Temperature-induced magnetic flux change

Ratio of magnetic flux change(%)



lisage Examples



Twin bearings Carrier Partition Angle shift roisiry transmission transmission

OThere is no difference between the main and sub bearings, which enables users to apply to a variety of applications, such as multi bearings transmissions, different environments transmissions, low dust scattering measure, low noise transmissions or torque limiters.

Annlication Examples

example(1)

example(3)



▲MG type Rotary Feedthrough

·MG type Rotary Feedthrough

▲Planetary gear unit

example(2)



▲MagTran & Non-contact Rack and Pinion

 \bigcirc We answer the needs of our users who require a clean conveyance mechanism which utilizes "MagTran" and is diversified, and we consider the design and manufacture of products for various applications.

OWe have many special magnets standardized with original technology, combined with "MagTran", prepared so that it can apply widely.

©"MagTran" is shipped after through quality control which clears the inspection standard of JIS (Japanese Industrial Standards). O"MagTran" has wide adoption both in Japan and overseas.

[Warranty]

eed for one year after the date of shipment from the manufacture ever, this guarantee does not include damage to the product resulting from mishandling mentioned in the instru

- Caution!
- This product uses a stable plasma atmosphere. Do not place near magnetic devices such as watches The specifications described here are for this product. Before installing, a structural study is needed. Technical study and appropriate measures should be taken for the use of this product when being installed in
- mity to magnetic devices A specially attached permanent magnet is used in this product, however if used in an environment no ned in the specifications or in one which causes the current to disengage, the coer civity decreases
 - etelv fails. Maximum performance is guaranteed only when used as a set. All products must be used in a normal environment. For special enviro ents, specific handling instru
 - . erail is used in this product. Mishandling or constrained amage the product. Handle and store it carefully. Do not use damaged products
- er will damage the pr OThis product is considered a "Technical component" and is widely sold. It is recommended to refer to other company's "Applied patent" first and conduct a preliminary survey to avoid interference.

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Tha information provided in this catalog contains general descriptions of characteristics of performance which in case of actual use do not always apply as described, or which may change as a result of further development of the products. OThis catalog is protected by copyright. Reproduction or appropriations without permission is prohibited.



Toothless Gear



Non-Contact Drive Transmission Mechanism



From a belt and gear to

Non-contact drive



oothless gears , please visit this link.

For more in formation about 'MagTran





International Trade and Industry Minister Award New system revolutionizes manufacturing process of clean products



Highly Efficiency Toothless Gear (Vacuum Model / Atmospheremodel)

MagTran

型



OD	Model	ID +0.15 +0.05	Heght
φ35	FD35	φ29	22
φ26	FD26	φ20	14
φ22	FD22	φ17	12
<i>φ</i> 16	FD16	φ12	8



FD型 With holder

	Model	φDı	φD2	φA ^{+0.03} _{+0.01}	φB	Н	С	М	е
	EDSE	25	20	φ15	32	34.0	21	M4	5
	FD35 35	30	29	φ20					
	FDOC	F D26 26	20	φ12	22	25.5	17	М3	5
	FD20			φ15					
	FD22 22	22 1	17	φ10	10	22 5	16	MO	5
			φ12	10	23.0		1013	5	
	FD16	16 12	φ6	13	19.5	14	М3	5	
			<u>68</u>						

- OA shaft can be attached easily.
- Hex stop screw
- •Aluminum [Anti-corrosion]
- •Custom sizes also possible



FD型 Use classification Operating temperature : Standard type 60℃ Heat resistance type 150°C

		1		1		1
type	Form	Expression	Heat	Expression	Use environment	Expression
		С	Standard	S	Atmosphere	A
Cross turs					Vacuum	V
Cross type			Heat resistance	Н	Atmosphere	A
					Vacuum	V
	P		P Heat resistance	S	Atmosphere	A
Derellel time					Vacuum	V
Parallel type				H	Atmosphere	A
					Vacuum	V





FD型 Transfer torque Gap:T T=0.5mm Reference value

OHeat resistance torgue is reduced by 24% as compared with a standard model.

Model	Cross type (Expression C)	Parallel type (Expression P)		
FD35 2.50kgf⋅cm		5.70kgf⋅cm		
FD26	0.70kgf·cm	1.90kgf∙cm		
FD22	0.51kgf∙cm	1.08kgf·cm		
FD16	0.14kgf·cm	0.33kgf·cm		

©The following form factors are the high torque model. (S indication)

Model	Cross type	Parallel type		
FD35(S) 3.95kgf·cm		6.10kgf∙cm		
FD26(S) 1.45kgf·cm		2.20kgf·cm		
FD22(S)	0.80kgf·cm			

OAs for FD35(S) type, we have the left torsion model.







OStandard FBtype : with holder , FB8type : without holder



Product nu	mber configur	ation F		- 🗆 -
	FD26	S-C-A	S- <u>A12</u>	×last letter '
FD:Highly efficient type FB:Only for the non-vacu	um environments			
Model (OD size)				
S:hight torque mo (for only FD typ	e)			
C:Cross type				
P:Parallel type				

[Sample] Shaft designing dimensions and set up

0



O Ring size			Groove dimensions Table				
Model	O ring size		Model	A +0 -0.018	B +0 -0.1	S +0.13	
FD35	P22A		FD35	φ29	φ22.85	3.7	
FD26	P16		FD26	φ20	φ16.1	2.6	
FD22	P12		FD22	φ17	φ13.1	2.6	
FD16	P9		FD16	φ12	φ8.90	2.6	

OWhen installing, apply absolute ethanol (alcohol) into O-ring for smooth insertion of the MagTran.

Cost Efficient model for use in non-vacuum environment where cost performance and torque are important.





'indicates screw direction (Left)





*Groove dimensions do not use sealing specifications.

◎Increase (double or more) the O-ring groove if concern for slipping occurs.

OAdhesive can be used in non-vacuum applications to fix it securely.