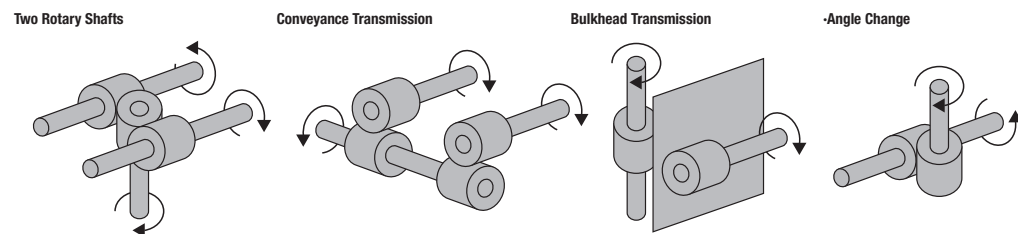


# TM Magnetic Transmission Drive

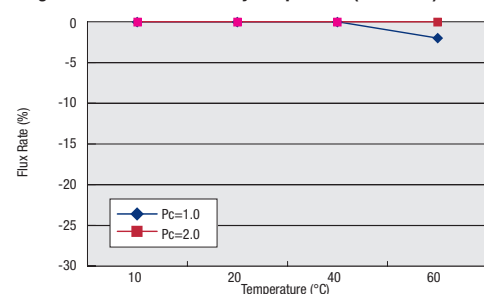
Parts for Non-Contact Magnetic Force Transmission, *continued*

## Example of Use

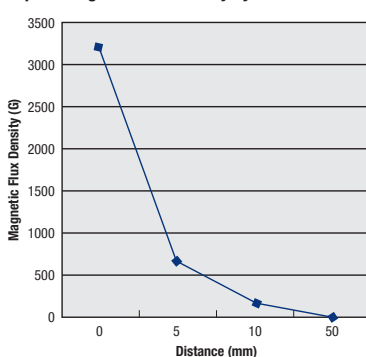


## Design Data

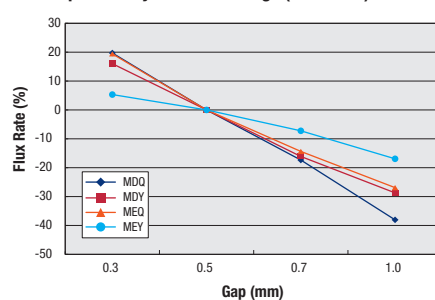
Magnetic Flux Variation Rate by Temperature (Reference)



Space Magnetic Flux Density by Distance



Torque Rate by Distance Change (Reference)



## Cautions

- No alteration is available for the magnet parts.
- Strong impact may cause damage and lead to deterioration in magnetic force.
- The following objects are negatively affected by strong magnetic field.  
Electric devices such as cell-phones, PCs and watches. Medical electronics such as pacemakers, etc.
- For its non-contact nature, not suitable for extremely high-speed rotation. (Maximum rotational speed 1500 rpm)

# TM Magnetic Transmission Drive

Standard / Economy Type

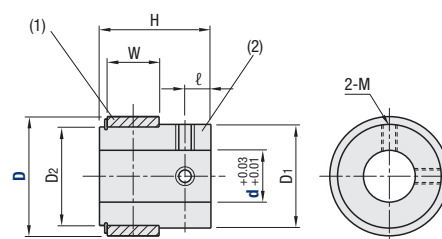
Features: Usable in vacuum

## TM Magnetic Transmission Drive – Standard Type



RoHS 10

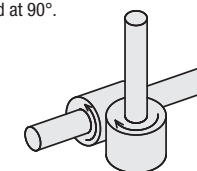
Type	Combined Type	Material		Surface Treatment	
		(1) Magnet Section	(2) Holder Section	(1) Magnet Section	(2) Holder Section
Standard Type	Perpendicular Type	Neodymium Sintered Magnet	5056 Aluminum Alloy	Out-gassing Prevention Treatment	Corrosion Resistant Anodizing
	Parallel Type				



Ⓜ Material Speed 1500rpm Ⓜ Operating Temperature: 0-60°C

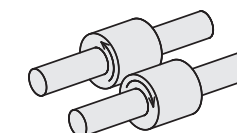
### Perpendicular Type

Force is transmitted with TM Magnets arranged at 90°.



### Parallel Type

Force is transmitted with TM Magnets arranged in parallel.



Part Number	Type	D	d				D <sub>1</sub>	D <sub>2</sub>	H	W	l	M	*Allowable Torque (Nm)	
			6	8	10	12							Standard Torque	MDY
Perpendicular Type MDQ		16	6	8			13	12	19.5	8	5	M3	0.013	0.032
		22		8	10	12	18	17	23.5	12			0.050	0.105
Parallel Type MDY		26			10	12	15	22	20	25.5	14		0.068	0.186
		35			12	15	20	32	29	34.0	22		0.245	0.558

- ⊗ Perpendicular Type and Parallel Type cannot be used in combination.
- ⊗ Cannot be combined with other manufacturer's products. Please be sure to order in sets of the compatible product types.

\* Allowable Torque values are for reference at 0.5mm gap.

Part Number Example	Part Number	d
	MDQ22	8
	MEQ35	20

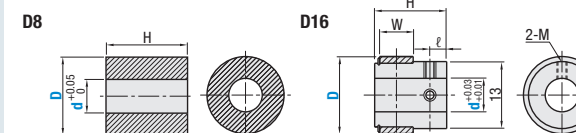
Features: This type is made of plastic and more economical than the Standard Type. Suitable for use in normal atmosphere. Equivalent allowable torque to the Standard Type.

## TM Magnetic Transmission Drive – Economy Type

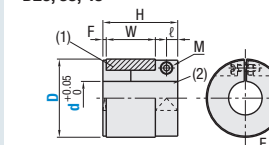


RoHS 10

Type	Combined Type	Material		Surface Treatment	
		(1) Magnet Section	(2) Holder Section	(1) Magnet Section	(2) Holder Section
Standard Type	Perpendicular Type	Neodymium Bonded Magnet	Polyacetal (D16: 5056 Aluminum Alloy)	Electrostatic Paint	—
	Parallel Type				



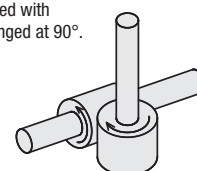
D26, 35, 45



Ⓜ Material Speed 1500rpm Ⓜ Operating Temperature: 0-60°C

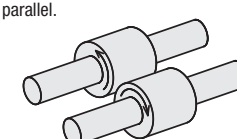
### Perpendicular Type

Force is transmitted with TM Magnets arranged at 90°.



### Parallel Type

Force is transmitted with TM Magnets arranged in parallel.



Part Number	Type	D	d				H	W	l	Lock Screw (D16: Set Screw)		F	E	*Allowable Torque (Nm)	
			5	6	8	10				M	Tightening Torque (Nm)			MEQ	MEY
Perpendicular Type MEQ		8	5			8	—	—	—	—	—	—	—	0.0058	0.0078
		16		6	8	19.5	8	—	—	M3	1.5	—	—	0.015	0.021
Parallel Type MEY		26			12	15	25.5	14	5	M2.5	0.333	1.5	11.5	0.098	0.167
		35			15	20	33.5	22	—	M3	0.422	—	16	0.221	0.515
		45			20	45	30	6.35	M5	0.784	2.0	20.5	0.804	—	

- ⊗ Perpendicular Type and Parallel Type cannot be used in combination.
- ⊗ Cannot be combined with other manufacturer's products. Please be sure to order in sets of the compatible product types.
- Ⓜ D diameter 45 is available for Perpendicular Type only.
- Ⓜ D8 does not have (2) holder section. Use adhesive to fix.
- Ⓜ The holder section of D16 is tightened with a set screw. (Set screw included)

\* Allowable Torque values are for reference at 0.5mm gap.

Part Number Example	Part Number	d
	MDQ22	8
	MEQ35	20