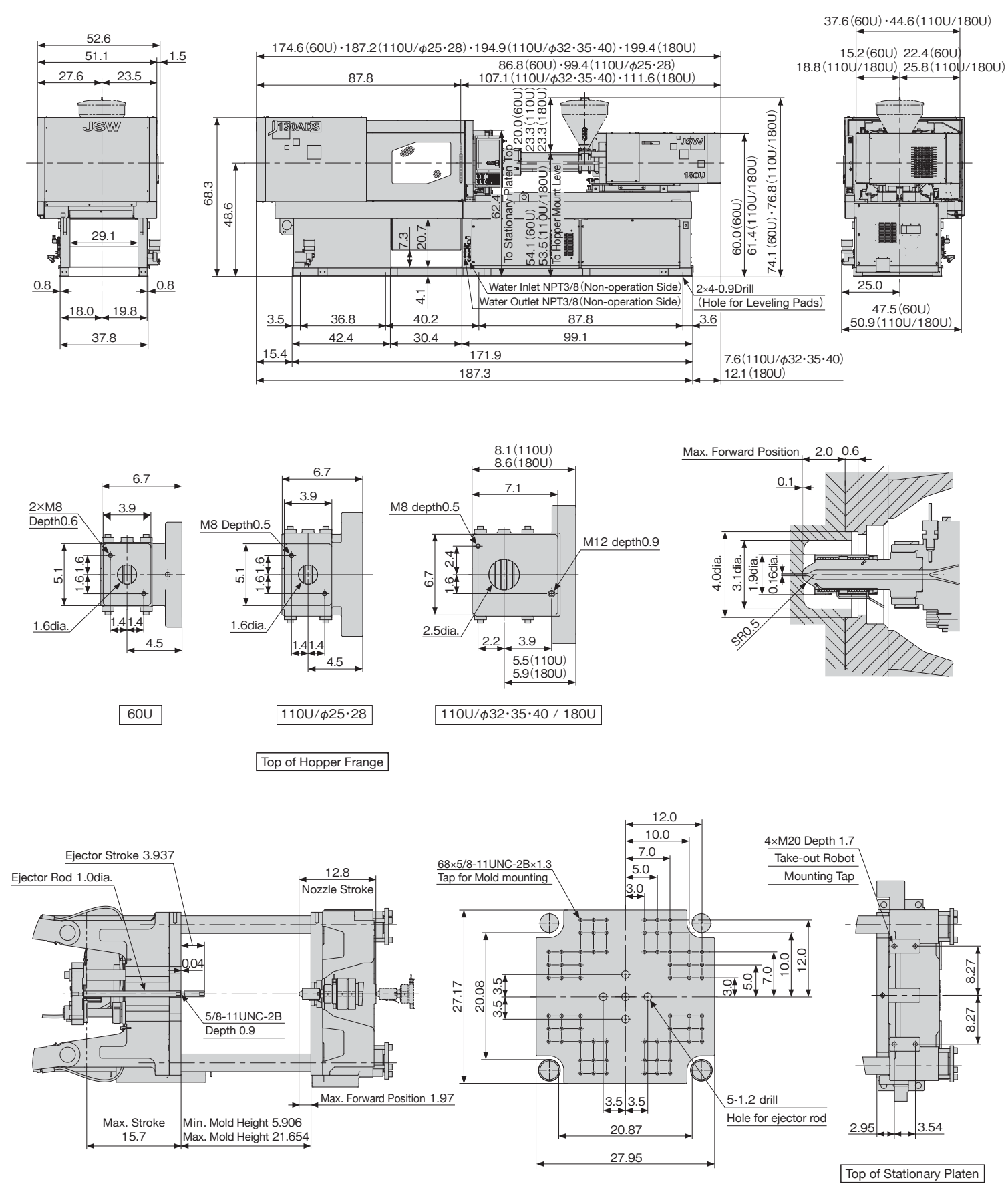
Unit	Model	J130ADS												
		60U			110U				180U					
Injection Unit	Screw Diameter	in	0.98	1.10	1.26	0.98	1.10	1.26	1.38	1.57	1.38	1.57	1.77	
	Screw Stroke	in	3.94			3.94				4.72				
	Theoretical Injection Capacity	in ³	2.99	3.78	4.88	2.99	3.78	5.92	7.02	9.21	8.24	10.74	13.61	
	Injection Capacity (GP-PS)	oz	1.59	1.98	2.58	1.59	1.98	3.10	3.70	4.83	4.34	5.64	7.16	
	Standard	Injection Pressure (Max.)	psi	39,160	31,183	23,931	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771
		Holding Pressure (Max.)	psi	35,534	28,282	21,756	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740
		Injection Speed	in/s	13.78			13.78				13.78			
		Injection Rate	in ³ /s	10.5	13.2	17.1	10.5	13.2	17.1	20.6	26.9	20.6	26.9	34.0
		Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627
	High Speed (Option)	Screw Speed	rpm	400			400				400			
		Injection Pressure (Max.)	psi	39,160	31,183	23,931	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771
		Holding Pressure (Max.)	psi	35,534	28,282	21,756	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740
		Injection Speed	in/s	19.69			19.69				19.69			
Injection Rate		in ³ /s	15.0	18.8	24.5	15.0	18.8	24.5	29.4	38.3	29.4	38.3	48.5	
Ext. Holding Pressure (Option)	Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627	
	Screw Speed	rpm	400			400				400				
	Injection Pressure (Max.)	psi	39,160	31,183	23,931	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771	
	Holding Pressure (Max.)	psi	35,534	28,282	21,756	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740	
	Injection Speed	in/s	9.84			9.84				7.87				
General	Injection Rate	in ³ /s	7.5	9.4	12.3	7.5	9.4	12.3	14.7	19.2	14.7	19.2	24.3	
	Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627	
Clamping Unit	Screw Speed	rpm	400			400				400				
	Nozzle Touch Force	U.S.ton	2.2 Center Touch				2.8 Center Touch							
	Nozzle Stroke from Platen	in	1.97											
	Type of Nozzle		Open Nozzle											
	Barrel Temperature Control		Barrel 4, Nozzle 2											
	Heater Wattage	kW	5.5			6.7				9.2				
	Mechanism		Double Toggle											
	Clamping Force	U.S.ton	146.1											
	Daylight Opening (Max.)	in	37.40											
	Opening Stroke (Max.)	in	15.75											
Mold Height	in	5.906~21.654												
Distance Between Tie-bars (HXV)	in	20.87×20.08												
Platen Size (H×V)	in	27.95×27.17												
Locating Ring Diameter	in	4.0												
Ejector Point		5 points												
Ejector Force	U.S.ton	3.64												
Ejector Stroke	in	3.937												
General	Machine Weight	U.S.ton	5.84			6.39				6.50				
	Machine Dimensions (L×W×H)	ft	15.56×4.39×5.69			15.61×4.39×5.69				16.24×4.39×5.69				

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

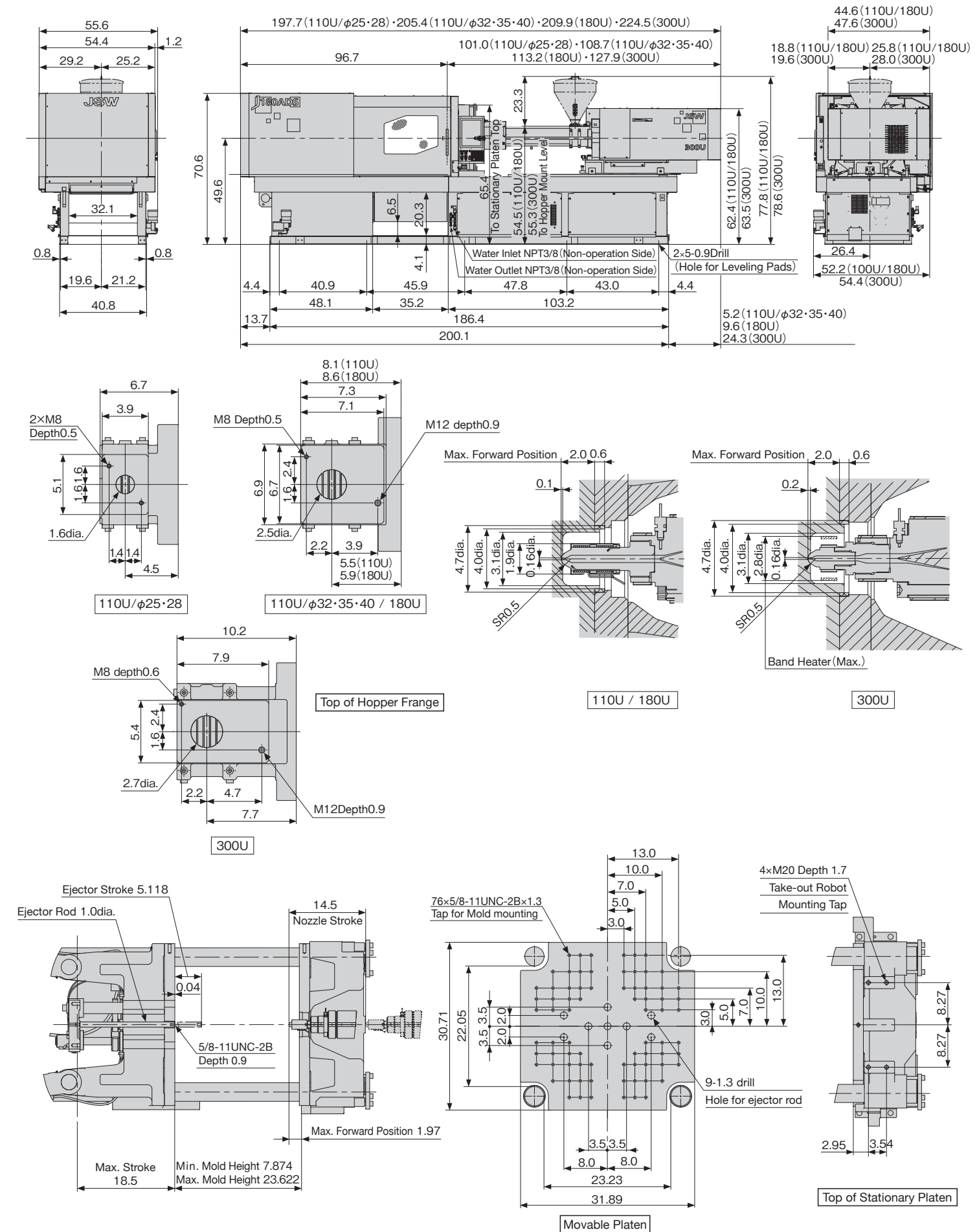
Unit	Model	J180ADS															
		110U				180U				300U							
Injection Unit	Screw Diameter	in	0.98	1.10	1.26	1.38	1.57	1.38	1.57	1.77	1.57	1.81	2.01				
	Screw Stroke	in	3.94				4.72				5.51						
	Theoretical Injection Capacity	in ³	2.99	3.78	5.92	7.02	9.21	8.24	10.74	13.61	13.79	18.25	22.46				
	Injection Capacity (GP-PS)	oz	1.59	1.98	3.10	3.70	4.83	4.34	5.64	7.16	7.27	9.63	11.82				
	Standard	Injection Pressure (Max.)	psi	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771	36,259	27,412	22,336			
		Holding Pressure (Max.)	psi	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740	32,924	24,946	20,305			
		Injection Speed	in/s	13.78				13.78				9.45					
		Injection Rate	in ³ /s	10.5	13.2	17.1	20.6	26.9	20.6	26.9	34.0	18.4	24.3	29.9			
		Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627	1.274	1.803	2.273			
	Injection Unit (Option)	Screw Speed	rpm	400				400				400					
		Injection Pressure (Max.)	psi	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771	36,259	27,412	22,336			
		Holding Pressure (Max.)	psi	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740	32,924	24,946	20,305			
		Injection Speed	in/s	19.69				19.69				12.99					
		Injection Rate	in ³ /s	15.0	18.8	24.5	29.4	38.3	29.4	38.3	48.5	25.3	33.4	41.1			
	High Speed (Option)	Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627	1.274	1.803	2.273			
Screw Speed		rpm	400				400				400						
Injection Pressure (Max.)		psi	46,412	43,511	39,160	32,633	24,946	37,710	28,863	22,771	36,259	27,412	22,336				
Holding Pressure (Max.)		psi	42,061	39,885	35,534	29,704	22,742	34,229	26,252	20,740	32,924	24,946	20,305				
Injection Speed		in/s	9.84				7.87				6.30						
Ext. Holding Pressure (Option)	Injection Rate	in ³ /s	7.5	9.4	12.3	14.7	19.2	14.7	19.2	24.3	12.3	16.2	20.0				
	Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725	0.901	1.205	0.903	1.247	1.627	1.274	1.803	2.273				
	Screw Speed	rpm	400				400				400						
	Nozzle Touch Force	U.S.ton	2.8 Center Touch														
	Nozzle Stroke from Platen	in	1.97														
Type of Nozzle		Open 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			
Clamping Unit	Mechanism		Double Toggle														
	Clamping Force	U.S.ton	202.3														
	Daylight Opening (Max.)	in	42.13														
	Opening Stroke (Max.)	in	18.50														
	Mold Height	in	7.874~23.622														
	Distance Between Tie-bars (HXV)	in	23.23x22.05														
	Platen Size (HxV)	in	31.89x30.71														
	Locating Ring Diameter	in	4.0						4.0								
	Ejector Point		9 points														
	Ejector Force	U.S.ton	3.86														
Ejector Stroke	in	5.118															
General	Machine Weight	U.S.ton	8.26						8.48								
	Machine Dimensions (LxWxH)	ft	17.01x4.63x5.88				17.11x4.63x5.88				17.49x4.63x5.88				18.71x4.63x5.88		

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 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	
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
Clamping unit	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 Control (1 Holding Pressure Transfer by Speed Detection)
	Barrel Temperature Control (PID)
	Synchronous Temperature Rise Control
	Hopper Flange Temperature Control
	Soft Pack Servo Control
Others	HAVC (High Accuracy Volume Control)
	IWCS (Injection Weight and Cushion Stability) Control
	Reverse seal Control
	Auto Grease Lubrication
	Barrel Insulation Cover
	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	
The 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.
 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

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
Monitor	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
	Actual Value Display
	Injection/Metering Waveform Monitor
Others	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 Buzz	
Alarm History	
Set Value History	
Safety 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
Clamping unit	Barrel Blower Cooling Unit
	Hopper
	Hopper Slide Device
	High-speed injection spec.
	Extended Holding Pressure Time Note. 3
	Long-time Plasticizing Spec. Note. 4
	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	

Item	
Other	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)
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	Not Applicable
J100ADS	60U	9.6	10.4
	110U	14.1	Not Applicable
J130ADS	110U	14.1	15.7
	180U	16.7	18.3
J180ADS	110U	12.8	14.4
	180U	14.9	16.5
	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 (ft ³ /h)
15U	7.06
30U	
60U	10.59
110U	
180U	
300U	14.13

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