

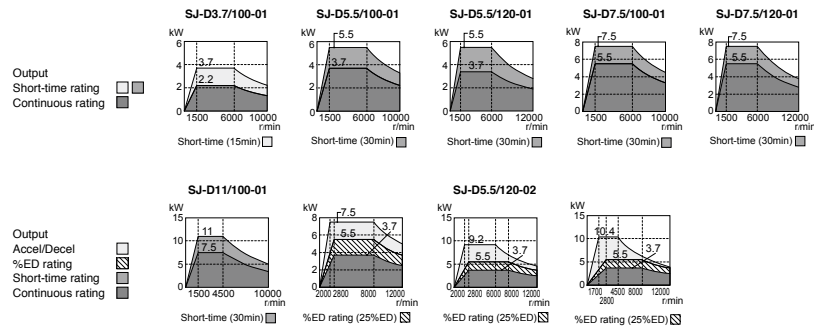
SJ-D Series Spindle Motors

SJ-D Spindle Motor 200V (Normal Specifications)

Model Number	SJ-D3.7/100-01	SJ-D5.5/100-01	SJ-D5.5/120-01	SJ-D7.5/100-01	SJ-D7.5/120-01	SJ-D11/100-01	SJ-D5.5/120-02			
Stocked Item	-	-	-	-	-	-	-			
Compatible Drive Unit	1-Axis Type MDS-E-SP-	80	80	80	160	160	160	-	160	200
	2-Axis Type MDS-E-SP2-	80, 16080(M)	80, 16080(M)	80, 16080(M)	16080(L)	16080(L)	16080(L)	-	16080(L)	-
	Multi Axis Integrated Type MDS-EM-SPV3-	-	100xx	100xx	100xx	100xx	16080	100xx	16080	200xx
	Regenerative Resistor Type MDS-EJ-SP-	80	100	100	120	120	160	-	-	-
Standard Output During Accel/Decel (kW)	3.7	5.5	5.5	7.5	7.5	11	7.5	9.2	10.4	
Actual Accel/Decel Output (kW) (*2)	4.44	6.6	6.6	9	9	13.2	9	11.04	12.48	
Base Rotation Speed (r/min)	1500	1500	1500	1500	1500	1500	2800			
Max. Rotation Speed in Constant Output Range (r/min)	6000	6000	6000	6000	6000	4500	8000			
Maximum Rotation Speed (r/min)	10000	10000	10000	10000	10000	10000	12000			
Continuous Rated Torque (N·m)	14.0	23.6	23.6	35.0	35.0	47.7	12.6			
Motor Inertia (x10 ⁻⁴ kg·m ²)	0.0074	0.013	0.013	0.023	0.023	0.031	0.0074			
Degree of Protection (The Shaft-Through Portion is Excluded)	IP54	IP54	IP54	IP54	IP54	IP54	IP54			
External Dimensions (Flange Type) mm	174 SQ x 327	174 SQ x 417	174 SQ x 417	204 SQ x 439	204 SQ x 439	204 SQ x 489	174 SQ x 327			
Flange Fitting Diameter (mm)	ø150	ø150	ø150	ø180	ø180	ø180	ø150			
Shaft Diameter (mm)	ø28	ø28	ø28	ø32	ø32	ø48	ø28			
Weight (kg)	26	39	39	53	53	64	26			

Notes:

- Only the combination designated in this manual can be used for the motor and drive unit. Always use the designated combination.
- Actual acceleration/deceleration output is 1.2-fold of "Standard output during acceleration/deceleration" or "Short time rated output".

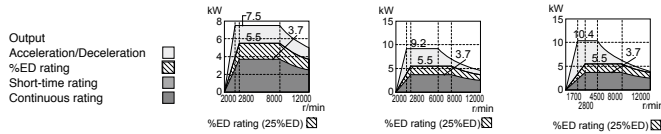


SJ-D Spindle Motor 200V (Hollow Shaft Specifications)

Model Number	SJ-D5.5/120-02T-S		
Stocked Item	-		
Compatible Drive Unit	1-Axis Type MDS-E-SP-	-	200
	2-Axis Type MDS-E-SP2-	-	16080(L)
	Multi Axis Integrated Type MDS-EM-SPV3-	100xx	16080
	Regenerative Resistor Type MDS-EJ-SP-	-	-
Standard Output During Accel/Decel (kW)	7.5	9.2	10.4
Actual Accel/Decel Output (kW) (*2)	9	11.04	12.48
Base Rotation Speed (r/min)	2800		
Max. Rotation Speed in Constant Output Range (r/min)	8000		
Maximum Rotation Speed (r/min)	12000		
Continuous Rated Torque (N·m)	12.6		
Motor Inertia (x10 ⁻⁴ kg·m ²)	0.0075		
Degree of Protection (The Shaft-Through Portion is Excluded)	IP54		
External Dimensions (Flange Type) mm	174 SQ x 327		
Flange Fitting Diameter (mm)	ø150		
Shaft Diameter (mm)	ø28		
Weight (kg)	24		

Notes:

- Only the combination designated in this manual can be used for the motor and drive unit. Always use the designated combination.
- Actual acceleration/deceleration output is 1.2-fold of "Standard output during acceleration/deceleration" or "Short time rated output".



SJ-DJ Spindle Motor 200V (Compact and Lightweight Specifications)

Model Number	SJ-DJ5.5/100-01	SJ-DJ5.5/120-01	SJ-DJ7.5/100-01	SJ-DJ7.5/120-01	SJ-DJ11/100-01	SJ-DJ15/80-01
Stocked Item	-	-	-	-	-	-
Compatible Drive Unit	1-Axis Type MDS-E-SP-	80	80	160	160	200
	2-Axis Type MDS-E-SP2-	16080(M)	16080(M)	16080(M)	16080(L)	-
	Multi Axis Integrated Type MDS-EM-SPV3-	100xx	100xx	100xx	100xx	200xx
	Regenerative Resistor Type MDS-EJ-SP-	100	100	120	120	160
Standard Output During Acceleration/Deceleration (kW)	5.5	5.5	7.5	7.5	11	15
Actual Accel/Decel Output (kW) (*2)	6.6	6.6	9	9	13.2	18
Base Rotation Speed	Short-time (r/min)	1500	1500	1500	1500	1500
	Continuous (r/min)	2000	2000	2000	2000	2000
Maximum Rotation Speed in Constant Output Range (r/min)	4500	4500	4500	4500	4500	4000
Maximum Rotation Speed (r/min)	10000	12000	10000	12000	10000	8000
Continuous Rated Torque (N·m)	17.7	17.7	26.3	26.3	35.8	52.5
Motor Inertia (kg·m ²)	0.0074	0.0074	0.0013	0.013	0.023	0.031
Degree of Protection (The Shaft-Through Portion is Excluded)	IP54	IP54	IP54	IP54	IP54	IP54
External Dimensions (Flange Type) mm	174 SQ x 327	174 SQ x 327	174 SQ x 417	174 SQ x 417	204 SQ x 439	204 SQ x 489
Flange Fitting Diameter (mm)	ø150	ø150	ø150	ø150	ø180	ø180
Shaft Diameter (mm)	ø28	ø28	ø28	ø28	ø32	ø48
Weight (kg)	26	26	39	39	53	64

- Notes:
1. Only the combination designated in this manual can be used for the motor and drive unit. Always use the designated combination.
 2. Actual acceleration/deceleration output is 1.2-fold of "Standard output during acceleration/deceleration" or "Short time rated output".
 3. %ED is a load time ratio of operating time relative to a 10-minute cycle time. At 25%ED, for example, the operating time is 2.5 minutes and nonoperation time is 7.5 minutes of a 10-minute cycle time.

