"MagTran" is a preferred choice because of clean and maintenance free new mechanism

For the hitech industry that essentially requires clean drive transmission, this has been the most difficult problem so far. However, it is now solved with the breathtaking mechanism of contactless transmission.

It is "Dust free", it has "Long operating life", and it produces "Low noise". Besides, even if any abnormal load applies, it doesn't destry our indigneous mechanism. It will help you in imrpoving productivity during the manufacturing processes in a wide range of areas such as electronic components, chemistry, healthcare, and food from vacuum to air based manufacturing processes.

Extremely silent

the conventional gear and belt based transmission mechanism.
This is possible only because it is contactless. It offers clean and comfortable environment in the manufacturing process. Extremely low dust generation

In this manner, we have exponentially reduced the fine dust (particles) that generate during material transfer in the

Extremely low gas generation

We have adopted a special surface treatment process that generates very small gas in not only in air, but also in vacuum. Our indigenous treatment has made it possible to use it at 10-5 pa



Torque limiter function

When an abnormal load is applied, two magnets will separately undergo idle running and they will work as torque limiter. Therefore, there will not be any damage. Besides, because it is contactless, we have been able to exponentially prolong the maintenance cycle compared to the conventional gear transmission mechanism.

Low cost

For fastening the special magnet, we have adopted a Performance is not affected at all even if "Vacuum - Air" is repeated. Therefore, it doesn't require the conventional high

Launch of a new lineup of toothless gear wheel "MagTran" that would expand its applications

We have been able to significantly reduce the amount of magnet used and making it lightweight and reducing the cost.

So far, we had the lineup of products for orthogonal spindles and parallel spindles. Our new lineup can support intersecting spindles too, and adjustment of clearance can also be

Contactless bevel gear wheel

easily done. Besides, you can also use it for coupling.

Contactless bevel gear wheel for intersecting spindles offers 90° drive transmission in a contactless manner. As for fine tuning of torque, there is a fastening screw attached to the holder with which you can freely change the clearance.



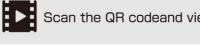


Contactless coupling

In the case of coupling, even if there is a partition wall in between, transmision is possible without any problem as long as it is a nonmagnetic material. Even when using it while churning, you can use it without doing hole drilling and sealing. When misliangment has occurred between the spindles, there will not be any damage because it is a

















State-of-the-art cleaning Tremendous cost performance



Toothless gear wheel



Contactless bevel gear whe Contactless coupling

This product comes with one year warranty after it is shipped by the manufacturer. However, the warranty doesn't cover the cases where the product is used in a manner not specified in the specifications or when the product is handled in a manner not compliant with the caution.

- Caution!

 This product forms a stable magnetic field. However, bringing it closer to items such as clocks that are easily affected by magnetism may cause malfunction.

 Specifications describe the performance of the product itself. When using the product, please use it after conducting structural study at the design stage.

 When using the product at a place where there cannot be any effect of magnetism, conduct technical review beforehand and take the appropriate measures.

 This product is a permanent magnet made by extremely strong and special magnetization. When using it in the environment outside the scope of specifications, or when in the environment where ionization current is generated, magnetic operouse force may weaken or it may be lost.

 This product comes with the highest performance warranty as a set. There is no performance warranty when it is used in combination with another product.

 Description of standard products given in the catalog is on the basis of use under general environment. Please consult us beforehand when using under a special environment and take appropriate measures.

 This product is made with sintered material as the base. Dropping the product, other impact, or unreasonable external force may damage the product. Please take adequate precautions when handling and storing the product. Besides, do not use the product where there are any "cracks" in it.

- This product is widely sold as a part because it forms the "Elemental technology". When using the product, it is recommended to consider "Application patents etc." of other companies and conduct prior survey to ensure that it doesn't violate such patents etc.

Kara Consulting Inc.

Win Aoyama 942 2-2-15 Minami Aoyama Minatoku Tokyo 107-0062

TEL +81.80.4140.8670

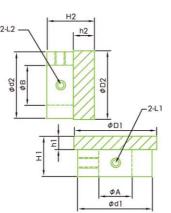
E-mail: atakan@me.com URL: http://magnetic-transmission.com

Contactless bevel gear wheel

High torque type



Dimension table

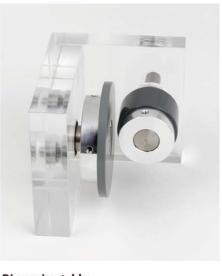


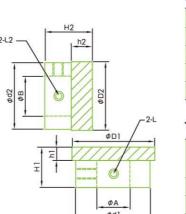


Clearance(mm) Model (set)	0.3	0.5	0.7	1
FDS6635	9.3	8.5	7.9	7.1
FDS4035	3.8	3.5	3.1	2.7
FDS3126	2.2	2.0	1.8	1.6
FDS3116	0.79	0.71	0.64	0.53

Dimension value Model (set)	φD1	φD2	Н1	H2	φd1	φd2	h1	h2	1	ΦA +0.0	3		ΦB +0.0	13	L1 Fastening screw	L2 Fastening screw
FDS6635	66	35	15	34	66	32	5	22	12	15	1-1	10	12	15	M5	M4
FDS4035	40	35	15	34	30	32	5	22	10	12	15	10	12	15	M4	M4
FDS3126	31	26	15	25.5	28	22	5	14	8	10	12	10	12	15	M4	МЗ
FDS3116	31	16	15	16	28	15	5	8	8	10	12	6	8	_	M4	МЗ
				1 10000						1000						

Cost performance type





Magnet material	Neodymium bonded magnet
Holder material	Aluminum (A5056)
Magnet surface treatment	Electrodeposition coating
Bonding agent used	Epoxy bonding agent
Heatproof temperature	60°C

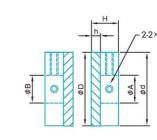
Transmission to	orque			(kgf·cm)
Clearance (mm) Model (set)	0.3	0.5	0.7	1
FBS6635	6.3	5.7	5.3	4.8
FBS4035	2.2	2	1.8	1.5
FBS3126	0.8	0.7	0.66	0.6
FBS3116	0.35	0.30	0.26	0.20

Dimension tabl	le															(mm
Dimension value Model (set)	φD1	φD2	Н1	H2	φd1	φd2	h1	h2		ΦA +0.0	3	19	ΦB ^{+0.0}	3	L1 Fastening screw	L2 Fastening screw
FBS6635	66	35	15	34	66	32	5	22	12	15		10	12	15	M5	M4
FBS4035	40	35	15	20	30	30	5	10	10	12	15	10	12	15	M4	M4
FBS3126	31	26	15	18	28	25	5	8	8	10	12	10	12	15	M4	M4
FBS3116	31	16	1.5	16	28	1.5	5	8	8	10	12	6	8	_	M4	M3

Contactless coupling

High torque type





		7 Harristani (710000)						
Magnet surface tr	eatmer	nt Nick	Nickel plating					
Bonding agent us	ed	Epo	xy bond	ding ag	ent			
Heatproof tempera	ature	60°	0					
ransmission	torque	9			(kgf • cm			
Clearance(mm) Model (set)	torque	2	3	4	(kgf·cm			

Neodymium sintered magnet

Neodymium sintered magnet

Aluminum (A5056)

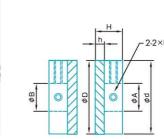
Dimension value				7.5	40 Theret	.003		.0.03	(m
Model (set)	φD	Н	φd	h	ΦА	+0.03 +0.01	φВ	+0.03 +0.01	Fasten
FDS66W	66	15	66	5	12	15	12	15	M5
FDS40W	40	15	40	5	12	15	12	15	M5
FDS31W	31	15	28	5	10	12	10	12	MZ

16 11 5.6 4.2 3.0 FDS31W 6.9 4.2 2.3 1.1 0.6

Specifications

Cost performance type





	t	Holder material		Alur	minum (A5056	3)
	D D	Magnet surface tr	Magnet surface treatment				
	6 6	Bonding agent use	ed	Epo	xy bond	ling age	en
	ļ	Heatproof tempera	ature	60%	2		
	(mm)	Transmission to	rque				(kg
3 +0.03 +0.01	L Fastening screw	Clearance(mm) Model (set)	1	2	3	4	
1.5	115	FRECCION	0.5	00	00	1.5	

Dimension tabl	e					L	2 118		
Dimension value Model (set)	φD	Н	φd	h	φА	+0.03 +0.01	φВ	+0.03 +0.01	L Fastenir screw
FBS66W	66	15	66	5	12	15	12	15	M5
FBS40W	40	15	40	5	12	15	12	15	M5
FBS31W	31	15	28	5	10	12	10	12	M4

Clearance(mm)	72				_
Model (set)	1	2	3	4	5
FBS66W	35	28	20	15	11
FBS40W	9.4	5	2.8	2	1.4
FBS31W	3.3	1.8	0.9	0.5	0.3

Creating a product number for order placement *Company sells sets as a standardpolicy.**

