

ROTARY JOINTS



EZ-CLAMP



coolant,hydraulic,air



Contents

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Contents

RF
RBI
RLB/RLF
RSB/RSF
RMB/RMF
RHB/RHF
RXF/RHV
INSTALLATION

工作條件 Working conditions

型號	壓力	工作溫度	轉速	水	空氣	油
Type	Pressure(*) (BAR)max	Temperature (°C)max	RPM max	Coolant media water	Air	Oil
RF	105	120	6.000	0	0	0
RBI	105	120	3.800	0	0	0
RSB/RSF	100	120	15.000	0		0
RLB/RLF	70	120	15.000	0		0
RMB/RMF	70	120	15.000	0		0
RHB/RHF	105	120	20.000	0		0
RXF	105	120	30.000	0		0
RHV	105	120	30.000	0		0

1. 有關任何運轉條件標示於表格中可向本公司洽詢。
2. 為了長期運轉下應選擇較好的條件。
3. 參考有關運轉條件數值之頁面。

1. For questions on any relevant operation condition stated in the table , please contact us for further information.
2. For standing in long-term operation period, better condition should be chosen.
3. Please refer to negative side of relevant value of operation conditions.





空氣 - 水 -
冷卻工具 -
液壓油。

air-water-
coolant media-
hydraulic oil.

1. 高品質旋轉接頭和2個精密軸承裝置在高剛性轉軸上，擔保長時間運轉無振動。
2. 轉軸經過特殊熱處理增加剛性。
3. 固定環封閉物是特殊的材料，是抗磨損碳精石墨所製造的，不透水和乾式運轉。
4. 特別的是旋轉封閉面大小必須減低到最低限度，甚至在較高的壓力下。
5. 經本公司長期機械經驗獲得封閉面部份有較好的平衡效果。
6. RF型旋轉接頭採用青銅固定環是為了在高壓力200 bar中使用。

1. High quality rotary joints and two delicate bearing installed in highstiffness rotor are to ensure vibration-free performance in long-term operation.
2. Rotors undergo special heat treatment to increase stiffness.
3. Stationary ring enclosure is made out of concentrated carbon graphite, anti-wear-out, waterproof, and suitable for dry operation.
4. Especially the area of rotating sealing faces has to be minimized to the minimum, even under higher-pressure environment.
5. The effect of equilibrium in sealing face from accumulation of our company experiences in mechanics is the best.
6. Adaptation of stationary ring made out of bronze in RF-type rotating connector is for the use in high-pressure 200 bar.

應用範圍：

一般工具機，工作站，電腦數值控制，旋轉分配器。

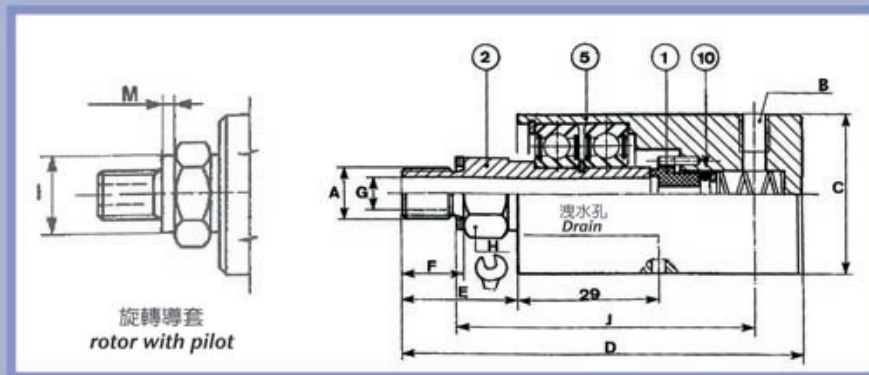
Applications

General tool machines, transfers, CNC, rotating distributors.

流體	轉軸	壓力	工作溫度	轉速
Fluid	Rotor	Pressure (BAR)	Temperature (°C)	RPM
空氣/水 air/water	無襯套 without pilot	10	120	*
	有襯套 with pilot	10	120	*
液壓油 hydraulic oil	無襯套 without pilot	105	120	3.800
	有襯套 with pilot	105	120	6.000

* 如有高速乾轉及高壓力工作環境，請向本公司洽詢。

* If high-speed operation and high pressure working environment is necessary, please contact us for further information.



Type	A		B (PT) (NPT)	C	D	E	F	G	H	J	I	M	weight (KG)
RF08U05L0IN2	5/8"-18UNF	LH	1/4"	39	84	25	16	6.5	22	58			0.5
RF08U05LP0IN2	5/8"-18UNF	LH	1/4"	39	88	29	20	6.5	22	59	16.65 ^{+0.0} _{-0.015}	3	0.55
RF08M16L0IN2	M16XP1.5	LH	1/4"	39	84	25	16	6.5	22	58			0.5
RF08M16LP0IN2	M16XP1.5	LH	1/4"	39	88	29	20	6.5	22	59	18 ^{+0.0} _{-0.015}	3	0.55
RF28U05L02N3	5/8"-18UNF	LH	3/8"	44	100	26	16	6.5	22	72.5			0.65
RF28U05LP02N3	5/8"-18UNF	LH	3/8"	44	104	30	20	6.5	22	73.5	16.65 ^{+0.0} _{-0.015}	3	0.7
RF28M16L02N3	M16XP1.5	LH	3/8"	44	100	26	16	6.5	22	72.5			0.65
RF28M16LP02N3	M16XP1.5	LH	3/8"	44	104	30	20	6.5	22	73.5	18 ^{+0.0} _{-0.015}	3	0.7

材質

固定環 [1]：碳精石墨和青銅。

轉軸 [2]：不鏽鋼和高硬度不鏽鋼。

外殼 [5]：鋁合金。

封閉面材質：石墨和不鏽鋼。

襯墊 [10]：O型環。

Materials

Stationary Ring (1): Carbon Graphite And Bronze

Rotor (2): Stainless Steel And Harded Stainless Steel

Support (5): Anodised aluminium

Faces materials: Graphite vs Stainless Steel

Gasket (10): O Ring



空氣 - 油 - 水 內側裝置

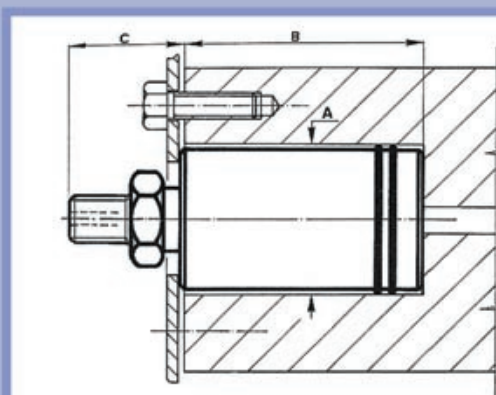
air-oil-water

Inside mounting

1. 這些接頭為了特殊機械功能而設計。
2. 固定環封閉物是由碳精石墨所製成，抗磨損、不透水和乾式運轉。
3. 經由本公司長期機械經驗所獲得封閉面平衡效果最好。

1. These rotary joints are designed for specific mechanical features.
2. Stationary ring enclosure is made out of concentrated carbon graphite, anti-wearout, waterproof, and suitable for dry operation.
3. The effect of equilibrium in sealing faces from accumulation of our company experiences in mechanics is the best.

Type	Rotor		A +0.3 +0.4	B	C
RBI08U05L03	5/8"-18UNF	LH	39	54	30
RBI08U05LP03	5/8"-18UNF	LH	39	54	34
RBI08M16L03	M16xP1.5	LH	39	54	30
RBI08M16LP03	M16xP1.5	LH	39	54	34
RBI28U05L04	5/8"-18UNF	LH	44	72	28
RBI28U05LP04	5/8"-18UNF	LH	44	72	32
RBI28M16L04	M16xP1.5	LH	44	72	28
RBI28M16LP04	M16xP1.5	LH	44	72	32



流體 轉軸 壓力 工作溫度 轉速

Fluid	Rotor	Pressure (BAR)	Temperature (°C)	RPM
空氣 Air	無襯套 without pilot	10	120	*
	有襯套 with pilot	10	120	*
水-液壓油 water-hydraulic oil	無襯套 without pilot	105	120	3,800
	有襯套 with pilot	105	120	6,000

材質

固定環：碳精石墨和青銅。

轉軸：不銹鋼和高硬度不銹鋼。

外殼：鋁合金。

封閉面材質：石墨和不銹鋼。

襯墊：O型環。

Materials

Stationary Ring: Carbon Graphite And Bronze

Rotor: Stainless Steel And Hardened Stainless Steel

support: Anodised aluminium

Faces materials: Graphite vs stainless Steel

Gasket: O Ring

* 如有高速乾轉及高壓力工作環境，請向本公司洽詢。

* If high-speed operation and high pressure working environment is necessary, please contact us for further information.



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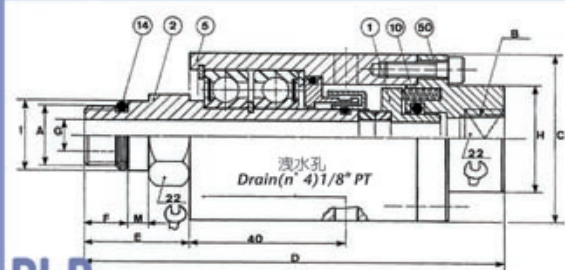
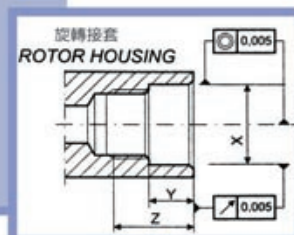


壓力 Pressure (BAR)	工作溫度 Temperature (°C)	轉速 RPM	流量 Flow Rate (l/1')
70	120	15,000	50

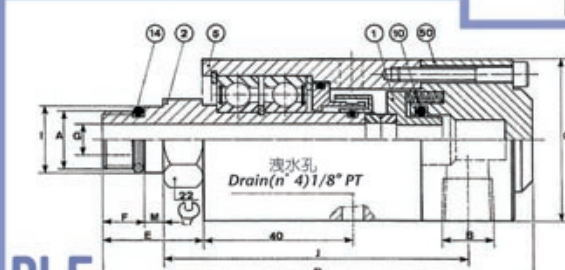
水
冷卻工具
中等溫度
高轉速

1. 冷卻劑為了旋轉接合尤其在高速條件下運用是非常特殊困難的。
2. 零件中的一個特殊迷宮式組件來止漏。
3. 而兩個封閉面的材質是由碳化鎢所製成，保證長期運轉而抗磨損。
4. 封閉環在正常作用到適當的平衡，甚至在高壓下保證極低的磨損。

1. The use of coolant for rotary joints under high-speed operation is particularly difficult.
2. One of the particular mazedesign subassembly amongthe parts is used to prevent leakage.
3. The material for the two sealing faces is made out of Tungsten Carbide to guarantee long-time operation and anti-wear-out.
4. Sealing ring reaches proper equilibrium under normal operation, furthermore, guarantees extremely low wear-out under high pressure.



RLB



RLF

water
coolant media
medium
temperatures
high speed

Type	A	B (PT) (NPT)	C	D	E	F	G	I	M	J	X	Y	Z	Weight	(kg)	
RLB08U05L01N2	5/8"-18UNF	LH 1/4"		44	115	30	14	8.5	16.650 16.645		5	—	16.662 16.652	9	21	0.4
RLB28U05L02N3	5/8"-18UNF	LH 3/8"		44	115	30	14	8.5	16.650 16.645		5	—	16.662 16.652	9	21	0.4
RLB08M16L03N2	M16xP1.5	LH 1/4"		44	112	27	11	8.5	17.994 17.983		5	—	18.003 17.997	9	18	0.4
RLB28M16L04N3	M16xP1.5	LH 3/8"		44	112	27	11	8.5	17.994 17.983		5	—	18.003 17.997	9	18	0.4
RLF08U05L05N2	5/8"-18UNF	LH 1/4"		44	115	30	14	8.5	16.650 16.645		5	79.5	16.662 16.652	9	21	0.4
RLF28U05L06N3	5/8"-18UNF	LH 3/8"		44	115	30	14	8.5	16.650 16.645		5	79.5	16.662 16.652	9	21	0.4
RLF08M16L07N2	M16xP1.5	LH 1/4"		44	112	27	11	8.5	17.994 17.983		5	79.5	18.003 17.997	9	18	0.4
RLF28M16L08N3	M16xP1.5	LH 3/8"		44	112	27	11	8.5	17.994 17.983		5	79.5	18.003 17.997	9	18	0.4

材質

轉軸 [2]-固定環 [1]: 不鏽鋼。
外殼 [5-50]: 鋁合金。
封閉面材質: 碳化鎢對碳化鎢。
襯墊: O型環。

Materials

Rotor (2) - Stationary Ring (1): Stainless Steel
Support (5-50) Anodised aluminium
Faces materials: Tungsten Carbide vs Tungsten Carbide
Gasket (10-14): O Ring



<http://www.ez-clamp.com.tw>

冷卻 - 水 - 油
高轉速
混濁液體

coolant-water-oil

high speed

dirty liquids

8



1. 高品質旋轉接頭及不銹鋼轉軸組合在精密軸承上確保長期運轉性能無振動。
2. 兩個封閉面是碳化鎢材料所製成，而這個材質是特別抗磨損和機械突震。
3. 尤其是旋轉接合面大小必須減低到最低限度做較高壓力的旋轉接合。
4. 經本公司長期機械經驗所獲得平衡效果最好。
5. 零件中所使用不銹鋼彈簧、不生銹不阻礙、擾動、液體流動指引通路流暢。
6. RSB與RSF之冷卻劑連接方向不同。

應用範圍

一般工具機，槍鑽，工作站，電腦數值控制，玻璃機械工具。

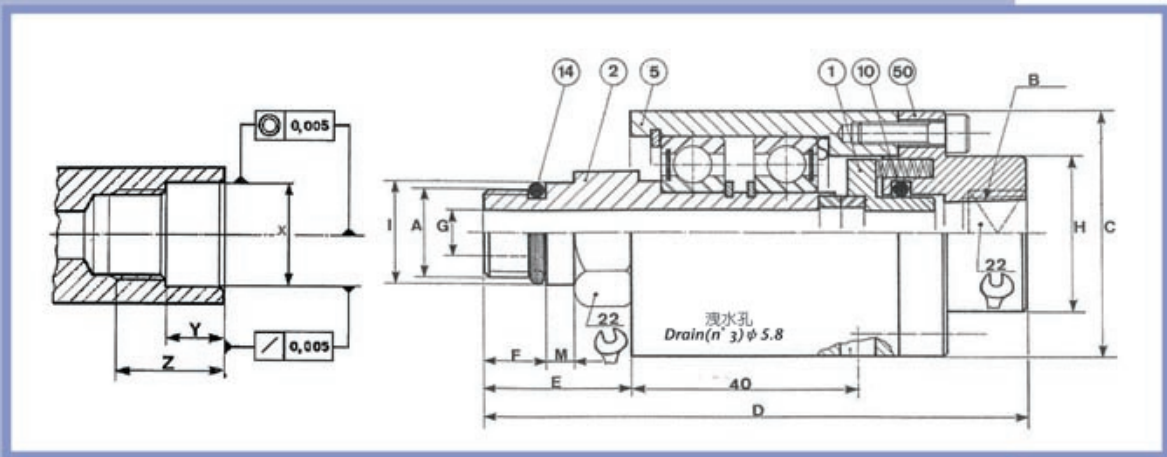
1. High quality rotary joints and stainless steel rotor assembly installed in delicate bearing is to ensure vibration-free performance in longterm operation.
2. The two sealing faces are made out of anti-wear-out and Tungsten Carbide for suppression of mechanical jolt.
3. Especially the area of contact face of rotation has to be minimized to the minimum to allow rotation connection under high pressure.
4. The effect of equilibrium from accumulation of our company experiences in mechanics is the best.
5. Use stainless spring, preventing rusting, or other mechanical disturbance, and keeping smooth moving path for fluid.
6. Direction of connection for RSB and RSF coolant is different.

Applications

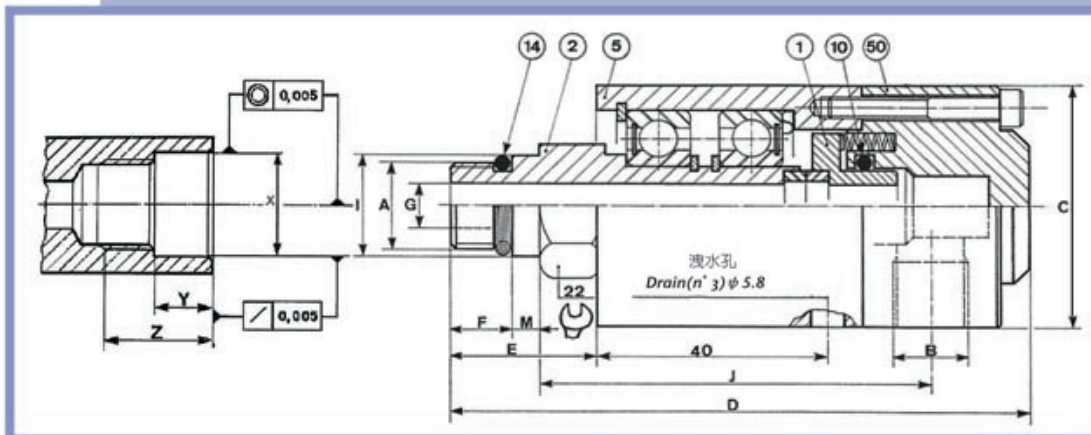
Generic tool machines, drills, transfers, CNC, glass machining tools

型號 Type	壓力 Pressure (BAR)	工作溫度 Temperature (°C)	轉速 RPM	流量 Flow Rate (l/1')
RSB/RSF08	100	120	15.000	8
RSB/RSF28	100	120	15.000	28





Type	A	B (PT) (NPT)		C	D	E	F	G	I	M	X	Y	Z	Weight (kg)
RSB08U05R01N2	5/8"-18UNF	RH	1/4"	44	105	29.5	14	8.5	16.650 16.645	5	16.652 16.662	9	21	0.3
RSB08U05L01N2	5/8"-18UNF	LH	1/4"	44	105	29.5	14	8.5	16.650 16.645	5	16.652 16.662	9	21	0.3
RSB28U05R02N3	5/8"-18UNF	RH	3/8"	44	105	29.5	14	8.5	16.650 16.645	5	16.652 16.662	9	21	0.3
RSB28U05L02N3	5/8"-18UNF	LH	3/8"	44	105	29.5	14	8.5	16.650 16.645	5	16.652 16.662	9	21	0.3
RSB08M16L03N2	M16xP1.5	LH	1/4"	44	102	26.5	11	8.5	17.994 17.983	5	17.997 18.007	9	18	0.3
RSB28M16L04N3	M16xP1.5	LH	3/8"	44	102	26.5	11	8.5	17.994 17.983	5	17.997 18.007	9	18	0.3



Type	A		B (PT) (NPT)	C	D	E	F	G	I	M	J	X	Y	Z	Weight (kg)
RSF08U05R01N2	5/8"-18UNF	RH	1/4"	44	105	29.5	14	8.5	16.650 16.645	5	69	16.652 16.662	9	21	0.35
RSF08U05L01N2	5/8"-18UNF	LH	1/4"	44	105	29.5	14	8.5	16.650 16.645	5	69	16.652 16.662	9	21	0.35
RSF28U05R02N3	5/8"-18UNF	RH	3/8"	44	105	29.5	14	8.5	16.650 16.645	5	69	16.652 16.662	9	21	0.35
RSF28U05L02N3	5/8"-18UNF	LH	3/8"	44	105	29.5	14	8.5	16.650 16.645	5	69	16.652 16.662	9	21	0.35
RSF08M16L03N2	M16xP1.5	LH	1/4"	44	102	26.5	11	8.5	17.994 17.983	5	69	17.997 18.007	9	18	0.35
RSF28M16L04N3	M16xP1.5	LH	3/8"	44	102	26.5	11	8.5	17.994 17.983	5	69	17.997 18.007	9	18	0.35

材質

轉軸 [2] - 固定環 [1] : 不鏽鋼。

外殼 [5-50] : 鋁合金。

封閉面材質 : 碳化鎢對碳化鎢。

襯墊 [10-14] : O 型環。

Materials

Rotor (2) - Stationary Ring (1): Stainless Steel

Support (5-50) Anodised aluminium

Faces materials: Tungsten Carbide vs Tungsten Carbide

Gasket (10-14): O Ring



冷卻
開 / 閉機構
高轉速
coolant
on/off running
high speed



1. 高精度的旋轉接頭要有開／閉功能的特色。
2. 開／閉功能經由冷卻劑穿越時在瞬間接合的這一段期間要避免洩漏。
3. 當冷卻劑停止穿越時，這封閉面將馬上打開避免摩擦，而這個功能保證壽命長。
4. 特別的是由一個迷宮式組件來防止少數的液體回漏。
5. 兩個接觸面是由抗磨損和機械突震之碳化鎢所製成的。
6. 使用不鏽鋼彈簧、不生鏽不阻礙、擾動、不受任何的改變。
7. RMB與RMF之冷卻劑連接方向不同。

1. Characteristics of ON/OFF should be borne in rotary joints with high precision.
2. In the instant of ON/OFF while coolant is flowing through, leakage needs to be prevented.
3. When coolant stops flowing through, the contact surfaces have to be opened to prevent dry friction so that the system life cycle is elongated.
4. Special design is the maze-design subassembly to prevent leakage of circumfluence.
5. The two contact surfaces are made out of anti-wear-out and Tungsten Carbide for suppression of mechanical jolt.
6. Use stainless spring, preventing rusting, or other mechanical disturbance.
7. Direction of connection for RMB and RMF coolant is different.

Applications

Generic tool machines, drills, transfers, CNC, glass machining tools.

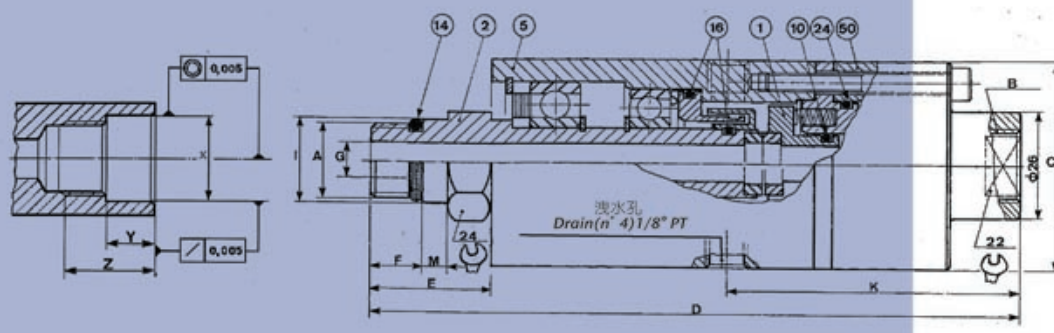
應用範圍

一般工具機，槍鑽，工作站，電腦數值控制，玻璃機械工具

型號 Type	壓力 Pressure (BAR)	工作溫度 Temperature (°C)	轉數 RPM	流量 Flow Rate (l/1')
RMB/RMF08	105	120	15.000	8
RMB/RMF28	70	120	15.000	28

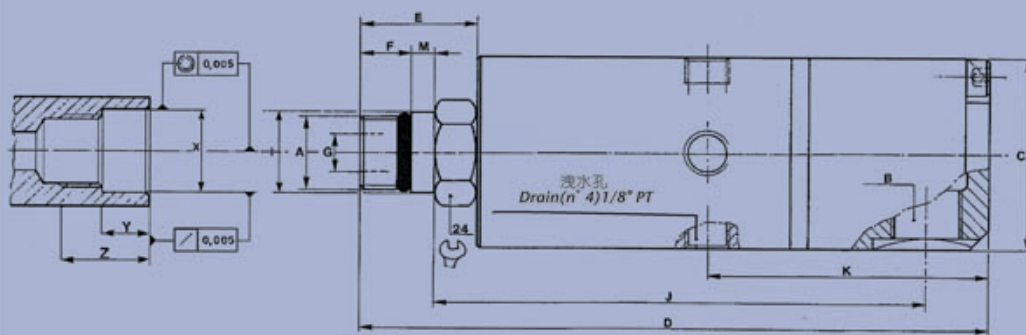


RMB



Type	A	B (PT) (NPT)	C	D	E	F	G	I	M	X	Y	Z	K	Weight (kg)
RMB28U05L01N3	5/8"-18UNF	LH 3/8"NPT	43,760 43,735	144	29	14	8.5	16.650 16.645	5	16.652 16.662	9	21	65	0.6
RMB28M16L02R3	M16xP1.5	LH RP3/8" ISO7/1	43,760 43,735	141	26	11	8.5	17.994 17.983	5	17.997 18.007	9	18	65	0.6
RMB08U05L03N2	5/8"-18UNF	LH 1/4"NPT	43,760 43,735	144	29	14	8.5	16.650 16.645	5	16.652 16.662	9	21	65	0.6
RMB08M16L04R2	M16xP1.5	LH RP1/4" ISO7/1	43,760 43,735	141	26	11	8.5	17.994 17.983	5	17.997 18.007	9	18	65	0.6

RMF



Type	A	B (PT) (NPT)	C	D	E	F	G	I	J	M	X	Y	Z	K	Weight (kg)
RMF28U05L05N3	5/8"-18UNF	LH 3/8"NPT	43,760 43,735	144	29	14	8.5	16.650 16.645	111	5	16.652 16.662	9	21	65	0.6
RMF28M16L06R3	M16xP1.5	LH RP3/8" ISO7/1	43,760 43,735	141	26	11	8.5	17.994 17.983	111	5	17.997 18.007	9	18	65	0.6
RMF08U05L07N2	5/8"-18UNF	LH 1/4"NPT	43,760 43,735	144	29	14	8.5	16.650 16.645	111	5	16.652 16.662	9	21	65	0.6
RMF08M16L08R2	M16xP1.5	LH RP1/4" ISO7/1	43,760 43,735	141	26	11	8.5	17.994 17.983	111	5	17.997 18.007	9	18	65	0.6

材質

轉軸 [2] - 固定環 [1] : 不鏽鋼。
外殼 [5-50] : 鋁合金。
封閉面材質 : 碳化鎢對碳化鎢。
襯墊 [10-14-16-24] : O型環。

Materials

Rotor (2) - Stationary Ring (1): Stainless Steel
Support (5-50) Anodised aluminium
Faces materials: Tungsten Carbide vs Tungsten Carbide
Gasket (10-14-16-24): O Ring

冷卻
開 / 閉機構
超高轉速
coolant
on/off running
very high speed



1. 此類型旋轉接頭RHB與RHF類似於RMB與RMF、不同的是主體表面有溝槽，能在高速旋轉時幫助散熱。
 2. 當冷卻劑穿越開 / 閉機構時，接觸面自動閉合防止洩漏，冷卻劑終止時接觸面馬上打開、避免乾磨擦。
 3. 使用這種方法保證長期運轉時接觸面不致於乾運轉時而損壞。
 4. 特別的是有迷宮式組件來防止洩漏。
 5. 兩個接觸面是由抗磨損和機械突震之碳化鎢所製成。
 6. 使用不鏽鋼彈簧不生鏽、不阻礙、不受任何擾動和其他改變。
 7. RHB與RHF冷卻劑連接方向不同。
1. Such kind of rotary joints, RHB and RHF are similar to RMB and RMF. The difference is that the grooves on surface of main body can help heat dispersion under high-speed rotation.
 2. When coolant goes through ON / OFF devices, contact surfaces automatically closes to prevent leakage. Contact surfaces automatically detaches from each other upon exhaustion of coolant to avoid dry grinding.
 3. Adaptation to this approach guarantees contact surface will not be damaged caused by dry operation in a long time period.
 4. Special design is the maze-design subassembly to prevent leakage.
 5. The two contact surfaces are made out of anti-wear-out and Tungsten Carbide for suppression of mechanical jolt.
 6. Use stainless spring, preventing rusting, or other mechanical disturbance.
 7. Direction of connection for RHB and RHF coolant is different.

應用範圍

一般工具機、槍鑽、工作站、電腦數值控制、玻璃機械工具。

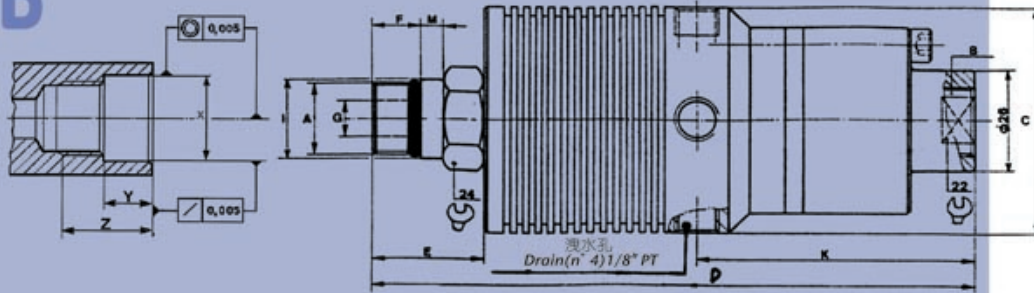
Applications

Generic tool machines, drills, transfers, CNC, glass machining tools.

型號 Type	壓力 Pressure (BAR)	工作溫度 Temperature (°C)	轉速 RPM	流量 Flow Rate (l/min)
RHB/RHF08	105	120	20.000	8
RHB/RHF28	70	120	15.000	28

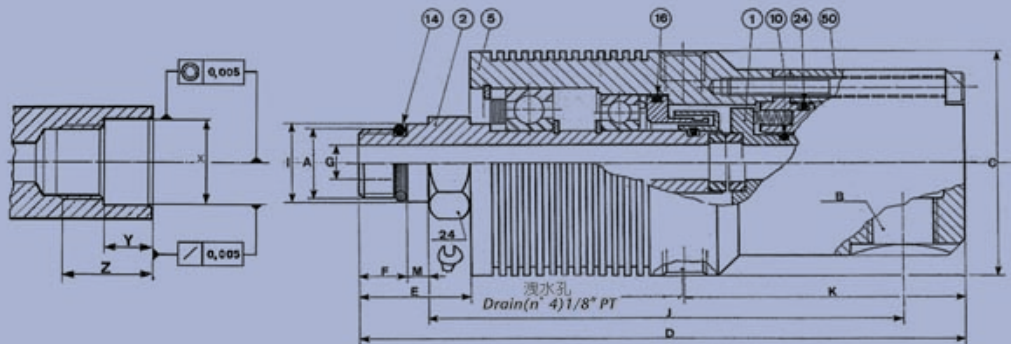
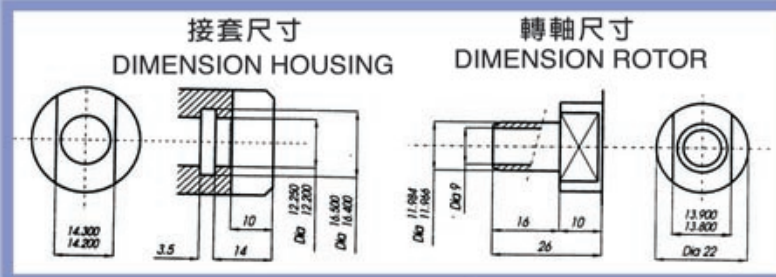


RHB



Type	A	B (PT) (NPT)	C	D	E	F	G	I	M	X	Y	Z	K	Weight (kg)
RHB08U05L01N2	5/8"-18UNF	LH 1/4"NPT	53	144	29	14	8.5	16.650 16.645	5	16.662 16.652	9	21	65	0.6
RHB08M16L02R2	M16xP1.5	LH RP1/4" ISO7/1	53	141	26	11	8.5	17.994 17.983	5	18.007 17.997	9	18	65	0.6
RHB28U05L03N3	5/8"-18UNF	LH 3/8"NPT	53	144	29	14	8.5	16.650 16.645	5	16.662 16.652	9	21	65	0.6
RHB28M16L04R3	M16xP1.5	LH RP3/8" ISO7/1	53	141	26	11	8.5	17.994 17.983	5	18.007 17.997	9	18	65	0.6

轉軸型號 ROTOR TYPE SH



RHF

Type	A	B (PT) (NPT)	C	D	E	F	I	G	X	J	M	Y	Z	K	Weight (kg)
RHF08U05L05N2	5/8"-18UNF	LH 1/4"NPT	53	144	29	14	16.650 16.645	8.5	16.662 16.652	111	5	9	21	65	0.6
RHF08M16L06R2	M16xP1.5	LH RP1/4" ISO7/1	53	141	26	11	17.994 17.983	8.5	18.007 17.997	111	5	9	18	65	0.6
RHF28U05L07N3	5/8"-18UNF	LH 3/8"NPT	53	144	29	14	16.650 16.645	8.5	16.662 16.652	111	5	9	21	65	0.6
RHF28M16L08R3	M16xP1.5	LH RP3/8" ISO7/1	53	141	26	11	17.994 17.983	8.5	18.007 17.997	111	5	9	18	65	0.6

材質

轉軸 [2] - 固定環 [1] : 不鏽鋼。
外殼 [5-50] : 鋁合金。
封閉面材質 : 碳化鎢對碳化鎢。
襯墊 [10-14-16-24] : O型環。

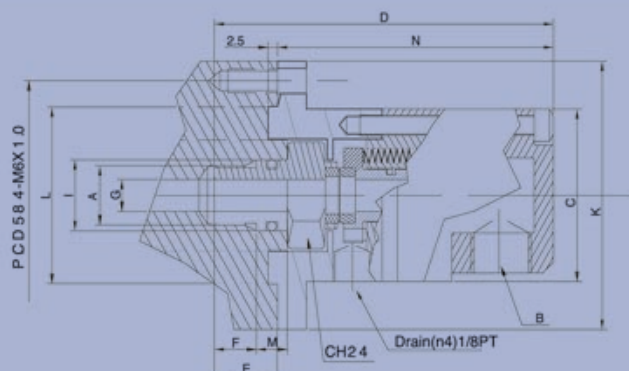
Materials

Rotor (2) - Stationary Ring (1): Stainless Steel
Support (5-50) Anodised aluminium
Faces materials: Tungsten Carbide vs Tungsten Carbide
Gasket (10-14-16-24): O Ring



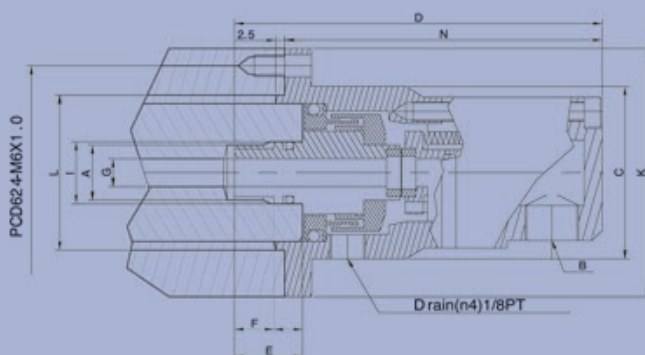
<http://www.ez-clamp.com.tw>

型號 Type	壓力 Pressure (BAR)	工作溫度 Temperature (°C)	轉速 RPM	流量 Flow Rate (l/1')
RXF/RHV08	105	120	30.000	8
RXF/RHV28	70	120	20.000	28



Type	A		B (PT) (NPT)	C	D	E	F	G	I	M	K	L	N
RXF08M16L01N2	M16xP1.5	LH	1/4"NPT	43.7	88.5	16.5	11	8.5	17.994 17.984	8	68	45	72
RXF08M16L02R2	M16xP1.5	LH	RP1/4" ISO7/1	43.7	88.5	16.5	11	8.5	17.994 17.984	8	68	45	72
RXF28M16L03N3	M16xP1.5	LH	3/8"NPT	43.7	88.5	16.5	11	8.5	17.994 17.984	8	68	45	72
RXF28M16L04R3	M16xP1.5	LH	RP3/8" ISO7/1	43.7	88.5	16.5	11	8.5	17.994 17.984	8	68	45	72

冷卻
開 / 閉機構
無軸承
超高轉速
coolant
on/off running
without bearings
very high speed



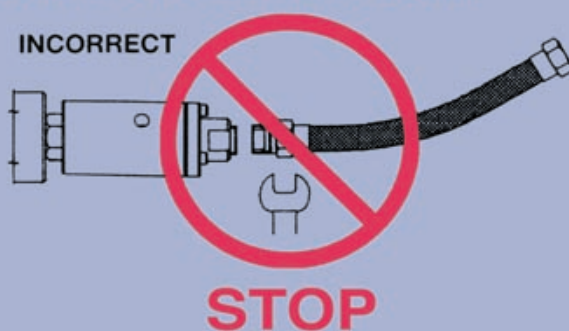
Type	A		B (PT) (NPT)	C	D	E	F	G	I	M	K	L	N
RHV08M16L01N2	M16xP1.5	LH	1/4"	50	102.5	19	11	8	17.994 17.983	8	72	45	88.5
RHV08M16L02R2	M16xP1.5	LH	RP1/4" ISO7/1	50	102.5	19	11	8	17.994 17.983	8	72	45	88.5
RHV28M16L03N3	M16xP1.5	LH	3/8"	50	102.5	19	11	8	17.994 17.983	8	72	45	88.5
RHV28M16L04R3	M16xP1.5	LH	RP3/8" ISO7/1	50	102.5	19	11	8	17.994 17.983	8	72	45	88.5

1. 旋轉接頭為了使冷卻劑在極高速度中執行開／閉功能，而轉軸直接置在機械主軸上沒有任何精密軸承，所以能在極高轉速下無任何振動。
2. 而固定部份是直接裝置在機械主體上。
3. 特別的是由一個迷宮式組件來防止少數的液體回漏。

1. Rotary joints are to allow ON/OFF operation of coolant at extremely high speed. The rotary joint is mounted directly on the spindle shaft without any bearings, so it can very high speed without causing any vibrations.
2. The stationary part is directly mounted on the machines body.
3. Special deign is the maze-design subassembly to prevent leakage of circumfluence.

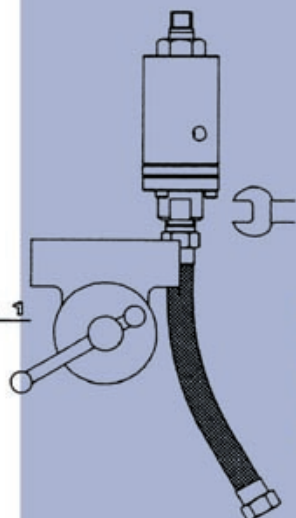
INSTALLATION OF BEARING SUPPORTED UNIONS

INCORRECT



STOP

STEP 1



本體連接安裝

1. 接軟管是非常重要的。
2. 執行到最後一個步驟確定不是施加邊緣的負荷。

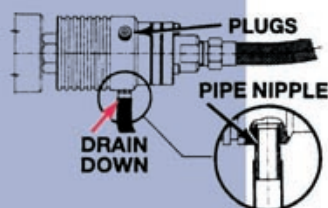
INSTALLATION OF MAIN BODY CONNECTION

1. It is important that the hose is connected to the union before it is mounted on the spindle.
2. Make one last check to make sure the hose is not exerting side load on the union.

CORRECT



STEP 2



產品排水安裝

1. 當這些裝置與另一裝置合併時必須垂直。
2. 安裝螺紋接管和排水孔對正直線底部通氣孔，有效果的排水必須連續朝下的路線。

INSTALLATION OF DRAIN LINES OF THE ALL PRODUCTS

1. When these unions are mounted other are mounted other the vertically.
2. Install nipple and drain line bottom vent hole and plug the other two, to be effective drain lines must be in a continuous downward path.



ANGENT



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