

永磁聯軸器 Magnetic Couplings

永磁聯軸器使用內外轉子之間所建立的磁場傳遞轉矩，內外兩個磁力轉子相互吸引並同步耦合動作且不會有任何機械接觸，在旋轉過程中既不會滑動也不產生感應電流，相同數量的磁極彼此相對並對稱。

需要防止兩個密封分離區域的液體或氣體洩漏時，建議使用永磁聯軸器。

典型的應用是流體輸送泵，使用時液體不能與外部環境接觸。

永磁聯軸器也可以防止軸向和徑向的負載以及震動透過軸心傳遞。

Magnet coupling designed to transmit torque using the magnetic field that is established between the inner and outer rotor without mechanical contact between shafts. The magnetic couplings create neither slippage nor induction current during rotation. The magnets are installed alternating between poles in a side by side and opposing position. The inner and outer magnetic rotors are locked together by magnetic forces and work as a synchronous coupling. The use of magnetic couplings is recommended in applications where it is necessary to hermetically separate two zones in order to prevent fluid or gas leakage from one area to another. The classic example is fluid transfer pump applications. In these applications the fluid must not come into contact with the external environment. These magnetic couplings also prevent transmission of vibration and axial and radial loads through the drive shaft.

優點 Advantages

泵機免維護 -

無接觸無磨損，馬達震動不會傳遞到泵，無需定期檢查更換密封件，大幅降低維護成本。

Zero pump maintenance -

They work free of wear. Vibrations are not transmitted to the pump. There is no more the requirement to periodically check/change the sealing. The maintenance cost drops down drastically.

無洩漏 -

隔離罩安裝在泵端，將兩個區域密封隔離，以防止流體或氣體從一個區域洩漏到另一個區域，避免發生嚴重的洩漏事故。



No leakage -

The isolation cover is mounted on the pump end and the ability to hermetically separate two areas to prevent fluid or gas from leaking to another area to avoid serious leaks.

元件保護 -

超載時，傳遞扭矩超過聯軸器最大可傳遞扭矩，內外轉子將會分離而力矩傳遞被阻斷，除非泵停止，否則內外轉子將不會重新連接。

Component protection -

If the pump requires a torque (power) bigger than the maximum allowed, the magnets will decouple, they will not recouple unless the pump is stopped.

應用 Application

醫學 Medicine

化學工業 Chemical industry

石油和天然氣工業 Oil and gas industry

精煉技術 Refining technology

製藥業 Pharmaceutical industry

食品工業 Food industry

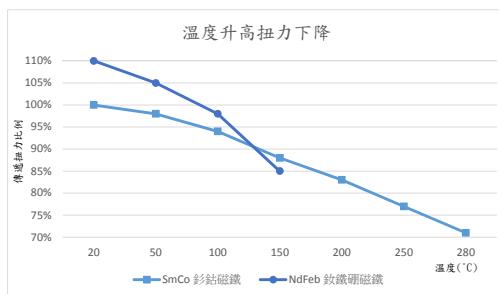
離心泵 Centrifugal pumps

齒輪泵 Gear pumps

螺桿泵 Screw pumps

輸送易燃、易爆、易揮發、有毒、高溫、強酸和鹼、有機溶劑和貴重液體的生產工業。

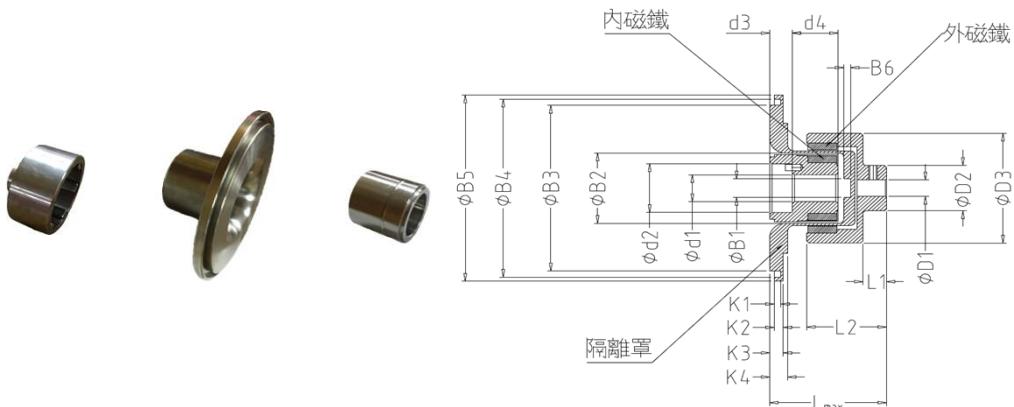
Especially for flammable, explosive, volatile, toxic, conveying high temperature, strong acids and alkalis, organic solvent and precious liquid.



磁鐵材質	最大工作溫度
NdFeb	150 °C
SmCo	280 °C

*如果工作溫度不超過150°C，為減少成本建議使用NdFeb。

外型尺寸圖 Dimensions



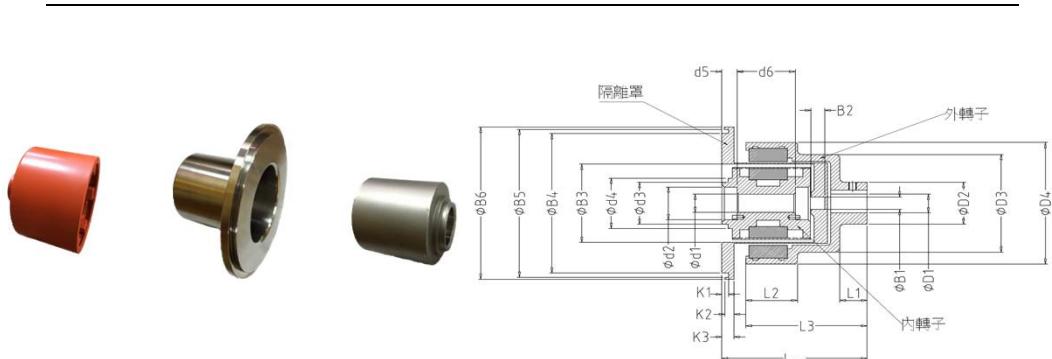
型號	隔離罩 Isolation Cover										外轉子 Outer Rotor				內轉子 Inner Rotor				Lmax	單位:mm	
	B1	B2	B3	B4	B5	B6	K1	K2	K3	K4	D1	D2	D3	L1	L2	d1	d2	d3	d4		
GRMC60-B	9	34	80	86	90	3	3	4	6	8	8	22	53	10.5	35.5	13	23.5	10	20.5	51.5	

型號 20°C環境溫度扭力
GRMC60-B 0.035mkg

*GRMC60-B最大工作溫度為150°C。GRMC60-B max work temperature is 150°C.

*內外轉子軸心孔可視使用軸心做小範圍修改。

*規格品訂做。 Specifications product customization.



型號	隔離罩 Isolation Cover										外轉子 Outer Rotor						內轉子 Inner Rotor						Lmax	單位:mm
	B1	B2	B3	B4	B5	B6	K1	K2	K3	D1	D2	D3	D4	L1	L2	L3	d1	d2	d3	d4	d5	d6		
GRMC10-2N	9	9	56	80	88	90	4.5	6	8	13.5	30.1	70	87.1	18	34	80.1	13	23.5	30	36	4	3	97.3	
GRMC11-4N6N				100	106	109																	96	
GRMC21-6N				125	137	140																	97.1	

型號 20°C環境溫度扭力

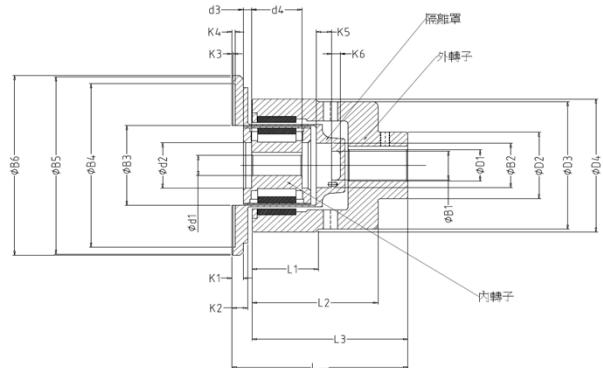
GRMC10-2N 0.1mkg

GRMC11-4N6N 0.2mkg/0.4mkg

GRMC21-6N 0.4mkg

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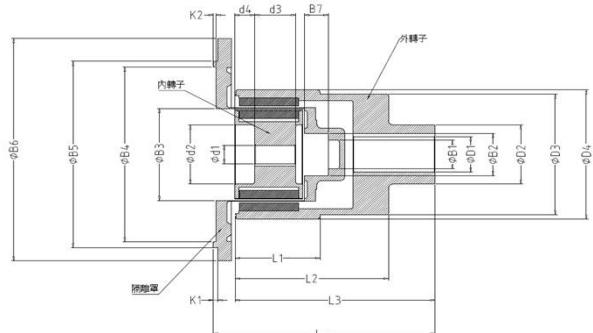
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	B1	B2	B3	B4	B5	B6	K1	K2	K3	K4	K5	K6	D1	D2	D3	D4	L1	L2	L3	d1	d2	d3	d4	
GRMC210-N20			123	135	137																			149.5
GRMC221-N2032	26	40	72	148	160	186	9.5	13	1	2.5	13	7	28	60	115	120	55	105	130	18	41	7	42	
GRMC222-N32				173	185	187																		

型號 20°C環境溫度扭力

GRMC210-N20	1.2mkg
GRMC221-N2032	1.2mkg/2.5mkg
GRMC222-N32	2.5mkg

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型號	隔離罩 Isolation Cover								外轉子 Outer Rotor						內轉子 Inner Rotor				Lmax	單位:mm	
	B1	B2	B3	B4	B5	B6	B7	K1	K2	D1	D2	D3	D4	L1	L2	L3	d1	d2	d3	d4	
GRMCL-V40	34	50	109	207	221	264	26	15	5	42	70	143	153	93	168	219	22	70	8	45	226.5
GRMCL-V65																					236.5

型號 20°C環境溫度扭力

GRMCL-V40	8mkg
GRMCL-V65	14mkg

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