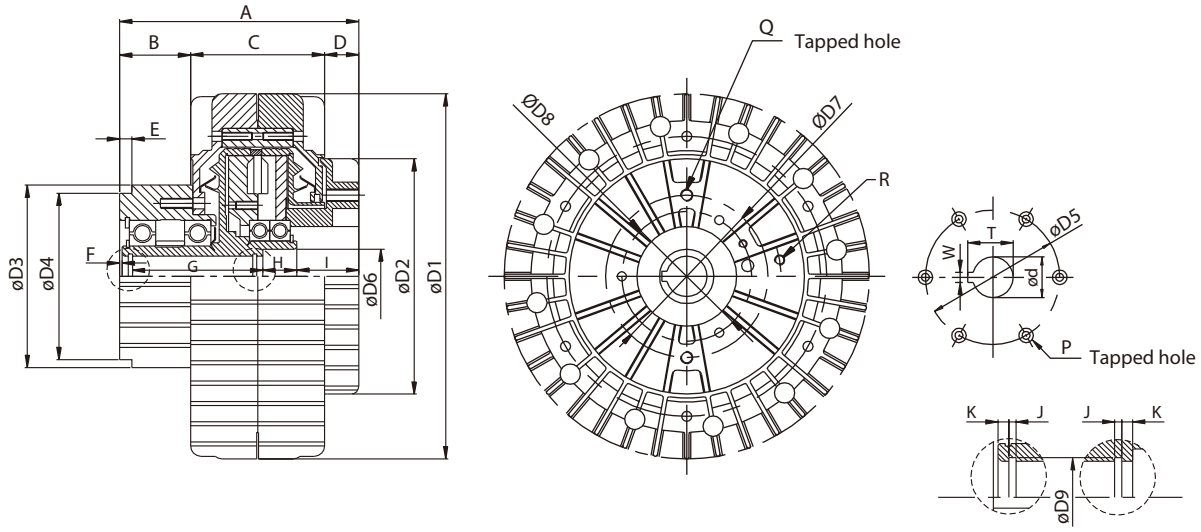
MPM Series

Hollow-Shaft Magnetic Particle Clutch



MODEL		MPE2S5AA	MPE005AA	MPE010AA
Rated Torque (Nm)		25	50	100
Capacity DC24V @ 75°C	Current (A)	1.1	1.4	2
	Power (W)	26.4	33.6	48
Inertia (kgcm²)	Input	$1.2*10^{-3}$	$2.6*10^{-2}$	$7.0*10^{-2}$
	Output	$2.3*10^{-3}$	$5.8*10^{-3}$	$1.5*10^{-2}$
Max. Speed (r/min)		1800		
External Dimensions	A	118	141	166
	B	35	47	49.5
	C	66	74	100
	D	17	20	16.5
	E	-	-	30
	F	1.3	3	4
	G	69	103	122
	H	17	-	-
	I	30.5	35	40
	J	1.1	1.3	107
	K	4	5	6.7
	D1	180	220	275
	D2	116	140	177
	D3	-	-	130
	D4	90	110	125
	D5	80	95	110
	D6	27	-	-
	D7	80	95	110
	D8	64	77	95
	D9	21	31.4	37
	d	20	30	35
	L	M6*12L	M8*15L	M10*20L
	R	M64*10L	M6*12L	M6*12L
	Q	M6*12L	M8*12L	M10*18L
Keyway	W	5	7	10
	T	22.3	33	38.8

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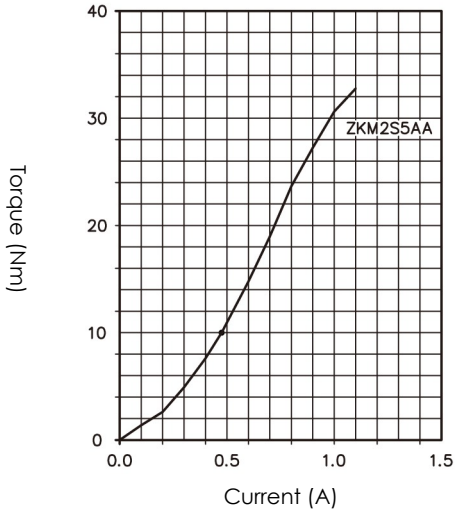
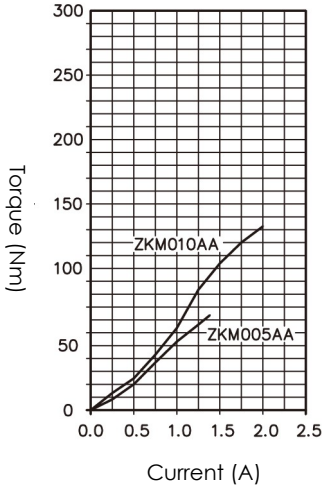
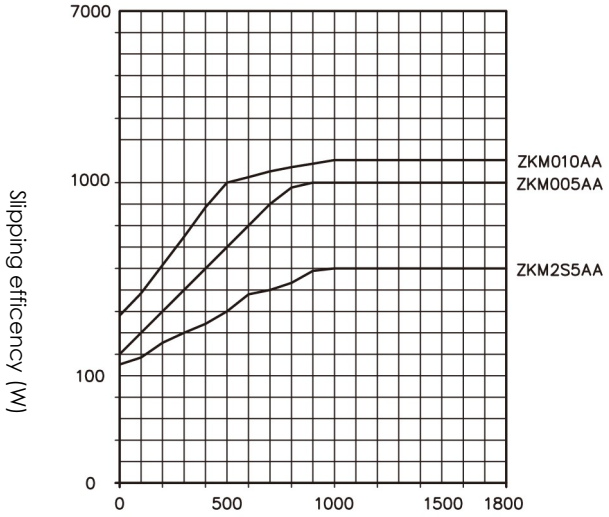
Standard Torque

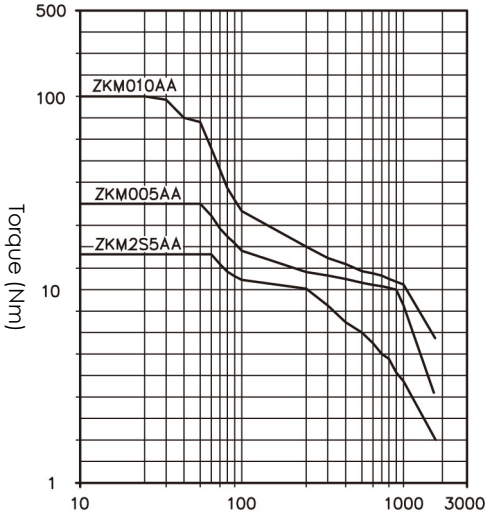




Allowable slipping efficency

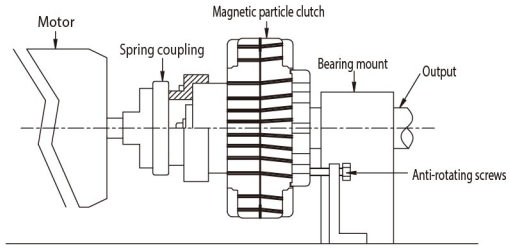


Allowable slipping Torque

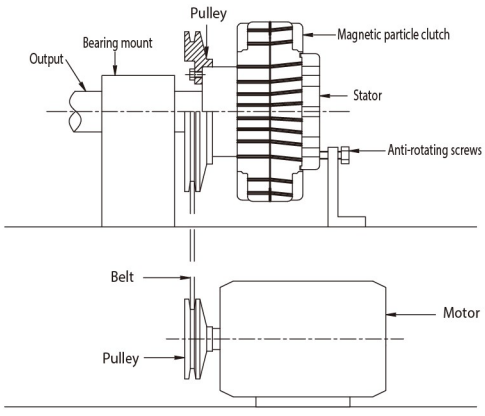


Example of installation

Shaft Drive



Belt Drive



1. To avoid over loads on the bearing inside the clutch, please keep the gap between stator and bracket, please do not lock it toward the shaft.
2. The spring coupling must be used to main contact between the clutch shaft and the load shaft. In addition, the concentricity and the right angle of shaft must be maintained with the allowable range for spring coupling.
3. Please do not over load the bearing inside the clutch when belt drives.
4. Due to the the rotated housing, please use an airy metal net to cover the clutch body.