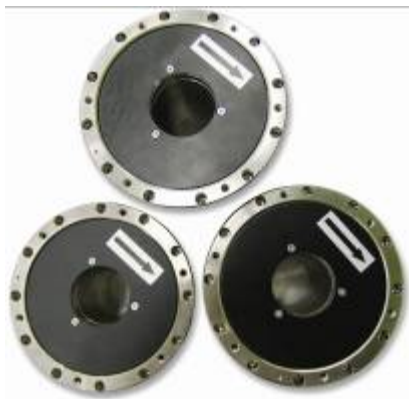


Direct Drive

Rotary Motor

JTR15 Series

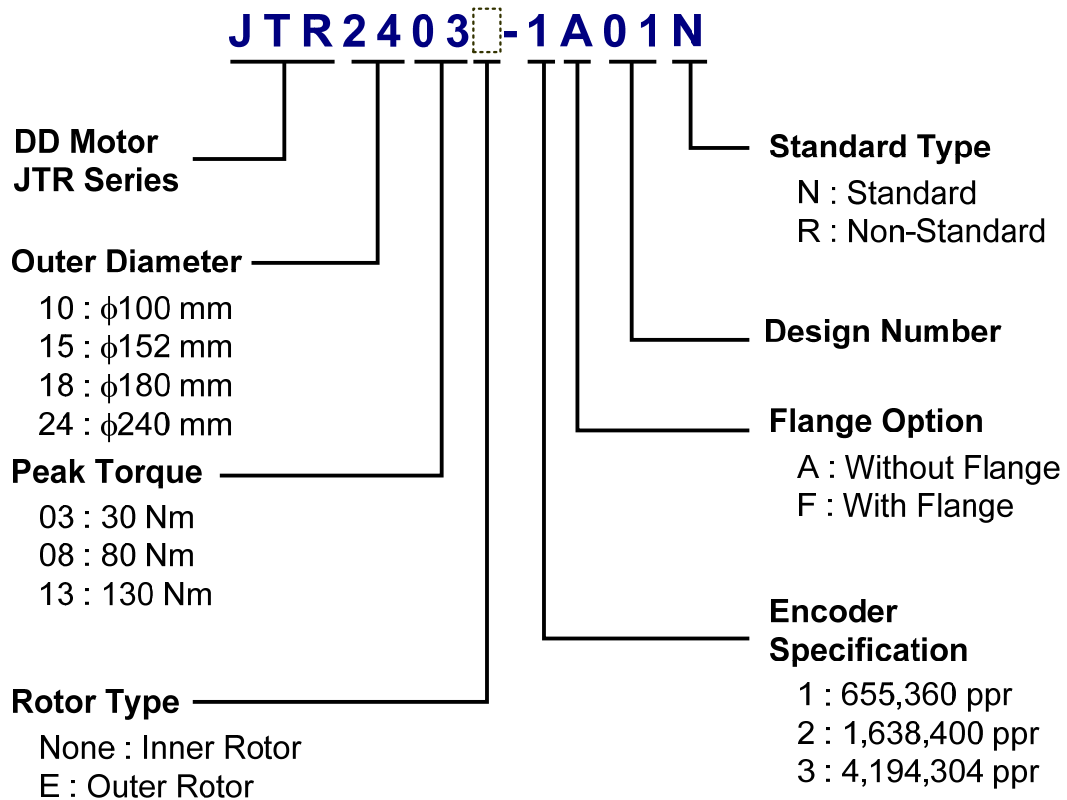
JTR24 Series



Justek, Inc.

MODEL CODE

JTR Series Direct Drive Motor



MODEL : JTR15□□E

A. PERFORMANCE DATA

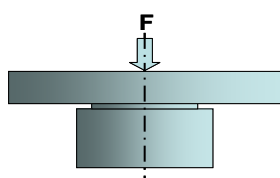
PERFORMANCES	UNIT	JTR1501E	JTR1503E	JTR1505E	JTR1508E
Peak Torque	N·m	15	30	50	80
Continuous Torque	N·m	5	10	17	27
Continuous Current	A_{rms}	1.8	3.7	3.7	3.7
Peak Current	A_{rms}	5.5	11.1	11.1	11.1
Torque Constant	$N\cdot m/A_{rms}$	2.9	2.9	4.9	7.8
Motor Constant	$N\cdot m / W^{1/2}$	0.8	1.7	1.9	2.5
Thermal Resistance	$^{\circ}C/W$	2.2	2.3	1.1	0.7
Max. Speed*	rps	5	5	5	4.5
Resolution**	ppr	655,360	655,360	655,360	655,360
Accuracy*	arcsec	± 30	± 30	± 30	± 30
Repeatability*	arcsec	± 2	± 2	± 2	± 2
Axial Run-out (no-load)	μm	20	20	20	20
Radial Run-out (no-load)	μm	40	40	40	40
Max. Axial Load	kg	530	530	530	530
Max. Moment Load	N·m	96	96	96	96
Rotor Inertia	$kg\cdot m^2$	0.012	0.021	0.024	0.029
Motor Weight	kg	6.4	9.8	12.2	15.6

* Dependent on the encoder resolution.

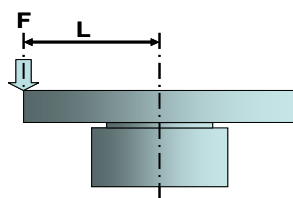
** Can be up to 4,194,304 ppr.

■ Axial / Moment Load

When F is the applied external force,



Axial Load = $F + \text{Load Weight}$
Moment Load = 0



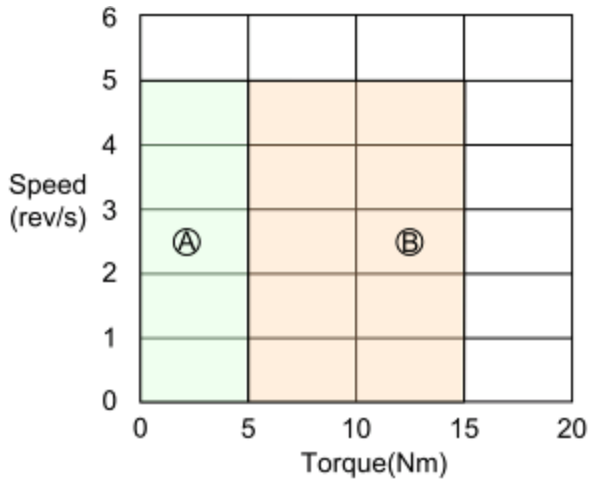
Axial Load = $F + \text{Load Weight}$
Moment Load = $F \times L$



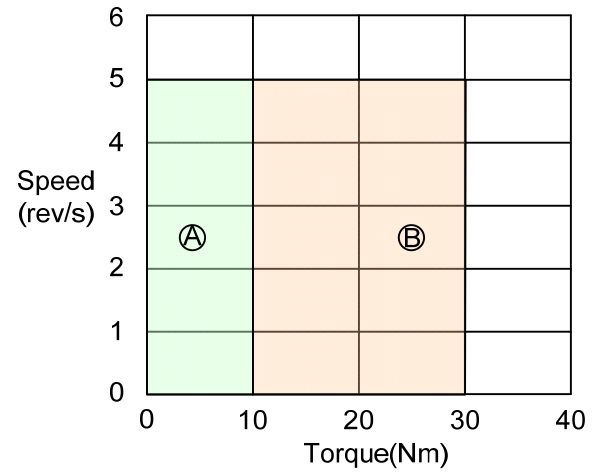
Specifications are subject to change without notice.

B. PERFORMANCE CURVE

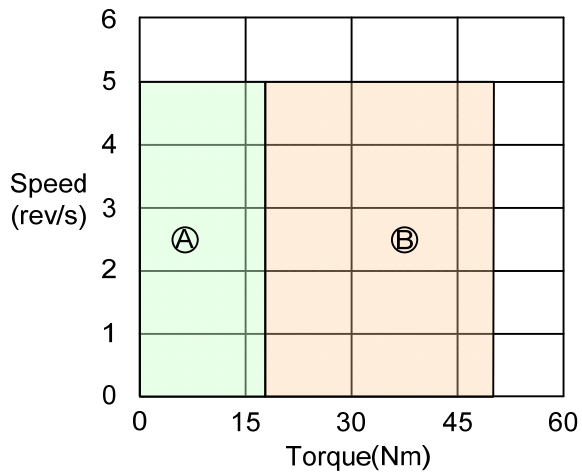
JTR1501E



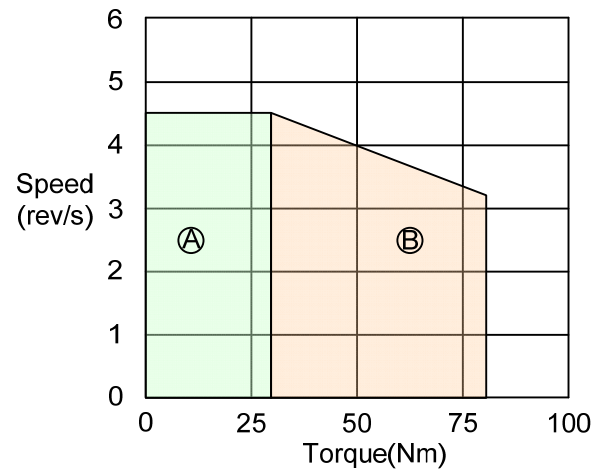
JTR1503E



JTR1505E



JTR1508E

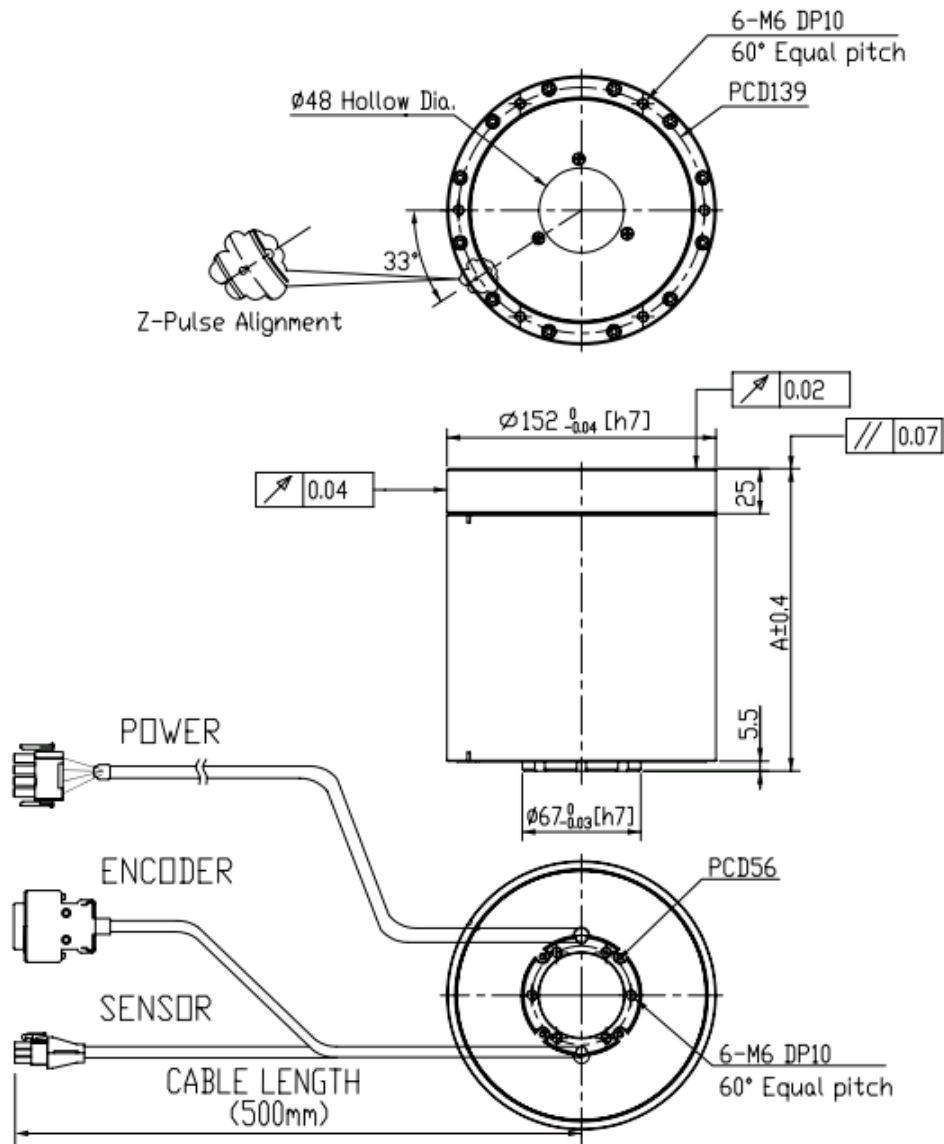


(A : Continuous Duty Zone , B : Intermittent Duty Zone)

Note : In case that supply input voltage of the JSMD servo driver is AC 220V.



C. MOTOR DIMENSIONS



Model	JTR1501E	JTR1503E	JTR1505E	JTR1508E
A(mm)	85	117	139	171

Specifications are subject to change without notice.

MODEL : JTR24□□

B. PERFORMANCE DATA

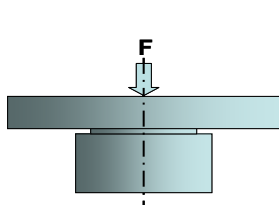
PERFORMANCES	UNIT	JTR2403	JTR2408	JTR2413	JTR2424
Peak Torque	N·m	30	80	132	240
Continuous Torque	N·m	10	27	44	80
Continuous Current	A_{rms}	3.1	4.2	4.0	8
Peak Current	A_{rms}	9.3	12.6	12.0	24
Torque Constant	$N·m/A_{rms}$	3.3	6.4	11.0	11.0
Motor Constant	$N·m / W^{1/2}$	1.2	2.3	3.3	1.6
Thermal Resistance	$^{\circ}C/W$	0.89	0.52	0.39	-
Max. Speed*	rps	5	4.5	2.8	2.8
Resolution**	ppr	655,360	655,360	655,360	655,360
Accuracy*	arcsec	± 30	± 30	± 30	± 70
Repeatability*	arcsec	± 2	± 2	± 2	± 2
Axial Run-out (no-load)	um	20	20	20	20
Radial Run-out (no-load)	um	40	40	40	40
Max. Axial Load	kg	410	410	410	410
Max. Moment Load	N·m	80	80	80	80
Rotor Inertia	$kg·m^2$	0.0092	0.0143	0.0203	0.0405
Motor Weight	kg	10.7	14.7	19.7	32.2

* Dependent on the encoder resolution.

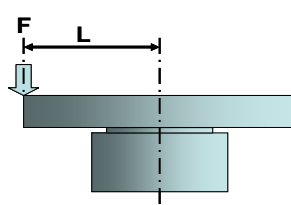
** Can be up to 4,194,304 ppr.

■ Axial / Moment Load

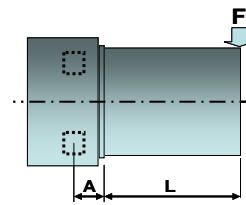
When F is the applied external force,



Axial Load = $F + \text{Load Weight}$
Moment Load = 0



Axial Load = $F + \text{Load Weight}$
Moment Load = $F \times L$



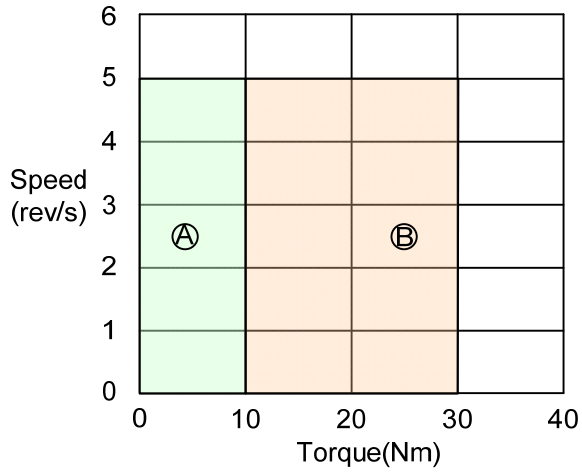
Axial Load = $F + \text{Load Weight}$
Moment Load = $F \times (A+L)$

	A (mm)
JTR2403	23
JTR2408	33.5
JTR2413	68.5

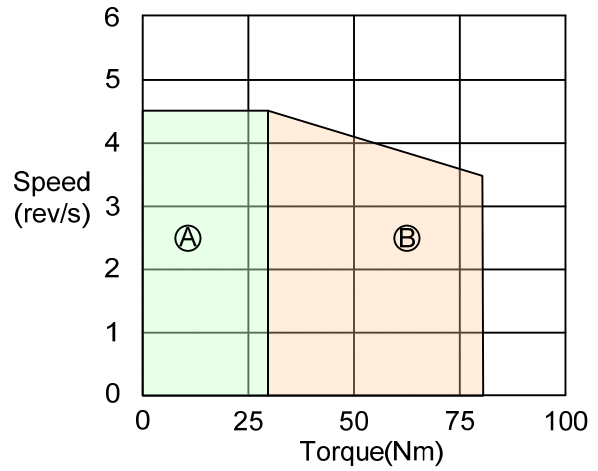
Specifications are subject to change without notice.

B. PERFORMANCE CURVE

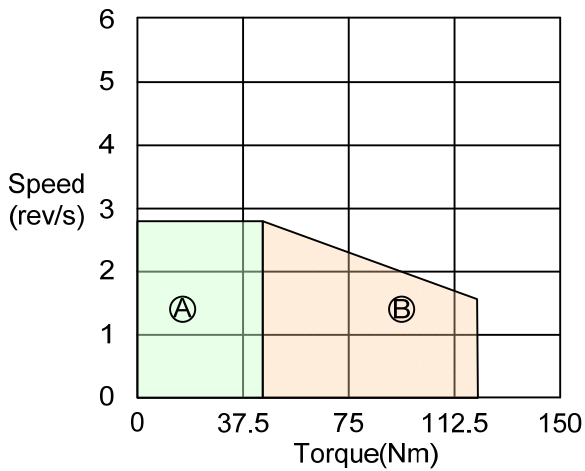
JTR2403



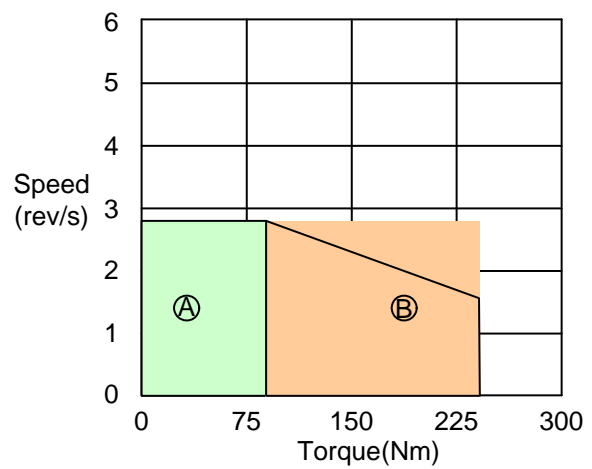
JTR2408



JTR2413



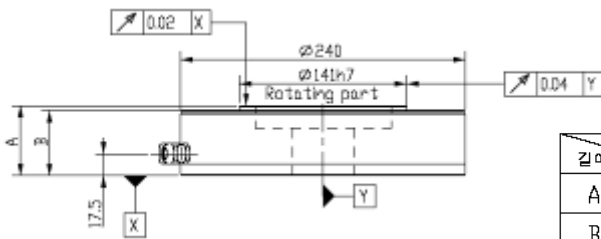
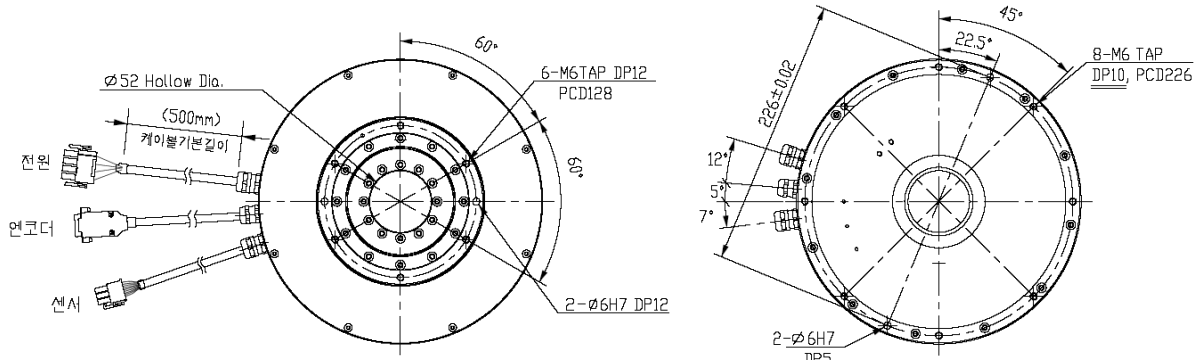
JTR2424



(A : Continuous Duty Zone , B : Intermittent Duty Zone)

Note : In case that supply input voltage of the JSMD servodriver is AC 220V.

C. MOTOR DIMENSIONS



길이 Model	JTR2403	JTR2408	JTR2413
A	59±0.4	80±0.4	105±0.4
B	54.8	75.8	100.8

JTR2424

