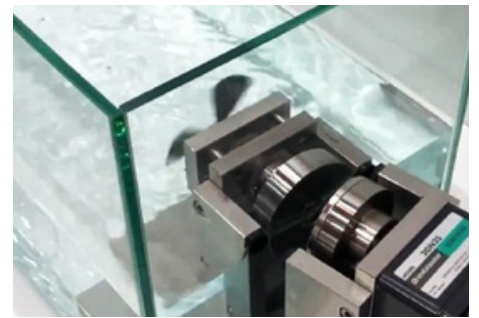
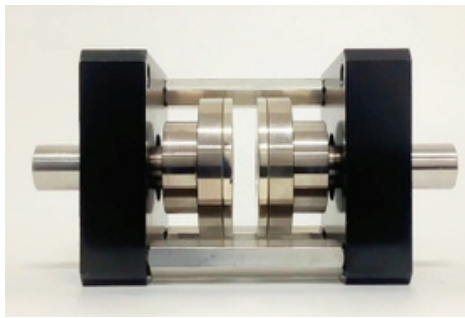
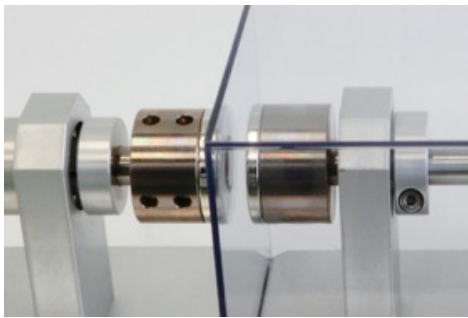


# NON-CONTACT MAGNETIC COUPLINGS

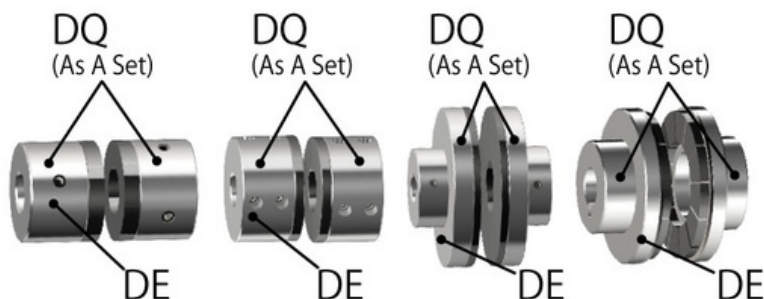
## Non-Contact Technology Enables Clean, Quiet, and Safe Power Transmission

- No particle generation caused by contact surface wear
- Barrier transmission enables seal-less structures
- Low noise and vibration through non-contact power transmission
- High tolerance for angular and eccentric misalignment simplifies assembly
- Magnetic slip under overload helps improve safety



## Typical Industries for Magnetic Couplings

- Semiconductor Manufacturing Equipment
- Pharmaceutical, Biotechnology, and Food Processing
- Equipment Medical Devices
- Pumps, Fluid Handling, and Sealed Systems
- Chemical Processing
- Collaborative and Service Robots



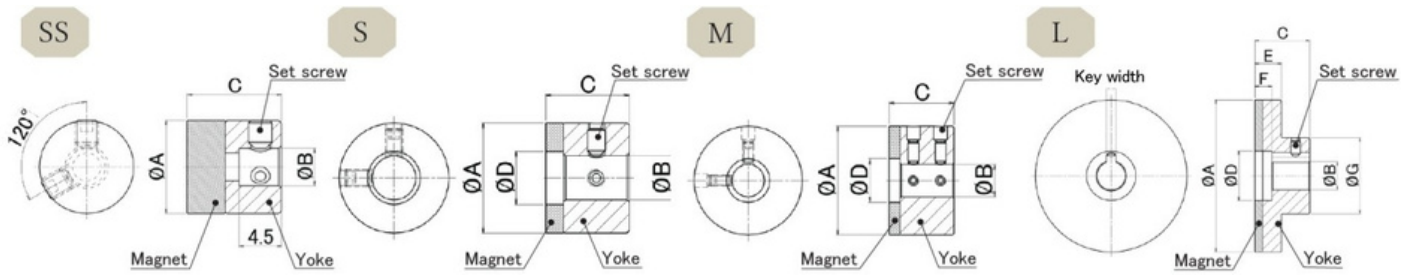
Magnetic Couplings are mechanical devices that transmit torque between an input shaft and an output shaft through the magnetic force of permanent magnets, without physical contact. Because power is transmitted through the attractive and repulsive forces between magnets rather than a direct mechanical connection, there is no contact surface wear and no lubrication is required. As a result, Magnetic Couplings provide low-noise, low-vibration operation and reduce maintenance requirements. In general, Magnetic Couplings transmit torque at a 1:1 speed ratio, with the input and output shafts rotating at the same speed. In addition, when the transmitted torque exceeds the allowable limit, magnetic synchronization is lost and the coupling automatically slips. This built-in torque-limiting function helps protect motors and machinery from overload conditions.

Magnet Material : Neodymium

Magnet Surface Treatment :

Magnets - Electrolytic Ni plating

Yoke - Electroless Ni plating (SC steel)



**Standard Stock Item**

Model (Set)	Model (Individual)	Reference drawing	Dimensions										Unit weight (g)	Maximum transmissible torque (N·m) and Air gap			
			A	B (Dimensions)	B (Tolerance)	C	D	E	F	G	Key width (Dimensions)	Key width (Tolerance)		Set screw	1 mm	5 mm	10 mm
DQ1010-02	DE10-02	SS	10	4	+0.018 0	10	-	-	-	-	-	-	M2.5	6	0.031	0.007	0.0016
DQ2020-08	DE20-08	S	20	8	+0.022 0	14	10	-	-	-	-	-	M4	27	0.32	0.031	0.003
DQ2525-08	DE25-08		25	10		19	12	-	-	-	-	-	M4	59	0.727	0.111	0.014
DQ3030-08	DE30-08		30	12	+0.027 0	19	14	-	-	-	-	-	M4	85	1.37	0.281	0.044
DQ3535-08	DE35-08	M	35	12	+0.027 0	24	16	-	-	-	-	-	M4	151	2.215	0.568	0.112
DQ4040-08	DE40-08		40	12		24	16	-	-	-	-	-	M4	206	3.511	1.046	0.244
DQ5050-08	DE50-08	L	50	12	+0.027 0	24	20	14	9	30	4	+0.1 0	M4	231	6.45	2.454	0.751
DQ6060-08	DE60-08		60	15		29	26	14	9	40	5		M5	386	9.929	4.477	1.648
DQ7070-08	DE70-08		70	15		29	26	14	9	40	5		M5	497	15.486	7.388	3.125

**Made-to-Order Item**

Model (Set)	Model (Individual)	Reference drawing	Dimensions										Unit weight (g)	Maximum transmissible torque (N·m) and Air gap			
			A	B (Dimensions)	B (Tolerance)	C	D	E	F	G	Key width (Dimensions)	Key width (Tolerance)		Set screw	1 mm	5 mm	10 mm
DQ4545-08	DE45-08	L	45	12	+0.027 0	24	20	14	9	30	4	+0.1 0	M4	191	4.595	1.598	0.434
DQ5555-08	DE55-08		55	15		29	26	14	9	40	5		M5	337	7.621	3.178	1.167
DQ6565-08	DE65-08		65	15		29	26	14	9	40	5		M5	439	12.614	5.942	2.346
DQ7575-08	DE75-08		75	15		29	26	14	9	40	5		M5	558	-	9.309	4.165
DQ8080-08	DE80-08		80	15		29	26	14	9	40	5		M5	624	-	10.589	4.755
DQ100100-12	DE100-12		100	25	+0.033 0	39	42	18	15	60	8	+0.2 0	M6	1199	-	25.317	10.602
DQ120120-16	DE120-16		120	35	+0.039 0	41	54	18	17	70	10		M8	1653	-	47.343	18.636
DQ150150-18	DE150-18		150	50	+0.039 0	51	76	18	21	100	16		M12	3100	-	99.455	44.934

The above product data are values measured under ambient temperature conditions.