

JT AD SERIES

All Electric Servo Drive Vertical Type Injection Molding Machine

Specifications

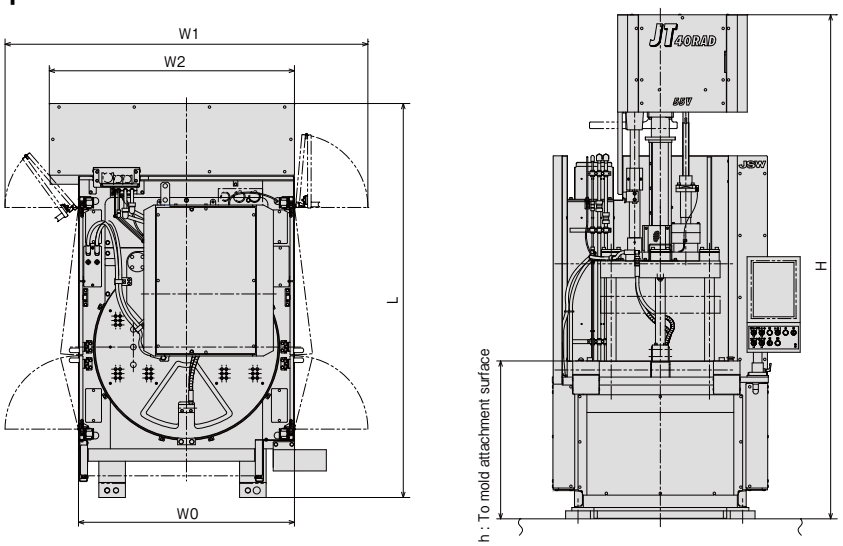
Model	JT20RAD JT40RAD JT70RAD	JT100RAD JT150RAD	JT220RAD JT220RAD(Wide)	JT40AD JT70AD JT100AD

JSW

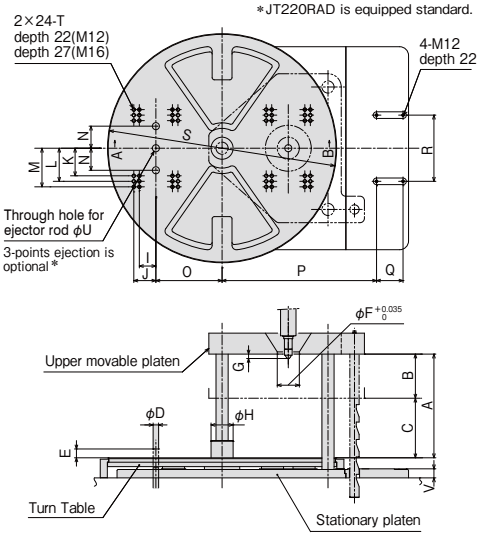
CERTIFIED JQA MANAGEMENT SYSTEM
ISO 9001
ISO 14001

JQA-QMA13993
JQA-EM6416

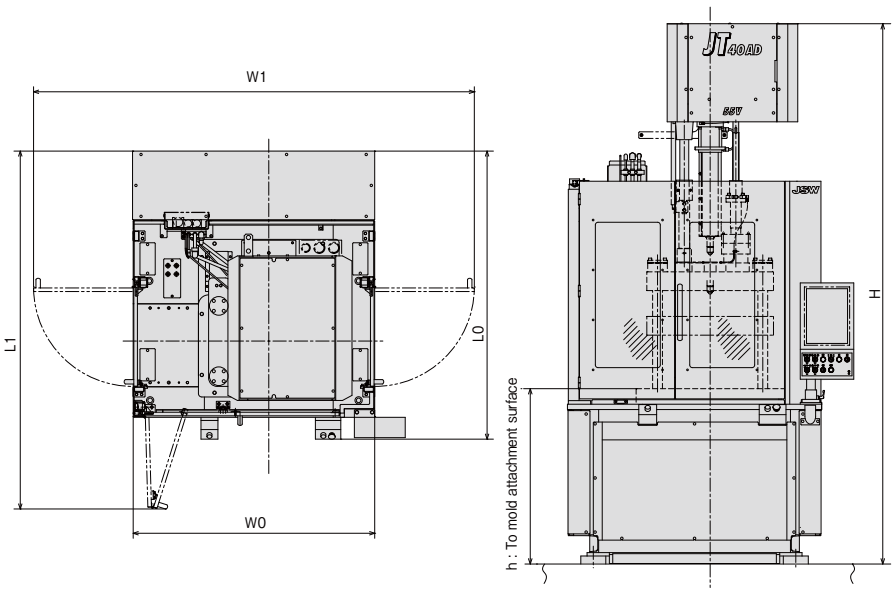
Rotary type
Equipment dimensions



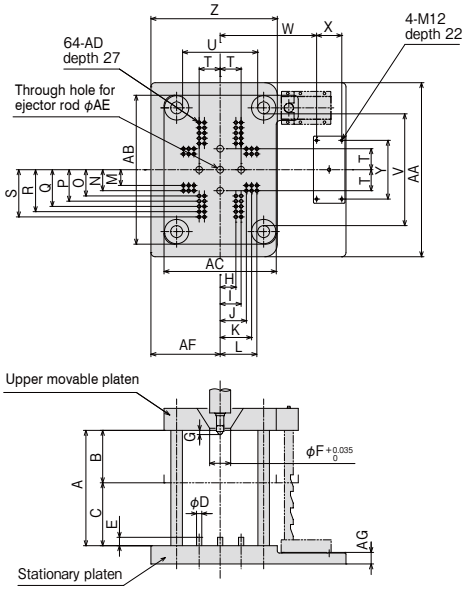
Rotary type
Mold related dimensions



Single acting type
Equipment dimensions



Single acting type
Mold related dimensions



■Mold Related Dimensions

Rotary type

(Unit: mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
JT20RAD	430	200	150~230	25	40	100	20	85	50	75	100	125	150	100	275	700	120	300	912	M12	32	36
JT40RAD	470	200	170~270	25	40	100	20	100	75	100	125	150	175	100	300	700	120	300	1032	M16	32	41
JT70RAD	550	250	200~300	25	60	100	20	120	75	125	150	175	200	100	340	770	120	300	1160	M16	32	46
JT100RAD	600	250	250~350	25	60	100	20	140	100	150	175	200	225	100	385	915	120	300	1310	M16	32	48
JT150RAD	650	250	300~400	25	60	100	20	170	125	175	200	225	250	100	445	1022	120	300	1490	M16	32	63
JT220RAD	800	350	350~450	30	100	120	20	190	125	175	225	250	275	100	485	1242	120	300	1630	M16	37	86
JT220RAD (wide)	800	350	350~450	30	100	120	20	190	125	175	225	250	275	100	485	1242	120	300	1760	M16	37	86

Single acting type

(Unit: mm)

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
JT40AD	550	250	200~300	25	40	100	20	75	100	125	150	175	75	100	125	150	175	200	225	100	360	535
JT70AD	600	250	250~350	25	60	100	20	75	125	150	175	200	75	125	150	175	200	225	250	100	410	550
JT100AD	650	250	300~400	25	60	100	20	100	150	175	200	225	100	150	175	200	225	250	275	100	460	595

Model	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
JT40AD	460	120	280	603	830	710	535	M16	32	330	55
JT70AD	500	120	280	703	930	760	620	M16	32	390	55
JT100AD	550	120	280	793	990	840	710	M16	32	440	70

■Equipment Dimensions

Rotary type

(Unit: mm)

Model	Injection module	L	W0	W1	W2	H min.	H max.	h	Machine weight (t)
JT20RAD	20V STD/HR*	2226	1100	1930	1385	2393	2634	884	2.6
	20V-HS*	2226	1100	1930	1385	2512	2992	884	2.7
	55V STD/HR	2226	1100	1930	1385	2393	2790	884	2.7
JT40RAD	20V STD/HR	2226	1220	2052	1385	2179	2689	889	3.1
	20V-HS	2226	1220	2052	1385	2537	3047	889	3.2
	55V STD/HR	2226	1220	2052	1385	2335	2845	889	3.2
	55V-HS	2226	1220	2052	1385	2761	3271	889	3.3
	110V STD/HR	2226	1220	2052	1385	2592	3102	889	3.4
JT70RAD	55V STD/HR	2376	1360	2296	1405	2471	3061	995	4.0
	55V-HS	2376	1360	2296	1405	2897	3487	995	4.2
	110V STD/HR	2376	1360	2296	1405	2728	3318	995	4.2
	110V-HS	2376	1360	2296	1405	3305	3895	995	4.5
JT100RAD	55V STD/HR	2656	1520	2604	1710	2603	3223	1077	5.1
	55V-HS	2656	1520	2604	1710	3029	3649	1077	5.3
	110V STD/HR	2656	1520	2604	1710	2860	3480	1077	5.3
	110V-HS	2656	1520	2604	1710	3437	4057	1077	5.6
	230V	2656	1520	2604	1710	3165	3785	1077	6.0
JT150RAD	110V STD/HR	2826	1720	2930	1900	3031	3671	1198	7.1
	110V-HS	2826	1720	2930	1900	3608	4248	1198	7.3
	230V	2826	1720	2930	1900	3336	3976	1198	7.6
	230V-HS	2826	1720	2930	1900	3923	4563	1198	8.0
JT220RAD	230V	3381	1850	3260	1850	3748	4548	1470	11.3
	230V-HS	3381	1850	3260	1850	4245	5045	1470	11.8
	410V	3381	1850	3260	1850	4573	5373	1470	12.2
	410V-HS	3381	1850	3260	1850	4618	5418	1470	12.4
JT220RAD (Wide)	230V	3376	1980	3390	1850	3748	4548	1470	11.7
	230V-HS	3376	1980	3390	1850	4245	5045	1470	12.2
	410V	3376	1980	3390	1850	4573	5373	1470	12.7
	410V-HS	3376	1980	3390	1850	4618	5418	1470	12.9

Single acting type

(Unit: mm)

Model	Injection module	LO	L1	W0	W1	H min.	H max.	h	Machine weight (t)
JT40AD	20V STD/HR	1832	2282	1425	2598	2300	2870	980	3.1
	20V-HS	1832	2282	1425	2598	2658	3228	980	3.2
	55V STD/HR	1832	2282	1425	2598	2456	3026	980	3.2
	55V-HS	1832	2282	1425	2598	2882	3452	980	3.3
	110V STD/HR	1832	2282	1425	2598	2713	3283	980	3.4
JT70AD	55V STD/HR	1917	2422	1540	2923	2566	3156	1040	3.9
	55V-HS	1917	2422	1540	2923	2992	3582	1040	4.0
	110V STD/HR	1917	2422	1540	2923	2823	3413	1040	4.1
	110V-HS	1917	2422	1540	2923	3400	3990	1040	4.3
JT100AD	55V STD/HR	1990	2484	1620	3234	2680	3300	1104	4.5
	55V-HS	1990	2484	1620	3234	3106	3726	1104	4.6
	110V STD/HR	1990	2484	1620	3234	2937	3557	1104	4.8
	110V-HS	1990	2484	1620	3234	3515	4135	1104	5.0
	230V	1990	2484	1620	3234	3242	3862	1104	5.3

HR*…Low-inertia (option)　HS*…High-speed (option)

Rotary Type Performance Table

Unit	Item		Model	JT20RAD						JT40RAD					
			Unit	20V			55V			20V			55V		
Injection Unit	Screw barrel type		—	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)
	Screw diameter		mm	18	20	22	25	28	32	18	20	22	25	28	32
	Screw stroke		mm	65			90			65			90		
	Theoretical injection capacity		cm^3	17	20	25	44	55	72	17	20	25	44	55	72
	Injection capacity (GP-PS)		g	16	19	24	42	52	68	16	19	24	42	52	68
	Standard	Injection pressure (Max.)	MPa	222	180	149	226	180	138	222	180	149	226	180	138
			kgf/cm^2	2260	1840	1520	2300	1840	1410	2260	1840	1520	2300	1840	1410
		Holding pressure (Max.)	MPa	200	162	134	203	162	124	200	162	134	203	162	124
			kgf/cm^2	2040	1650	1370	2070	1650	1260	2040	1650	1370	2070	1650	1260
		Injection speed	mm/s	300			270			300			270		
		Injection rate	cm^3/s	76	94	114	133	166	217	76	94	114	133	166	217
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	14	18	22	20	25	30
		Screw speed	min^{-1}	500			350			500			350		
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa	247	200	165	251	200	153	247	200	165	251	200	153
			kgf/cm^2	2520	2040	1680	2560	2040	1560	2520	2040	1680	2560	2040	1560
		Holding pressure (Max.)	MPa	222	180	149	226	180	138	222	180	149	226	180	138
			kgf/cm^2	2260	1840	1520	2300	1840	1410	2260	1840	1520	2300	1840	1410
		Injection speed	mm/s	350			350			350			350		
		Injection rate	cm^3/s	89	110	133	172	216	281	89	110	133	172	216	281
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	14	18	22	20	25	30
		Screw speed	min^{-1}	500			350			500			350		
	High-speed (HS) OP	Injection pressure (Max.)	MPa	247	200	165	—	—	—	247	200	165	251	200	153
			kgf/cm^2	2520	2040	1680	—	—	—	2520	2040	1680	2560	2040	1560
		Holding pressure (Max.)	MPa	222	180	149	—	—	—	222	180	149	226	180	138
			kgf/cm^2	2260	1840	1520	—	—	—	2260	1840	1520	2300	1840	1410
		Injection speed	mm/s	550			—			550			500		
		Injection rate	cm^3/s	140	173	209	—	—	—	140	173	209	245	308	402
		Plasticizing rate (GP-PS)	kg/h	14	18	22	—	—	—	14	18	22	20	25	30
		Screw speed	min^{-1}	500			—			500			350		
	Nozzle touch force		kN {tf}	15 {1.5}			15 {1.5}			15 {1.5}			15 {1.5}		
	Nozzle stroke from platen		mm	20						20					
	Type of nozzle		—	Open nozzle						Open nozzle					
	Barrel temperature control		—	Barrel: 3, nozzle: 2						Barrel: 3, nozzle: 2					
	Heater wattage		kW	3.0			5.5			3.0			5.5		
Clamping Unit	Mechanism		—	Double toggle						Double toggle					
	Clamping force		kN {tf}	196 {20}						392 {40}					
	Daylight opening (Max.)		mm	430						470					
	Opening stroke (Max.)		mm	200						200					
	Mold height		mm	150 ~ 230						170 ~ 270					
	Mold size (Max.)		mm	305×305						365×365					
	Lower mold weight (Max.)		kg	150×2						225×2					
	Table outside diameter		mm	912						1032					
	Ejector point		—	1 point						1 point					
	Ejector force		kN {tf}	18 {1.8}						18 {1.8}					
	Ejector stroke		mm	40						40					
Miscellaneous	Machine weight		t	2.6			2.7			3.1			3.2		
	Machine weight (HS)		t	2.7			—			3.2			3.3		
	Machine dimensions (L×W×H)		m	2.23	1.39	2.64	2.23	1.39	2.79	2.23	1.39	2.69	2.23	1.39	2.85
	Machine dimensions (HS)(L×W×H)		m	2.23	1.39	3.00	—	—	—	2.23	1.39	3.05	2.23	1.39	3.28
	Table height		mm	844						889					

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. Low inertia injection specifications and high-speed injection specifications can be handled as option.
5. Screw cylinder size B is optional.
6. 1 MPa = 10.2 kgf/cm^2, 1 kN = 0.102 tf

	JT40RAD			JT70RAD						JT100RAD								
	110V			55V			110V			55V			110V			230V		
	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)
	32	35	40	25	28	32	32	35	40	25	28	32	32	35	40	40	45	50
	110			90			110			90			110			145		
	88	106	138	44	55	72	88	106	138	44	55	72	88	106	138	182	231	285
	84	101	131	42	52	68	84	101	131	42	52	68	84	101	131	173	219	271
	215	180	138	226	180	138	215	180	138	226	180	138	215	180	138	228	180	146
	2190	1840	1410	2300	1840	1410	2190	1840	1410	2300	1840	1410	2190	1840	1410	2320	1840	1490
	194	162	124	203	162	124	194	162	124	203	162	124	194	162	124	205	162	131
	1980	1650	1260	2070	1650	1260	1980	1650	1260	2070	1650	1260	1980	1650	1260	2090	1650	1340
	160			270			160			270			160			160		
	129	154	201	133	166	217	129	154	201	133	166	217	129	154	201	201	254	314
	30	40	50	20	25	30	30	40	50	20	25	30	30	40	50	60	76	88
	300			350			300			350			300			250		
	239	200	153	251	200	153	239	200	153	251	200	153	239	200	153	—	—	—
	2440	2040	1560	2560	2040	1560	2440	2040	1560	2560	2040	1560	2440	2040	1560	—	—	—
	215	180	138	226	180	138	215	180	138	226	180	138	215	180	138	—	—	—
	2190	1840	1410	2300	1840	1410	2190	1840	1410	2300	1840	1410	2190	1840	1410	—	—	—
	200			350			200			350			200			—		
	161	192	251	172	216	281	161	192	251	172	216	281	161	192	251	—	—	—
	30	40	50	20	25	30	30	40	50	20	25	30	30	40	50	—	—	—
	300			350			300			350			300			—		
	—	—	—	251	200	153	239	200	153	251	200	153	239	200	153	—	—	—
	—	—	—	2560	2040	1560	2440	2040	1560	2560	2040	1560	2440	2040	1560	—	—	—
	—	—	—	226	180	138	215	180	138	226	180	138	215	180	138	—	—	—
	—	—	—	2300	1840	1410	2190	1840	1410	2300	1840	1410	2190	1840	1410	—	—	—
	—			500			350			500			350			—		
	—	—	—	245	308	402	281	337	440	245	308	402	281	337	440	—	—	—
	—	—	—	20	25	30	30	40	50	20	25	30	30	40	50	—	—	—
	—			350			300			350			300			—		
	15 {1.5}			15 {1.5}			15 {1.5}			15 {1.5}			15 {1.5}			15 {1.5}		
	20			20						20								
	Open nozzle			Open nozzle						Open nozzle								
	Barrel: 3, nozzle: 2			Barrel: 3, nozzle: 2						Barrel: 3, nozzle: 2								
	7.7			5.5			7.7			5.5			7.7			12.4		
	Double toggle			Double toggle						Double toggle								
	392 {40}			686 {70}						981 {100}								
	470			550						600								
	200			250						250								
	170 ~ 270			200 ~ 300						250 ~ 350								
	365×365			405×405						455×455								
	225×2			300×2						400×2								
	1032			1160						1310								
	1 point			1 point						1 point								
	18 {1.8}			26 {2.7}						26 {2.7}								
	40			60						60								
	3.4			4.0			4.2			5.1			5.3			6.0		
	—			4.2			4.5			5.3			5.6			—		
	2.23	1.39	3.11	2.38	1.41	3.07	2.38	1.41	3.32	2.66	1.71	3.23	2.66	1.71	3.48	2.66	1.71	3.79
	—	—	—	2.38	1.41	3.49	2.38	1.41	3.90	2.66	1.71	3.65	2.66	1.71	4.06	—	—	—
	889			995						1077								

Rotary Type Performance Table

Unit	Item		Model	JT150RAD						JT220RAD					
			Unit	110V			230V			230V			410V		
Injection Unit	Screw barrel type		—	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)
	Screw diameter		mm	32	35	40	40	45	50	40	45	50	46	53	58
	Screw stroke		mm	110			145			145			185		
	Theoretical injection capacity		cm^3	88	106	138	182	231	285	182	231	285	307	408	489
	Injection capacity (GP-PS)		g	84	101	131	173	219	271	173	219	271	292	388	465
	Standard	Injection pressure (Max.)	MPa	215	180	138	228	180	146	228	180	146	239	180	150
			kgf/cm^2	2190	1840	1410	2320	1840	1490	2320	1840	1490	2440	1840	1530
		Holding pressure (Max.)	MPa	194	162	124	205	162	131	205	162	131	215	162	135
			kgf/cm^2	1980	1650	1260	2090	1650	1340	2090	1650	1340	2190	1650	1380
		Injection speed	mm/s	160			160			160			160		
		Injection rate	cm^3/s	129	154	201	201	254	314	201	254	314	266	353	423
		Plasticizing rate (GP-PS)	kg/h	30	40	50	60	76	88	60	76	88	70	100	125
		Screw speed	min^{-1}	300			250			250			220		
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa	239	200	153	—	—	—	—	—	—	—	—	—
			kgf/cm^2	2440	2040	1560	—	—	—	—	—	—	—	—	—
		Holding pressure (Max.)	MPa	215	180	138	—	—	—	—	—	—	—	—	—
			kgf/cm^2	2190	1840	1410	—	—	—	—	—	—	—	—	—
		Injection speed	mm/s	200			—			—			—		
		Injection rate	cm^3/s	161	192	251	—	—	—	—	—	—	—	—	—
		Plasticizing rate (GP-PS)	kg/h	30	40	50	—	—	—	—	—	—	—	—	—
		Screw speed	min^{-1}	300			—			—			—		
	High-speed (HS) OP	Injection pressure (Max.)	MPa	239	200	153	228	180	146	228	180	146	239	180	150
			kgf/cm^2	2440	2040	1560	2320	1840	1490	2320	1840	1490	2440	1840	1530
		Holding pressure (Max.)	MPa	215	180	138	205	162	131	205	162	131	215	162	135
			kgf/cm^2	2190	1840	1410	2090	1650	1340	2090	1650	1340	2190	1650	1380
		Injection speed	mm/s	350			330			330			300		
		Injection rate	cm^3/s	281	337	440	415	525	648	415	525	648	499	662	793
		Plasticizing rate (GP-PS)	kg/h	30	40	50	60	76	88	60	76	88	70	100	125
		Screw speed	min^{-1}	300			250			250			220		
	Nozzle touch force		kN {tf}	15 {1.5}			15 {1.5}			15 {1.5}			20 {2.0}		
	Nozzle stroke from platen		mm	20						20					
	Type of nozzle		—	Open nozzle						Open nozzle					
	Barrel temperature control		—	Barrel: 3, nozzle: 2						Barrel: 3, nozzle: 2					
	Heater wattage		kW	7.7			12.4			12.4			13.1		
Clamping Unit	Mechanism		—	Double toggle						Double toggle					
	Clamping force		kN {tf}	1471 {150}						2160 {220}					
	Daylight opening (Max.)		mm	650						800					
	Opening stroke (Max.)		mm	250						350					
	Mold height		mm	300 ~ 400						350 ~ 450					
	Mold size (Max.)		mm	510×510						560×560					
	Lower mold weight (Max.)		kg	500×2						690×2					
	Table outside diameter		mm	1490						1630					
	Ejector point		—	1 point						3 points					
	Ejector force		kN {tf}	26 {2.7}						42{4.3}					
	Ejector stroke		mm	60						100					
Miscellaneous	Machine weight		t	7.1			7.6			11.3			12.2		
	Machine weight (HS)		t	7.3			8.0			11.8			12.4		
	Machine dimensions (L×W×H)		m	2.83	1.90	3.68	2.83	1.90	3.98	3.38	1.85	4.55	3.38	1.85	5.38
	Machine dimensions (HS) (L×W×H)		m	2.83	1.90	4.25	2.83	1.90	4.57	3.38	1.85	5.05	3.38	1.85	5.42
	Table height		mm	1198						1470					

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. Low inertia injection specifications and high-speed injection specifications can be handled as option.
5. Screw cylinder size B is optional.
6. 1 MPa = 10.2 kgf/cm^2, 1 kN = 0.102 tf

	JT220RAD(Wide) (OP)					
	230V			410V		
	K	A	B(OP)	K	A	B(OP)
	40	45	50	46	53	58
	145			185		
	182	231	285	307	408	489
	173	219	271	292	388	465
	228	180	146	239	180	150
	2320	1840	1490	2440	1840	1530
	205	162	131	215	162	135
	2090	1650	1340	2190	1650	1380
	160			160		
	201	254	314	266	353	423
	60	76	88	70	100	125
	250			220		
	–	–	–	–	–	–
	–	–	–	–	–	–
	–	–	–	–	–	–
	–	–	–	–	–	–
	–			–		
	–	–	–	–	–	–
	–	–	–	–	–	–
	–			–		
	228	180	146	239	180	150
	2320	1840	1490	2440	1840	1530
	205	162	131	215	162	135
	2090	1650	1340	2190	1650	1380
	330			300		
	415	525	648	499	662	793
	60	76	88	70	100	125
	250			220		
	15 {1.5}			20 {2.0}		
	20					
	Open nozzle					
	Barrel: 3, nozzle: 2					
	12.4			13.1		
	Double toggle					
	2160 {220}					
	800					
	350					
	350 ~ 450					
	660×660					
	690×2					
	1760					
	3 points					
	42 {4.3}					
	100					
	11.7			12.7		
	12.2			12.9		
	3.38	1.98	4.55	3.38	1.98	5.38
	3.38	1.98	5.05	3.38	1.98	5.42
	1470					

Single Acting Type Performance Table

Unit	Item		Model	JT40AD									JT70AD		
			Unit	20V			55V			110V			55V		
Injection Unit	Screw barrel type		—	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)
	Screw diameter		mm	18	20	22	25	28	32	32	35	40	25	28	32
	Screw stroke		mm	65			90			110			90		
	Theoretical injection capacity		cm^3	17	20	25	44	55	72	88	106	138	44	55	72
	Injection capacity (GP-PS)		g	16	19	24	42	52	68	84	101	131	42	52	68
	Standard	Injection pressure (Max.)	MPa	222	180	149	226	180	138	215	180	138	226	180	138
			kgf/cm^2	2260	1840	1520	2300	1840	1410	2190	1840	1410	2300	1840	1410
		Holding pressure (Max.)	MPa	200	162	134	203	162	124	194	162	124	203	162	124
			kgf/cm^2	2040	1650	1370	2070	1650	1260	1980	1650	1260	2070	1650	1260
		Injection speed	mm/s	300			270			160			270		
		Injection rate	cm^3/s	76	94	114	133	166	217	129	154	201	133	166	217
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	30	40	50	20	25	30
		Screw speed	min^{-1}	500			350			300			350		
	Low-inertia (HR) OP	Injection pressure (Max.)	MPa	247	200	165	251	200	153	239	200	153	251	200	153
			kgf/cm^2	2520	2040	1680	2560	2040	1560	2440	2040	1560	2560	2040	1560
		Holding pressure (Max.)	MPa	222	180	149	226	180	138	215	180	138	226	180	138
			kgf/cm^2	2260	1840	1520	2300	1840	1410	2190	1840	1410	2300	1840	1410
		Injection speed	mm/s	350			350			200			350		
		Injection rate	cm^3/s	89	110	133	172	216	281	161	192	251	172	216	281
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	30	40	50	20	25	30
		Screw speed	min^{-1}	500			350			300			350		
	High-speed (HS) OP	Injection pressure (Max.)	MPa	247	200	165	251	200	153	—	—	—	251	200	153
			kgf/cm^2	2520	2040	1680	2560	2040	1560	—	—	—	2560	2040	1560
		Holding pressure (Max.)	MPa	222	180	149	226	180	138	—	—	—	226	180	138
			kgf/cm^2	2260	1840	1520	2300	1840	1410	—	—	—	2300	1840	1410
		Injection speed	mm/s	550			500			—			500		
		Injection rate	cm^3/s	140	173	209	245	308	402	—	—	—	245	308	402
		Plasticizing rate (GP-PS)	kg/h	14	18	22	20	25	30	—	—	—	20	25	30
		Screw speed	min^{-1}	500			350			—			350		
	Nozzle touch force		kN {tf}	15 {1.5}			15 {1.5}			15 {1.5}			15 {1.5}		
	Nozzle stroke from platen		mm	20									20		
	Type of nozzle		—	Open Nozzle									Open Nozzle		
	Barrel temperature control		—	Barrel: 3, nozzle: 2									Barrel: 3, nozzle: 2		
	Heater wattage		kW	3.0			5.5			7.7			5.5		
Clamping Unit	Mechanism		—	Double toggle									Double toggle		
	Clamping force		kN {tf}	392 {40}									686 {70}		
	Daylight opening (Max.)		mm	550									600		
	Opening stroke (Max.)		mm	250									250		
	Mold height		mm	200 ~ 300									250 ~ 350		
	Distance between tie-bars (D×W)		mm	360×535									410×550		
	Ejector point		—	5 points									5 points		
	Ejector force		kN {tf}	18 {1.8}									26 {2.7}		
	Ejector stroke		mm	40									60		
Miscellaneous	Machine weight		t	3.1			3.2			3.4			3.9		
	Machine weight (HS)		t	3.2			3.3			—			4.0		
	Machine dimensions (L×W×H)		m	1.83	1.43	2.87	1.83	1.43	3.03	1.83	1.43	3.29	1.92	1.54	3.16
	Machine dimensions (HS) (L×W×H)		m	1.83	1.43	3.23	1.83	1.43	3.46	—	—	—	1.92	1.54	3.59
	Table height		mm	980									1040		

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. Low inertia injection specifications and high-speed injection specifications can be handled as option.
5. Screw cylinder size B is optional.
6. 1 MPa = 10.2 kgf/cm^2, 1 kN = 0.102 tf

	JT70AD			JT100AD								
	110V			55V			110V			230V		
	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)	K	A	B(OP)
	32	35	40	25	28	32	32	35	40	40	45	50
	110			90			110			145		
	88	106	138	44	55	72	88	106	138	182	231	285
	84	101	131	42	52	68	84	101	131	173	219	271
	215	180	138	226	180	138	215	180	138	228	180	146
	2190	1840	1410	2300	1840	1410	2190	1840	1410	2320	1840	1490
	194	162	124	203	162	124	194	162	124	205	162	131
	1980	1650	1260	2070	1650	1260	1980	1650	1260	2090	1650	1340
	160			270			160			160		
	129	154	201	133	166	217	129	154	201	201	254	314
	30	40	50	20	25	30	30	40	50	60	76	88
	300			350			300			250		
	239	200	153	251	200	153	239	200	153	–	–	–
	2440	2040	1560	2560	2040	1560	2440	2040	1560	–	–	–
	215	180	138	226	180	138	215	180	138	–	–	–
	2190	1840	1410	2300	1840	1410	2190	1840	1410	–	–	–
	200			350			200			–		
	161	192	251	172	216	281	161	192	251	–	–	–
	30	40	50	20	25	30	30	40	50	–	–	–
	300			350			300			–		
	239	200	153	251	200	153	239	200	153	–	–	–
	2440	2040	1560	2560	2040	1560	2440	2040	1560	–	–	–
	215	180	138	226	180	138	215	180	138	–	–	–
	2190	1840	1410	2300	1840	1410	2190	1840	1410	–	–	–
	350			500			350			–		
	281	337	440	245	308	402	281	337	440	–	–	–
	30	40	50	20	25	30	30	40	50	–	–	–
	300			350			300			–		
	15 {1.5}			15 {1.5}			15 {1.5}			15 {1.5}		
	20			20								
	Open Nozzle			Open Nozzle								
	Barrel: 3, nozzle: 2			Barrel: 3, nozzle: 2								
	7.7			5.5			7.7			12.4		
	Double toggle			Double toggle								
	686 {70}			981 {100}								
	600			650								
	250			250								
	250 ~ 350			300 ~ 400								
	410×550			460×595								
	5 points			5 points								
	26 {2.7}			26 {2.7}								
	60			60								
	4.1			4.5			4.8			5.3		
	4.3			4.6			5.0			–		
	1.92	1.54	3.42	1.99	1.62	3.30	1.99	1.62	3.56	1.99	1.62	3.87
	1.92	1.54	3.99	1.99	1.62	3.73	1.99	1.62	4.14	–	–	–
	1040			1104								

List of standard accessories and optional accessories

■List of standard accessories

	Item		
Injection/plasticizing	KC nozzle (tip type)		
	N2000F barrel (corrosion/abrasion resistance type)	Note 1	
	LSP-2 screw (abrasion resistance type)	Note 1	
	HT screw head		
	Screw suck-back		
	Screw and barrel attachment/detachment device		
	Screw cold start prevention		
	Molding/Pause temperature select		
	Automatic purging circuit		
	Nozzle touch force remote setting		
	Nozzle retract select		
	Suck-back select		
	Automatic greasing		
	Injection/Metering programmed control	Injection/holding pressure: 1 to 6 steps (variable) Metering/back pressure: 1 to 3 steps (variable)	
	Holding pressure transfer by speed detection (IVS control)		
	Barrel temperature remote setting		
	Barrel temperature control (SSR)		
	Soft-pack servo control		
	Hopper flange temperature control		
	IWCS control		
	Reverse seal control		
	Holding pressure control select		
	Synchronous temperature rise control		
Clamping	Grease-free toggle bushing		
	Automatic greasing		
	Mold open/close and ejection programmed control	Mold open/close: 4 steps (fixed) Ejection: 1 to 3 steps (variable)	
	Electric-driven mold thickness adjusting device		
	Mold thickness remote setting		
	Auto clamping force setting		
	Toggle type injection compression function	A-mode B-mode Compression: 1 to 6 steps (variable)	
	Mold protection function		
	Photoelectric safety device (rotary type only)		
	Table speed remote setting (rotary type only)		
	Clamping safety device (electric/double mechanical type)	Note 2	
	Robot mounting holes		

	Item	
Controller	Touch-panel TFT color LCD controller	
	Molding condition storage (internal memory: 120 molds)	Note 3
	Lower two-die molding condition auto switching (rotary type only)	
	USB printer port	Note 4
	Self-diagnosis function	
	Overall setting screen	
	Help function	
	Pre-heat timer	
	Compound action	
	Clock	
	Attended/unattended operation select	
	Multi-language select (English/Chinese/Japanese)	
Monitor	Barrel temperature monitor	
	Heater system fault	
	Injection pressure monitor (IPM)	
	Injection/metering waveform monitor	
	Injection/metering waveform storage	
	Oscilloscope waveform monitor	
	Injection pressure overshoot alarm	
	Statistical graph	
	Measurement value display	
	Mold temperature display	Note 5
	Grease lubrication fault alarm	
	Fault alarm buzzer	
	Production monitor	
	Cumulative operating hour display	
	Cycle monitor	
	Molding condition upper/lower limit monitor	Note 6
	Inspection and maintenance	Note 7
	Alarm history	
	Set value history	
	Servo fault alarm	
Others	Cooling water closed circuit	
	Accessories (maintenance tools, ejector rods)	

Note 1: One set of K or A size screws is equipped in standard. B size is optional.
Note 2: Photoelectric type is used for operation side of rotary type.
Note 3: The external memory can store up to 1000 mold conditions.
Prepare commercial USB data storage media.
Note 4: Printer and printer cable are optional.
Note 5: Thermal sensor and electric wiring are not included.
Note 6: A maximum of 8 items and alarms can be selected out of the following monitor items.
① Cycle time ② Injection time ③ Metering time ④ Cushion position ⑤ Holding pressure end position
⑥ Injection pressure ⑦ Holding pressure transfer pressure ⑧ Screw back pressure ⑨ Metering end position
⑩ Injection start position ⑪ Holding pressure transfer position ⑫ Mold open time ⑬ Mold close time
⑭ Metering torque ⑮ Holding pressure transfer speed ⑯ Mold inner pressure <option>
Note 7: Indicates inspection time and items.

■List of optional accessories

	Item	
Injection	Long nozzle	
	Shut-off nozzle (pneumatic type)	
	Hi-Melta MII screw	Note 1
	Ultra corrosion/abrasion resistance screw barrel	Note 2
	B size screw barrel	
	Hopper throat abrasion resistance sleeve	
	Barrel insulation cover	
	Hopper	
	Hopper attachment tube	
	Ceramic screw head	
	PCD screw head	
	Module 1 rank down sized barrel	
	Residual resin alarm	
	Low inertial injection (HR)	
	High-speed/high-response injection (HS)	
	Vent-type injection device	Note 3
Clamping	Daylight extension	
	Thermal insulation plate for platens	Note 4
	Air jet	
	Core pull circuit (pneumatic type, hydraulic type)	Note 5
	Unscrewing motor circuit	
	Die clamper	
	Upper-die ejector (hydraulic type)	Note 5
	Ejector 3-point ejection (rotary type only)	
	Ejector stroke extension (rotary type only)	
	Mold temperature control piping (for high-temperature, rotary type only)	
	Mold setup device (inside platen, outside platen)	Note 6
	Mold one-direction access (270 deg. rotation, rotary type only)	
	Mold clamper	
Electric installation/control	Other language select (Hangul/Spanish)	Note 7
	Simple centralized monitoring system LINK10	Note 8
	Centralized management system NET100	Note 9
	Heater disconnection alarm	
	Mold temperature display (with mold temperature upper/lower limit alarm)	
	Mold temperature control device (heater type)	
	Printer (with printer cable)	
	Robot interface	
Others	Cooling water flow indicator	
	Cooling water failure warning	
	Leveling pads for installation	
	Rotary warning light	
	Export specifications	Note 10
	Designated color	Note 11

Note 1: Applied for screw diameters of 35 mm or more.
Note 2: Consult us individually for specifications.
Note 3: Screw diameters of 25 mm or more are compatible.
Note 4: If an insulation board is equipped, note that both the nozzle stroke and the range of mold thickness used will be changed.
Note 5: Pump unit is separately required for the hydraulic type.
Note 6: When inside platen access device is equipped, the ejector stroke extension (option) is required.
Note 7: Consult us separately for languages other than the above. English and Chinese are provided standard.
Note 8: LINK10 has measurement value data collection, molding condition management and remote console functions.
Note 9: The NET100 has quality control and production control functions in addition to the functions of LINK10.
Note10: For export specifications, separate meetings may be necessary depending on the destination.
Note11: Designated colors, referring to color samples or Munsell codes.

Utility

■Total Power Capacity

Rotary type

Model	Injection unit	Total power capacity (kVA)
JT20RAD	20V	18.9
	20V-HR*	18.9
	20V-HS*	20.3
	55V	23.5
	55V-HR	23.5
JT40RAD	20V	19.3
	20V-HR	19.3
	20V-HS	20.6
	55V	23.8
	55V-HR	23.8
	55V-HS	24.8
	110V	26.4
	110V-HR	26.4
JT70RAD	55V	24.8
	55V-HR	24.8
	55V-HS	25.7
	110V	27.4
	110V-HR	27.4
	110V-HS	30.0
JT100RAD	55V	24.8
	55V-HR	24.8
	55V-HS	25.7
	110V	27.4
	110V-HR	27.4
	110V-HS	30.0
	230V	35.0
JT150RAD	110V	28.1
	110V-HR	28.1
	110V-HS	30.7
	230V	35.7
	230V-HS	42.5
JT220RAD (Wide)	230V	37.5
	230V-HS	44.2
	410V	56.9
	410V-HS	60.3

HR* ..... Low-inertia (option)
HS* ..... High-speed (option)

Single acting type

Model	Injection unit	Total power capacity (kVA)
JT40AD	20V	18.8
	20V-HR	18.8
	20V-HS	20.1
	55V	23.3
	55V-HR	23.3
	55V-HS	24.3
	110V	25.9
	110V-HR	25.9
JT70AD	55V	23.9
	55V-HR	23.9
	55V-HS	24.9
	110V	26.5
	110V-HR	26.5
	110V-HS	29.2
JT100AD	55V	23.9
	55V-HR	23.9
	55V-HS	24.9
	110V	26.5
	110V-HR	26.5
	110V-HS	29.2
	230V	34.2

Note1. Total power capacity is values obtained by adding the capacity of molding machine unit to the capacity of mold thermal control/hydraulic unit, wich is optional.
Note2. We recommend that the rated interrupting current of the main power supply breaker is more than 25kA at AC400V/460V.

■Capacity of Cooling Water (outline) / Capacity of Air

Rotary type

Model	Colling water capacity for barrel temperature control (m^3/h)	Compressed air pressure (MPa)	Compressed air necessity volume (NL/min)
JT20RAD	0.3	0.5	2
JT40RAD	0.3	0.5	2
JT70RAD	0.3	0.5	2
JT100RAD	0.3	0.5	2
JT150RAD	0.3	0.5	2
JT220RAD (Wide)	0.3	0.5	2

Single acting type

Model	Colling water capacity for barrel temperature control (m^3/h)	Compressed air pressure (MPa)	Compressed air necessity volume (NL/min)
JT40AD	0.3	0.5	2
JT70AD	0.3	0.5	2
JT100AD	0.3	0.5	2

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

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