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Printed in Japan HO,AF,AA,AJ,A

JADS SERIES

Electric Servo Drive Injection Molding Machine

Model

J30ADS | J50ADS | J80ADS | J100ADS | J130ADS | J180ADS

Specifications

– In U.S. Unit –

Made in HIROSHIMA

JSW

ISO 9001
ISO 14001
JQA-QMA13993
JQA-EM6416 (Hiroshima Plant)

J30ADS

Performance Table

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	24,946
		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	24,946
		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:
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.

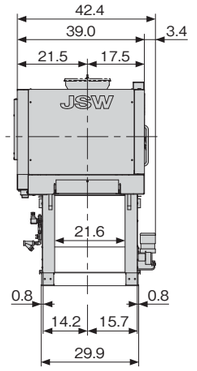
Note:
1.Due to continual improvements, specifications are subject to change without notice.
2.Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3.Performance specifications are based on theoretical data.
4.High speed injection and Ext. holding pressure injection are optional.
5.1MPa=10.2 kgf/cm², 1kN=0.102tf

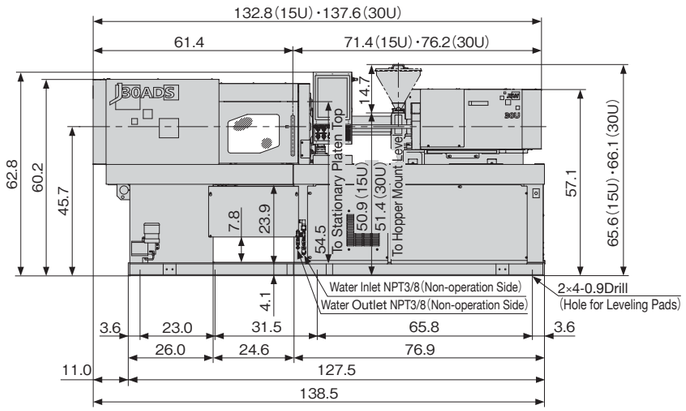
JSW

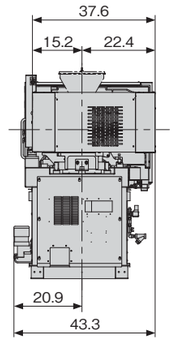
J30ADS

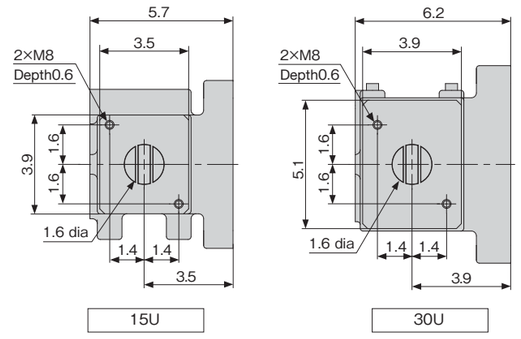
JADS SERIES
Electric Servo Drive
Injection Molding Machine

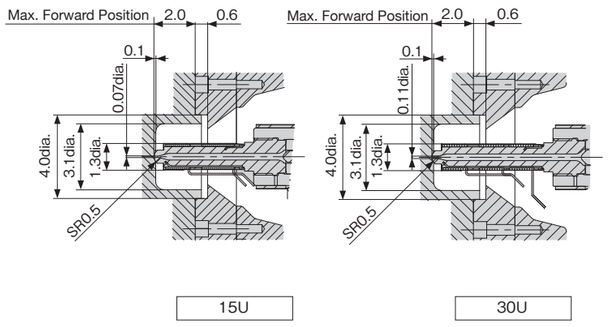
Equipment Dimensions and Mold Related Dimensions



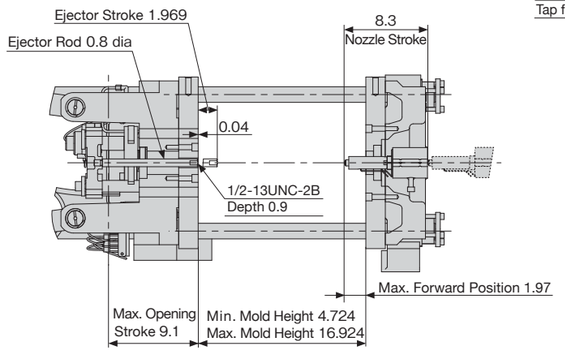


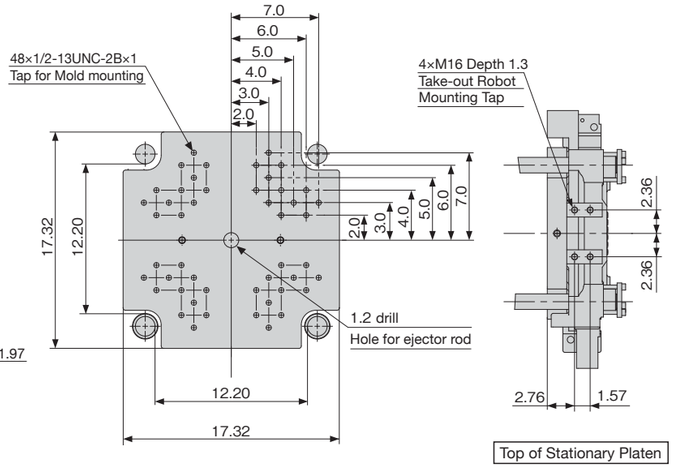






Top of Hopper Frange





Movable Platen

Top of Stationary Platen

JSW

J50ADS

Performance Table

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	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		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			12.50×3.61×5.22			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.

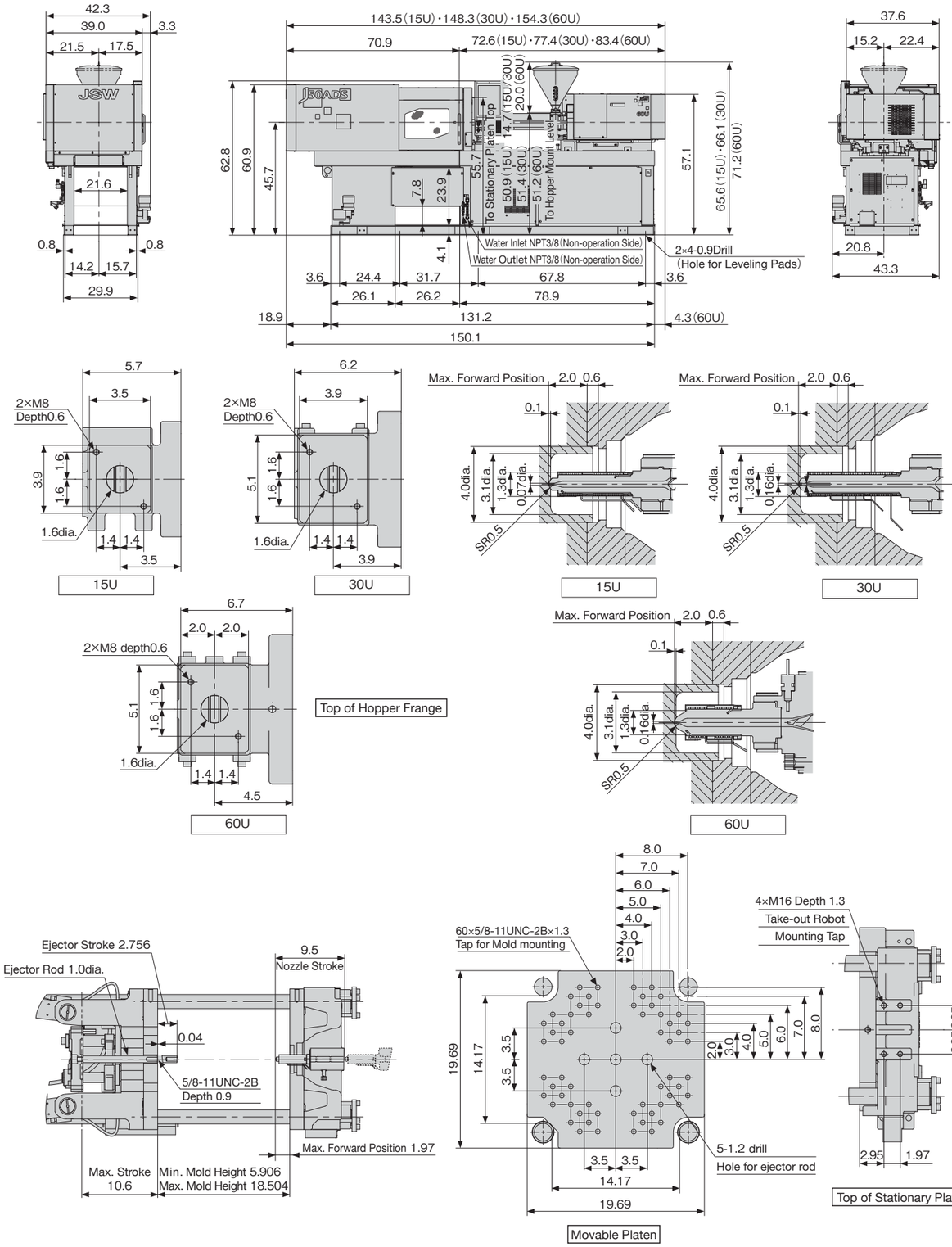
Note:
1.Due to continual improvements, specifications are subject to change without notice.
2.Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3.Performance specifications are based on theoretical data.
4.High speed injection and Ext. holding pressure injection are optional.
5.1MPa=10.2 kgf/cm², 1kN=0.102tf

JSW

J50ADS

JADS SERIES
Electric Servo Drive
Injection Molding Machine

Equipment Dimensions and Mold Related Dimensions



JSW

Performance Table

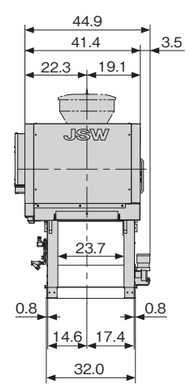
Unit	Item		Model	J80ADS									
				30U			60U			110U			
Injection Unit	Screw Diameter	in		0.79	0.87	0.98	0.98	1.10	1.26	0.98	1.10	1.26	1.57
	Screw Stroke	in		3.15			3.94			3.94			
	Theoretical Injection Capacity	in^3		1.53	1.83	2.38	2.99	3.78	4.88	2.99	3.78	5.92	9.21
	Injection Capacity (GP-PS)	oz		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		
		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		
	High Speed (Option)	Injection Pressure (Max.)	psi	39,160	32,343	24,946	39,160	31,183	23,931	Not Applicable			
		Holding Pressure (Max.)	psi	35,534	29,443	22,771	35,534	28,282	21,756				
		Injection Speed	in/s		19.69			19.69					
		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					
	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		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			
Clamping Unit	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 (H×V)		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									
General	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			

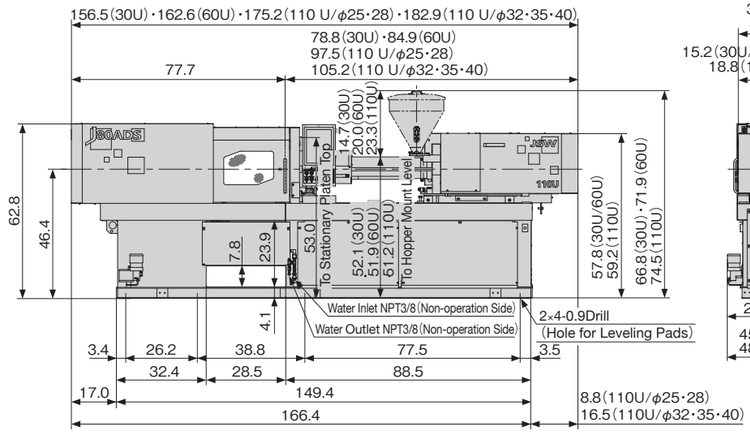
Remarks:
1.Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
2.The theoretical injection capacity is (cross sectional area of barrel)×(stroke of screw).
3.The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding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

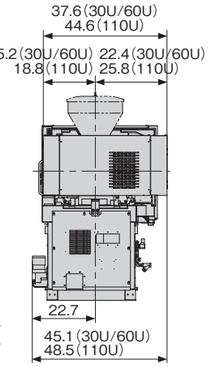
Note:
1.Due to continual improvements, specifications are subject to change without notice.
2.Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3.Performance specifications are based on theoretical data.
4.High speed injection and Ext. holding pressure injection are optional.
5.1MPa=10.2 kgf/cm², 1kN=0.102tf

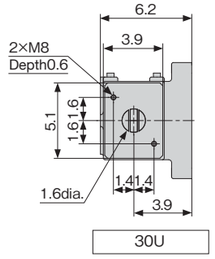
J80ADS

Equipment Dimensions and Mold Related Dimensions

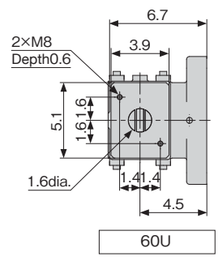








30U



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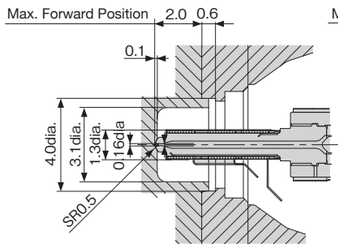

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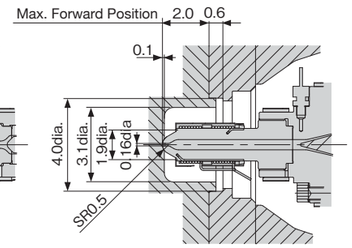

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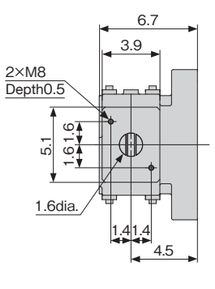

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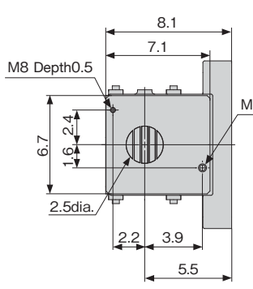
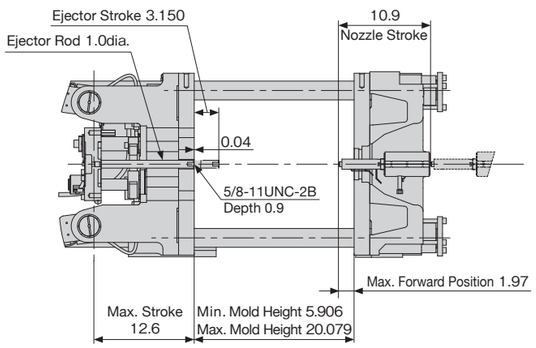
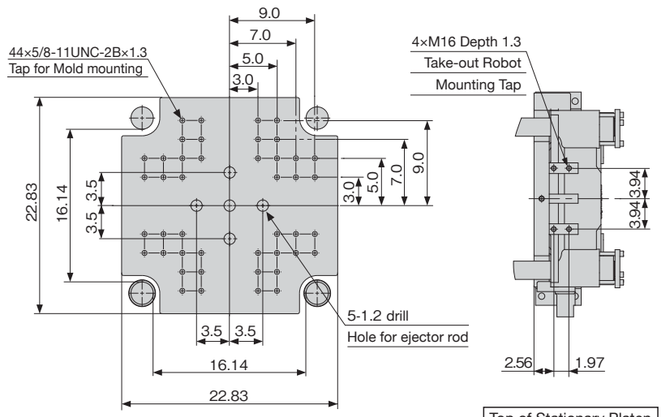


110U/ϕ32・35・40

Top of Hopper Frange





Movable Platen

Top of Stationary Platen

J100ADS

Performance Table

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
	Standard: 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
	Standard: Injection Speed	in/s	13.78			13.78					13.78		
	Standard: 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
	Standard: 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
	Standard: Screw Speed	rpm	400			400					400		
	High Speed (Option): Injection Pressure (Max.)	psi	39,160	31,183	23,931	Not Applicable							
	High Speed (Option): Holding Pressure (Max.)	psi	35,534	28,282	21,756								
	High Speed (Option): Injection Speed	in/s	19.69										
	High Speed (Option): Injection Rate	in^3/s	15.0	18.8	24.5								
	High Speed (Option): Plasticizing Capacity (GP-PS)	oz/s	0.333	0.451	0.725								
	High Speed (Option): Screw Speed	rpm	400										
	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
	Ext. Holding Pressure (Option): 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
	Ext. Holding Pressure (Option): Injection Speed	in/s	9.84			9.84					7.87		
	Ext. Holding Pressure (Option): 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
	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
	Ext. Holding Pressure (Option): 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			10.2		
Clamping Unit	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										
	Distance Between Tie-bars (H×V)	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										
General	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		

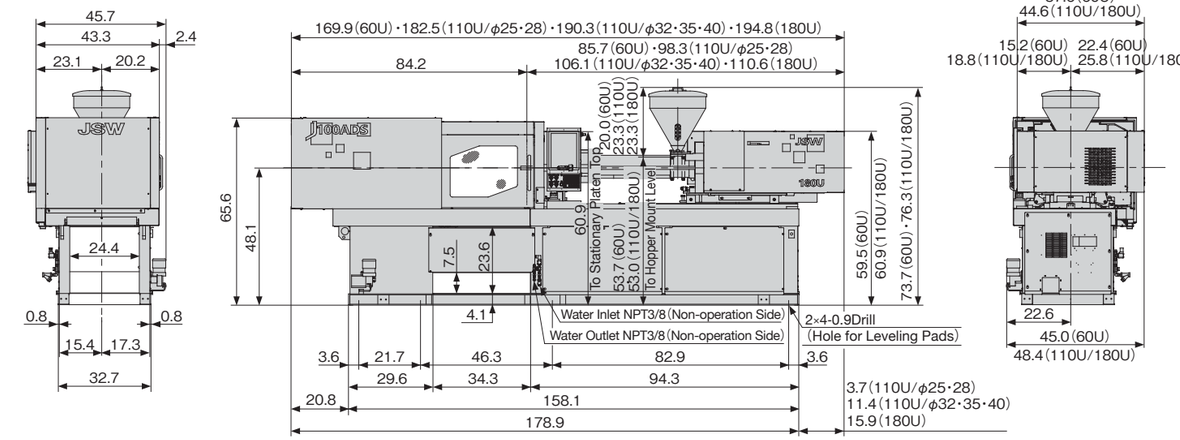
Remarks:
1.Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
2.The theoretical injection capacity is (cross sectional area of barrel)×(stroke of screw).
3.The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding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

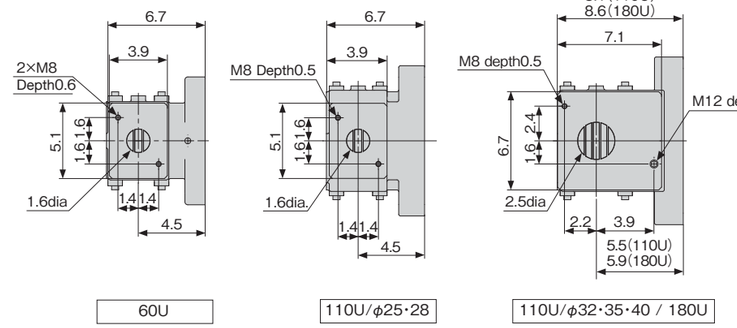
Note:
1.Due to continual improvements, specifications are subject to change without notice.
2.Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3.Performance specifications are based on theoretical data.
4.High speed injection and Ext. holding pressure injection are optional.
5.1MPa=10.2 kgf/cm², 1kN=0.102tf

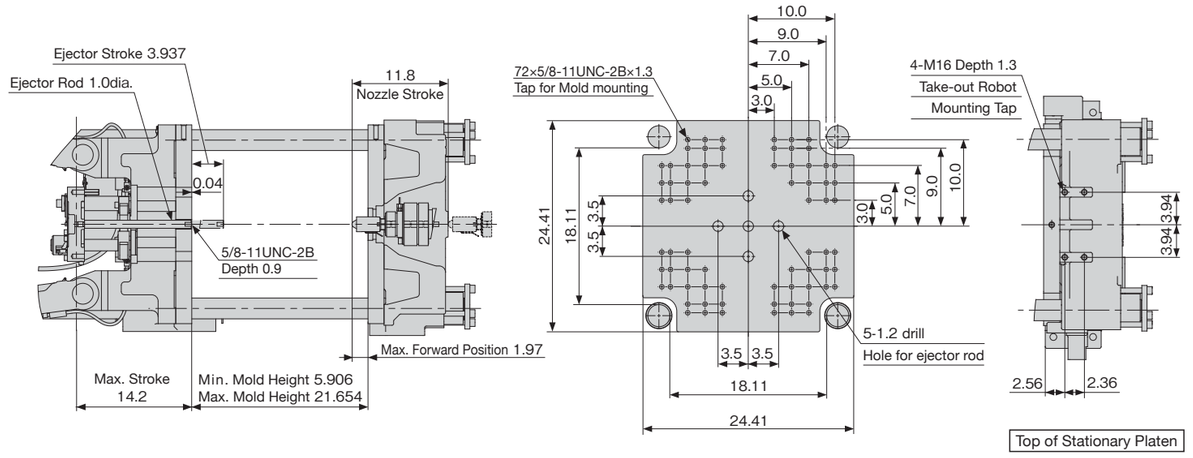
J100ADS

JADS SERIES
Electric Servo Drive Injection Molding Machine

Equipment Dimensions and Mold Related Dimensions







JSW

J130ADS

Performance Table

Unit	Item		J130ADS 60U			J130ADS 110U					J130ADS 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
	Standard: 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
	Standard: Injection Speed	in/s	13.78			13.78					13.78		
	Standard: 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
	Standard: 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
	Standard: Screw Speed	rpm	400			400					400		
	High Speed (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
	High Speed (Option): 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
	High Speed (Option): Injection Speed	in/s	19.69			19.69					19.69		
	High Speed (Option): 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
	High Speed (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
	High Speed (Option): Screw Speed	rpm	400			400					400		
	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
	Ext. Holding Pressure (Option): 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
	Ext. Holding Pressure (Option): Injection Speed	in/s	9.84			9.84					7.87		
	Ext. Holding Pressure (Option): 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
	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
	Ext. Holding Pressure (Option): 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			10.2		
Clamping Unit	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 (H×V)	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			16.62×4.39×5.69		

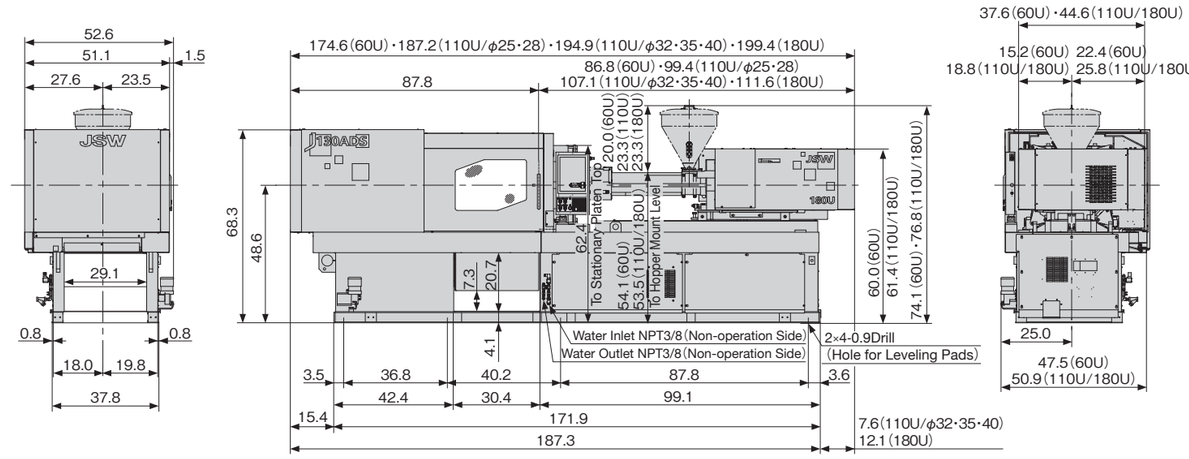
Remarks:
1.Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
2.The theoretical injection capacity is (cross sectional area of barrel)×(stroke of screw).
3.The injection capacity is applicable for GP-PS and variable according to the grade of resin, molding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

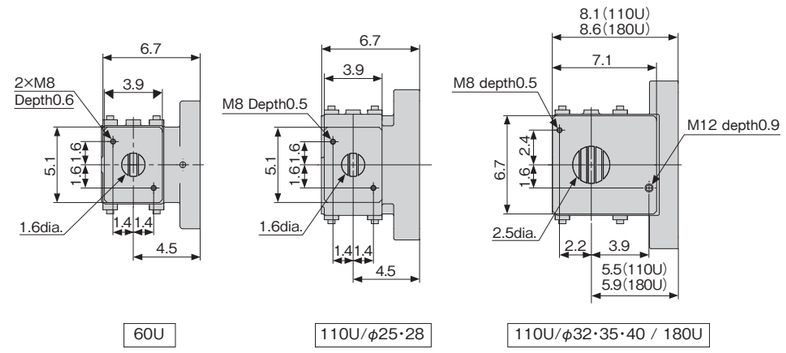
Note:
1.Due to continual improvements, specifications are subject to change without notice.
2.Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3.Performance specifications are based on theoretical data.
4.High speed injection and Ext. holding pressure injection are optional.
5.1MPa=10.2 kgf/cm², 1kN=0.102tf

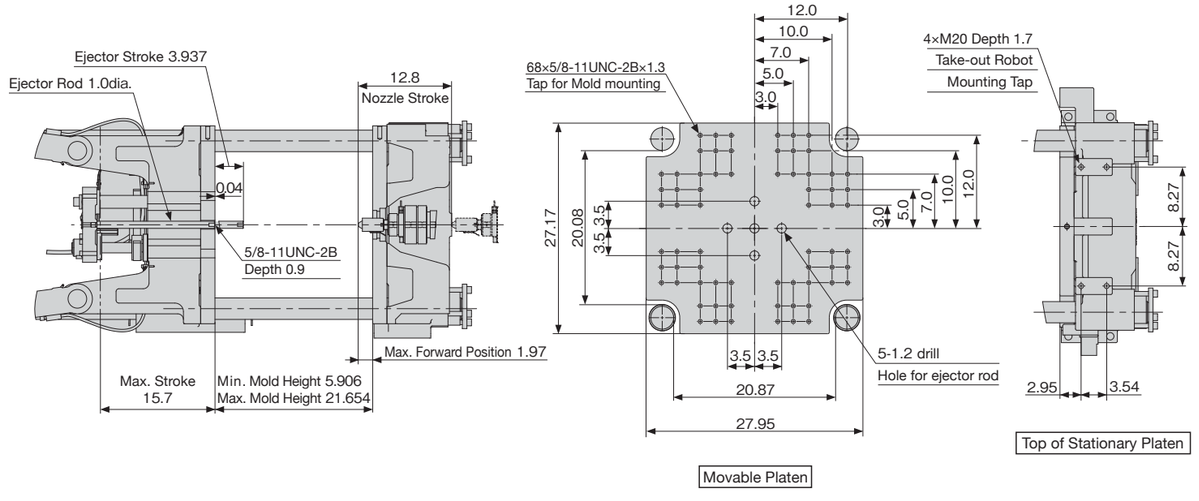
J130ADS

JADS SERIES
Electric Servo Drive Injection Molding Machine

Equipment Dimensions and Mold Related Dimensions







JSW

J180ADS

Performance Table

Unit	Item \ 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			7.09	
	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
	Standard: 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
	Standard: Injection Speed	in/s	13.78					13.78			9.45		
	Standard: 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
	Standard: 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
	Standard: Screw Speed	rpm	400					400			400		
	High Speed (Option): 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
	High Speed (Option): 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
	High Speed (Option): Injection Speed	in/s	19.69					19.69			12.99		
	High Speed (Option): 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
	High Speed (Option): Screw Speed	rpm	400					400			400		
	Ext. Holding Pressure (Option): 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
	Ext. Holding Pressure (Option): 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
	Ext. Holding Pressure (Option): 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
	Ext. Holding Pressure (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
	Ext. Holding Pressure (Option): 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 (H×V)	in	23.23×22.05										
	Platen Size (H×V)	in	31.89×30.71										
	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 (L×W×H)	ft	17.01×4.63×5.88		17.11×4.63×5.88			17.49×4.63×5.88			18.71×4.63×5.88		

Remarks:
1.Maximum injection pressure and maximum holding pressure may be restricted due to molding condition.
2.The theoretical injection capacity is (cross sectional area of barrel)×(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.

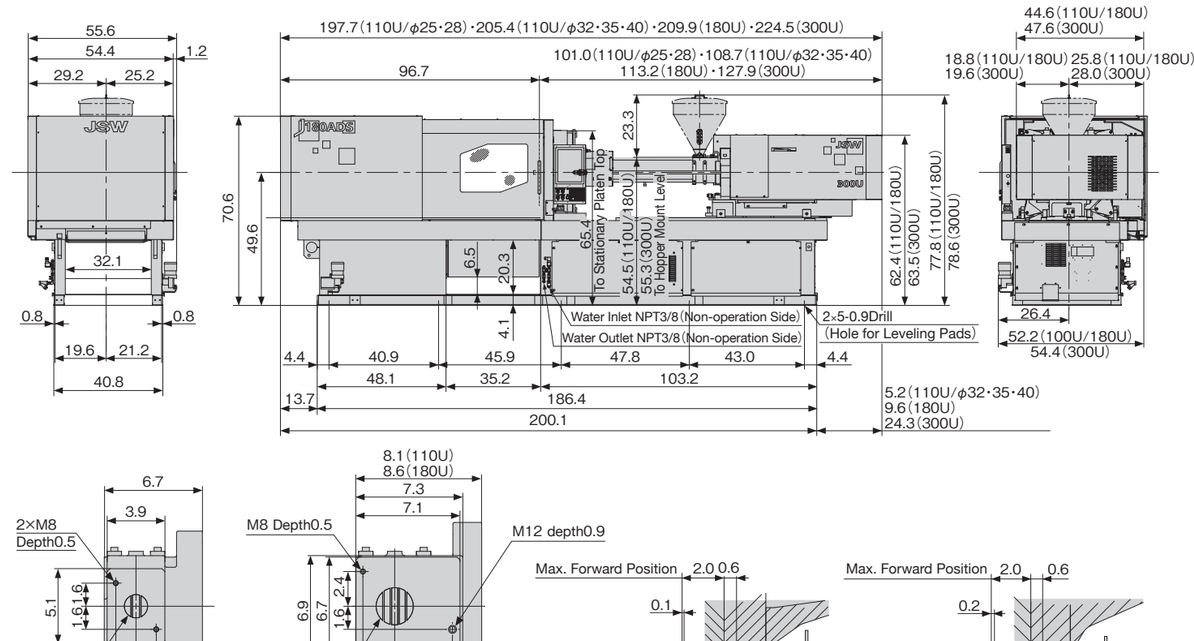
Note:
1.Due to continual improvements, specifications are subject to change without notice.
2.Actual figures of the specification will vary depending on final machine configuration. Please contact us if you require more specific data.
3.Performance specifications are based on theoretical data.
4.High speed injection and Ext. holding pressure injection are optional.
5.1MPa=10.2 kgf/cm², 1kN=0.102tf

JSW

J180ADS

JADS SERIES
Electric Servo Drive Injection Molding Machine

Equipment Dimensions and Mold Related Dimensions



JSW

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 Comfirmation 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)		

	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 Caputure 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	
	Injection Pressure Overshoot Alarm	
	Servo Fault Alarm	
	Grease Lubrication Alarm	
	Fault Alarm Buzz	
	Alarm History	
	Set Value History	
Others	Safty Compliance to JIMS K1001	
	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.
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

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.	
	Extended Holding Presure Time	Note. 3
	Long-time Plasticizing Spec.	Note. 4
Clamping unit	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	

	Item	
Electrical instrumentation 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

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
	60U	9.4	10.2	10.2
J80ADS	30U	6.2	6.9	6.9
	60U	9.4	10.2	10.2
	110U	13.9	Not Applicable	13.9
J100ADS	60U	9.6	10.4	10.4
	110U	14.1	Not Applicable	14.1
	180U	16.7	Not Applicable	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.

■ 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 temmperature.