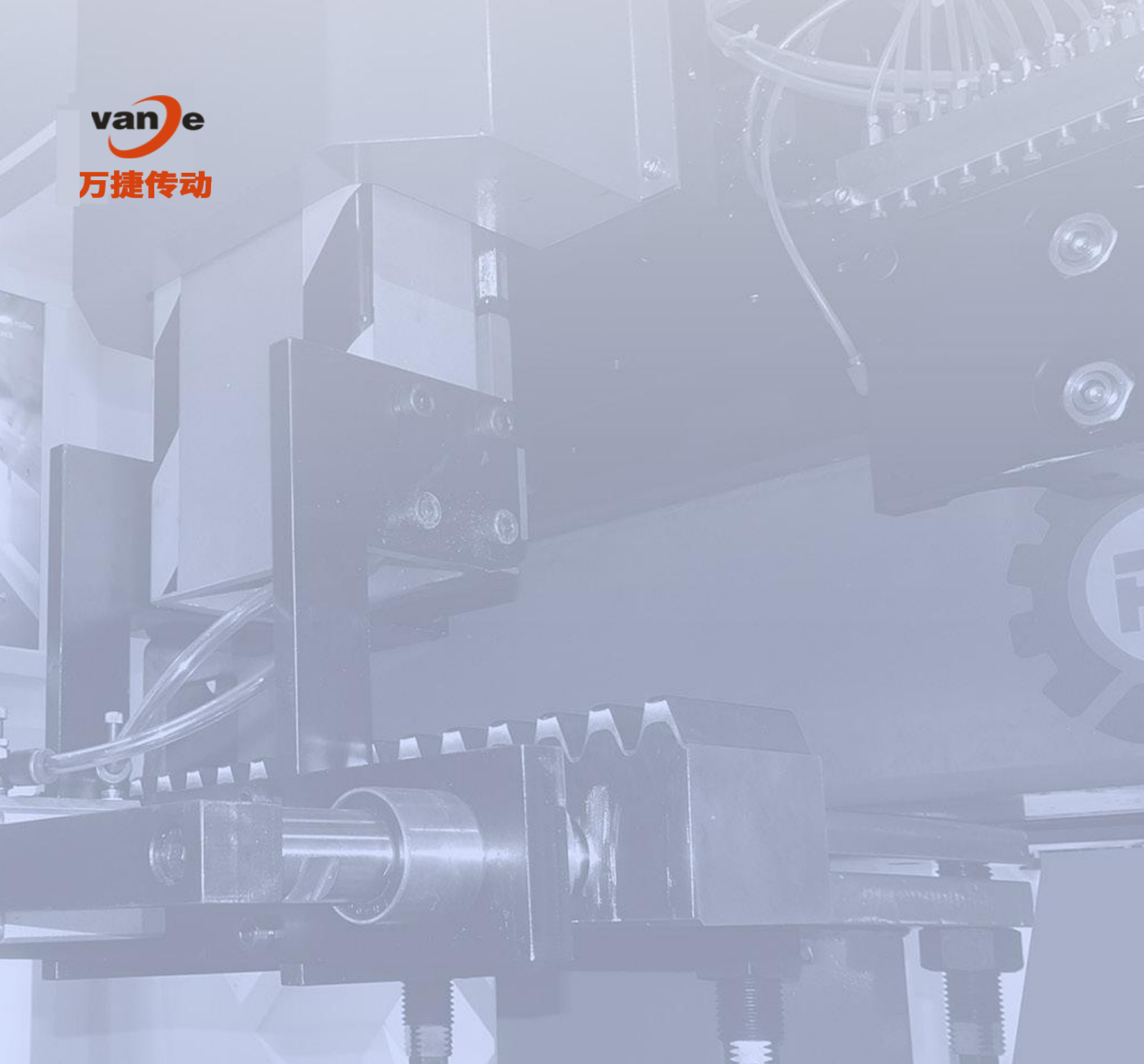


傳動知名品牌

Product by

高線速度：

滾輪在導軌面的滾動，可以達到很高的線速度，最高可達8m/s.

低安裝基準的精度要求：

導向滾輪導軌系統中的滾輪，就相當於滾珠導軌的滑塊，滾輪和導軌面的接觸屬於線接觸；

這樣就大大降低了對安裝基準面的精度要求，裝配省時省力。

低維護更換成本：

導向滾輪導軌系統，可以單獨更換磨損了的導軌或滾輪，不需要全部更換；

在現場，通過對偏心滾輪的調整，可方便調整並得到需要的預緊力。

因此，滾輪導軌的維護更換成本更低。

使用壽命更長：

導軌具有比滾輪軸承長得多的壽命，很多情況下，只需要更換滾輪，

然後通過調整偏心滾輪的偏心距，來得到需要的預緊力。滾珠導軌，

不管是滾珠還是導軌磨損到一定程度之後，為了保證應用需要的預緊或間隙，

都需要整套換掉。

適合惡劣環境下的使用：

滾輪中的軸承的滾動體，和導軌並不直接接觸，同時軸承具有很好的密封性；

因為滾輪和導軌的接觸方式為線接觸，使得滾輪通過“刮擦”運動，可以把灰

塵、切屑等雜質從導軌面上刮除，保持導軌面的清潔，從而非常適合在惡劣環境下使用。

High linear speed :

The system reach maximum linear speed 8m/s while rollers running on the rail.

Low install precision requirement :

The rollers and guideway are belong to linear contact, therefore it greatly reduced the need of the surface precision to increase the installation efficiency.

Low maintenance costs and longer lifetime :

Racks are much more durable than rollers,
In most cases, rollers are the only components has to be change.
Rollers can be replace individually.
Tensioning could be adjust through eccentric rollers in the locale.

Useable under severe environment :

The bearing structure in the rollers has great sealing property and its not direct contact with racks.
Rollers will scratch off the dust due to the linear contact with racks to keep rack surface clean.
Therefore, the linear systems are suitable under severe environment.

高速 重負載 軸承滾輪系列

Bearing roller series for heavy duty and high speed

V型軌道系列 | V type

	V型滾輪	V type roller	P.4
	V型滾輪潤滑罩	V type roller lub. case	
	V型滾輪安裝法蘭	V type roller install	

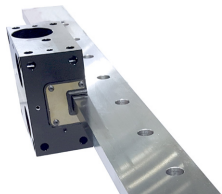
平型軌道系列 | Round type

	平型滾輪	Round type roller	P.8
	平型滾輪潤滑罩	Round type roller lub. case	
	平型滾輪安裝法蘭	Round type roller install flange	

高速 重負載 直線傳動模組系列

Linear transmission component series for heavy duty and high speed

重載型軌道系列 | Heavy duty guideway system

	滾輪模組 滑塊 / 導軌 40 / 52	Flat type Guideway / Roller slider 40 / 52	P.16
	滾輪模組 滑塊 / 導軌 62 / 72 / 90	Flat type Guideway / Roller slider 62 / 72 / 90	P.24

V 型

V type

高速 重負載
軸承滾輪系列

Heavy load, high speed
Bearing roller series



V型滾輪 V type Roller



型號介紹 | Code instruction

材料 Material	型態 Type	軸外徑 Shaft Dia. (mm)	偏心量 Excenter
U = 100Cr6	V	15 20 25 35	Y = 1mm N = 0mm

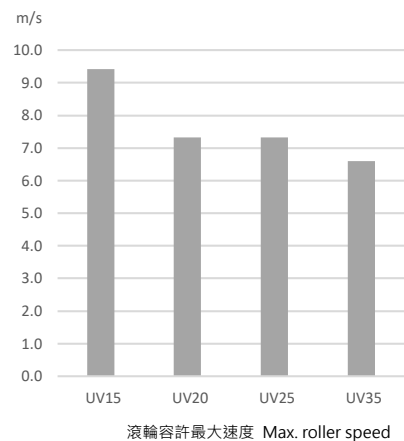
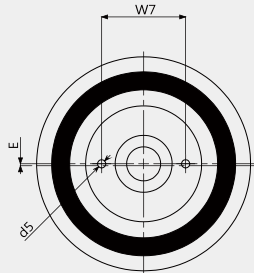
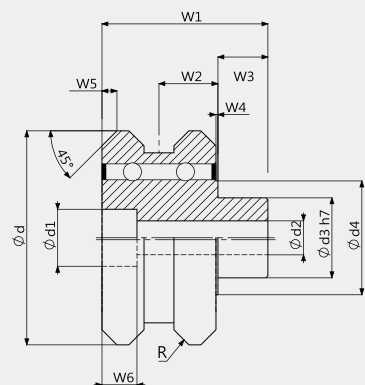
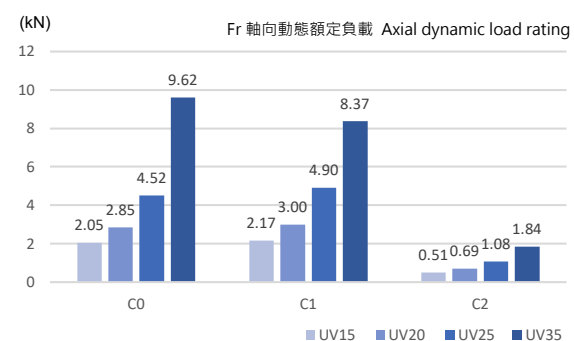
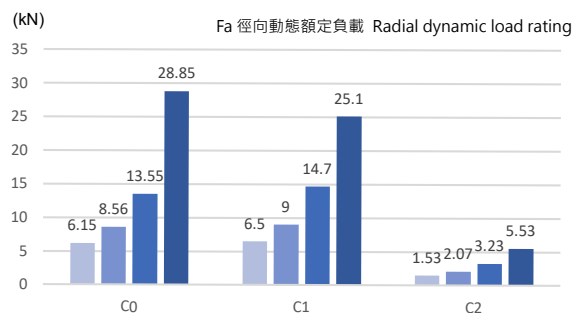
型號 Model	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 Kg
	C0	C1	C2		
UV15	6150	6500	1530	9000	0.25
UV20	8650	9000	2070	7000	0.50
UV25	13550	14700	3230	5600	1.10
UV35	28850	25100	5530	3600	2.80

C0 = 靜態負荷
C1 = 動態負荷；額定壽命 = 1000km
C2 = 動態負荷；額定壽命 = 100000km

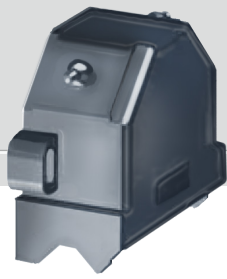
C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

※上述之負荷能力單指承受徑向力或軸向力，複合受力之情況請與我們聯繫。

*If you need to know the load when compound force, please contact us.

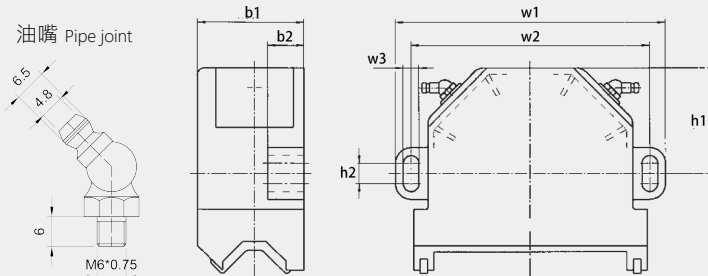


型號 Model	偏心量 Excenter	Ød	Ød1	W1	W2	W3	W4	W5	W6	R	Ød2	Ød3	Ød4	W7	Ød5
UV15Y	1mm	53	13.5	35	12	12	1	2	9	R250	8.4	15h7	23.8	18.5	2.6x3
UV15N	0mm	53	13.5	35	12	12	1	2	9	R250	8.4	15h7	23.8	18.5	2.6x3
UV20Y	1mm	63	16.5	46	16	15	1	3	11	R300	10.5	20h7	27.7	22.5	2.6x3
UV20N	0mm	63	16.5	46	16	15	1	3	11	R300	10.5	20h7	27.7	22.5	2.6x3
UV25Y	1mm	77	20.5	60	20.5	20	1	3.5	13	R360	13	25h7	35.6	27.5	4.1x4.5
UV25N	0mm	77	20.5	60	20.5	20	1	3.5	13	R360	13	25h7	35.6	27.5	4.1x4.5
UV35Y	1mm	107	28.5	84	30	25	1	7.5	17.5	R500	17	40h7	56.9	42	4.1x4.5
UV35N	0mm	107	28.5	84	30	25	1	7.5	17.5	R500	17	40h7	56.9	42	4.1x4.5



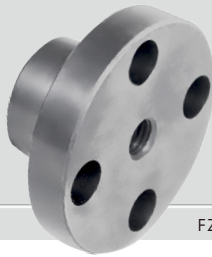
V型滾輪潤滑罩 V type Roller Lubrication Case

型號介紹 | Code instruction



元件類型 Component	適用滾輪 For roller	軸外徑 Shaft Dia. (mm)
L = 潤滑罩	V = UV	15
L = Lubricate		20
		25
		35

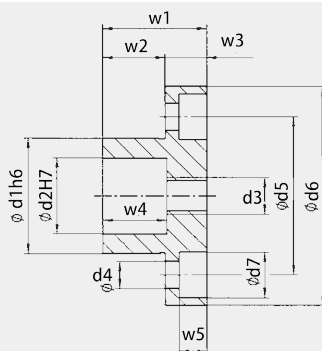
型號 Model	b1	b2	w1	w2	w3	h1	h2
LV15	26.5	12	81	71	4.5	31	7.5
LV20	34.5	12	96	84	5.5	35.5	7.5
LV25	44	15	112	99	6.5	43	8.5
LV35	63.5	15	128	128	6.5	58	8.5



FZ | Not Eccentric 正心

滾輪安裝法蘭 Install Flange

型號介紹 | Code instruction



元件功能 Application	型態 Type	軸外徑 Shaft Dia. (mm)	偏心率 Excenter
F = 安裝法蘭	Z = 正心法蘭 E = 偏心法蘭	15 20	Z = 0mm E = 1mm
F = Install Flange	Z = Standard E = Eccenter	25 35	

型號 Model	w1	w2	w3	w4	w5	d1h6	d2H7	d3	d4	d5	d6	d7
FZ15	24	14.5	9.5	12.5	5.7	26	15	M8	5.8	36	49	10
FZ20	29	18	11	16	6.8	30	20	M10	7	42	58	11
FZ25	34	20.5	13.5	21	9	38	25	M12	9	52	72	15
FZ35	39	22	17	26	11	59	40	M16	11	75	98	18

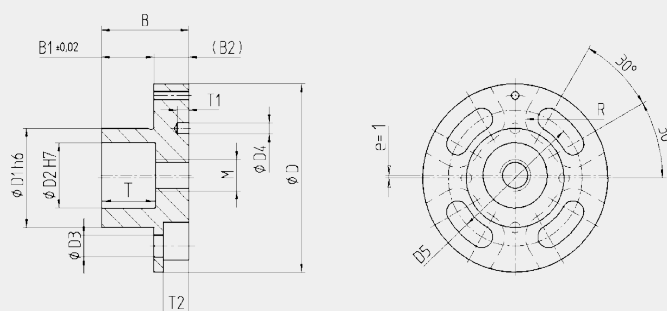


偏心安裝法蘭 Eccentric install Flange

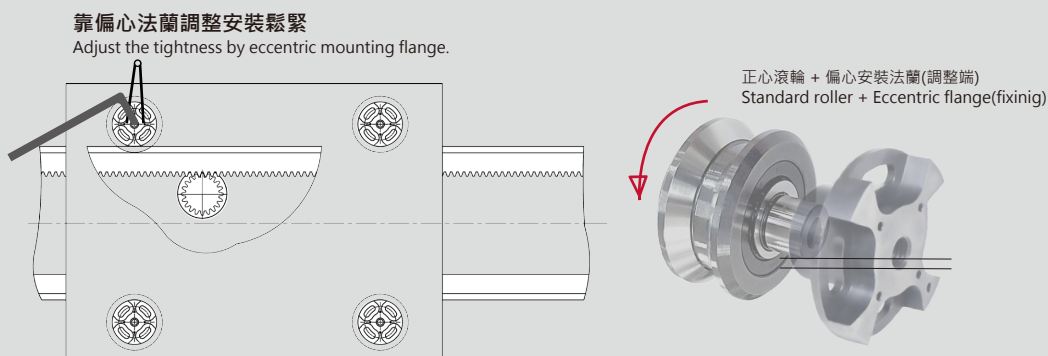
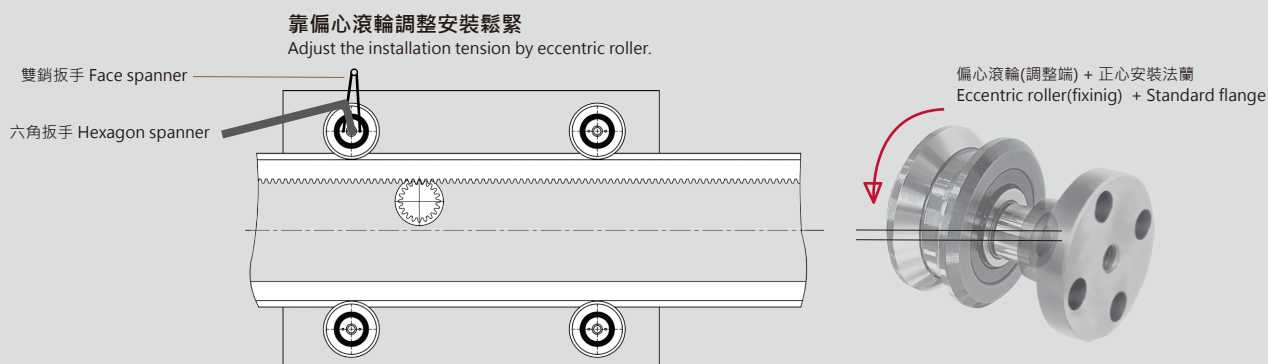
FE | Eccentric 偏心

型號介紹 | Code instruction

元件功能 Application	型態 Type	軸外徑 Shaft Dia. (mm)	偏心量 Excenter
F = 安裝法蘭	Z = 正心法蘭 E = 偏心法蘭	15 20 25 35	Z = 0mm E = 1mm
F = Install Flange	Z = Standard E = Eccenter		



型號 Model	B	B1	B2	D	D1h6	D2H7	D3	D4	D5	M	T	T1	T2	R
FE15	24	14.5	9.5	49	26	15	5.3	2.6	36	M6	12.5	3	6.3	6.5
FE20	29	18	11	58	30	20	6.4	2.6	42	M8	16	3	7.9	7.5
FE25	34	20.5	13.5	72	38	25	8.4	4.1	52	M12	21	4.5	9.9	9
FE35	39	22	17	98	59	40	10.5	4.1	75	M16	26	4.5	12.3	12



※上述為以直線傳動安裝作為安裝示範。
※直線軌道與帶齒軌道部分需另外搭配。

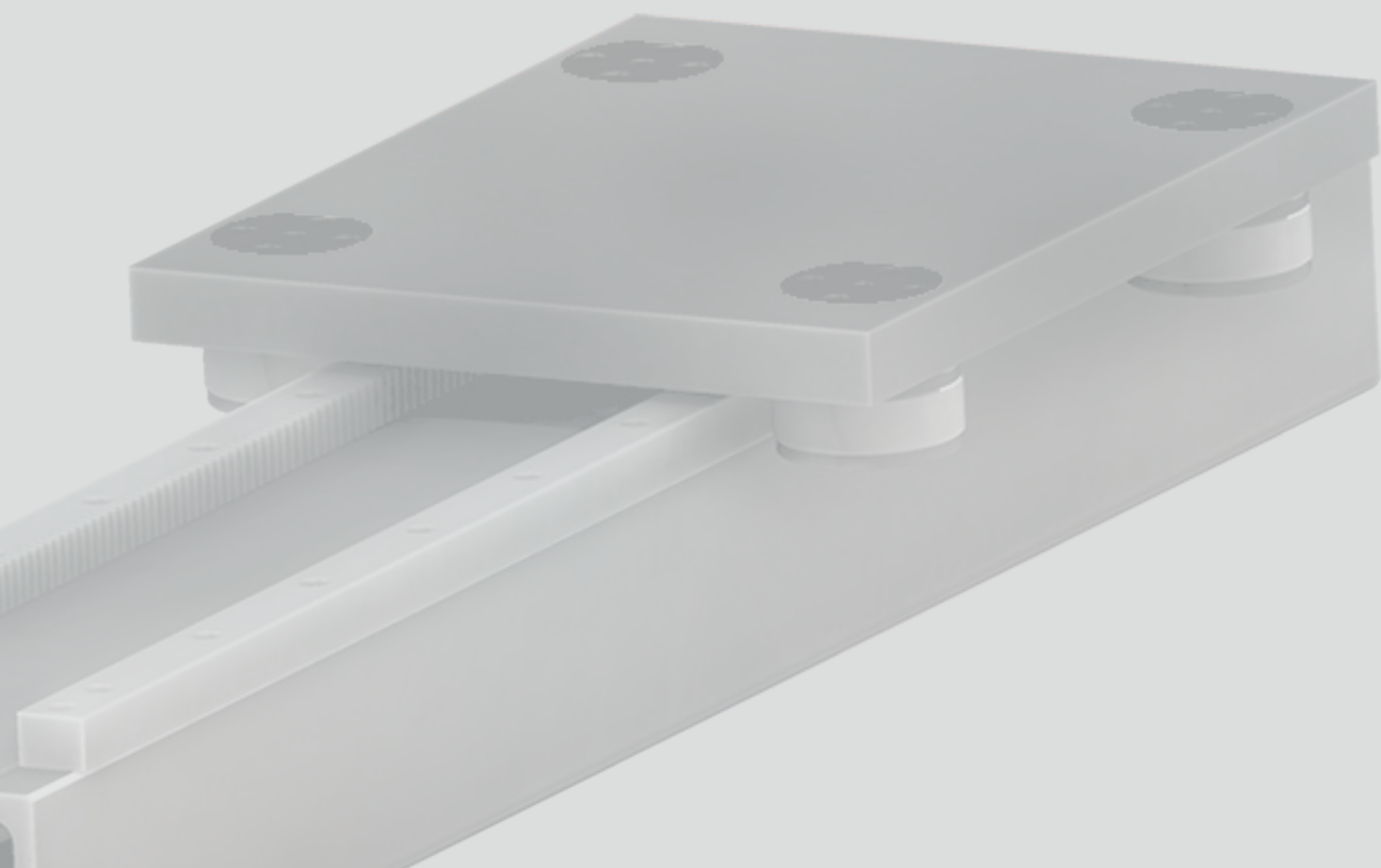
*The following is a demonstration of linear drive installation.
* The linear guideway and rack need additional matching.

平型

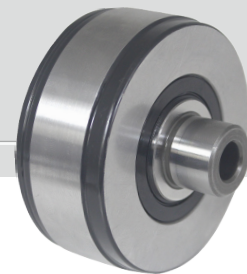
Round type

高速 重負載
軸承滾輪系列

Heavy load, high speed
Bearing roller series



平型滾輪 Round Roller



型號介紹 | Code instruction

材料 Material	型態 Type	軸外徑 Shaft Dia. (mm)	偏心量 Excenter
U = 100Cr6	R = 平型	15	Y = 1mm N = 0mm
		20	
	R = Round	25	
		35	

型號 Model	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 Kg
	C0	C1	C2		
UR15	6100	6500	1550	9000	0.18
UR20	8600	9000	2000	7000	0.70
UR25	13500	14700	3200	5600	1.10
UR35	28800	25600	5500	3600	3.00

C0 = 靜態負荷

C1 = 動態負荷；額定壽命 = 1000km

C2 = 動態負荷；額定壽命 = 100000km

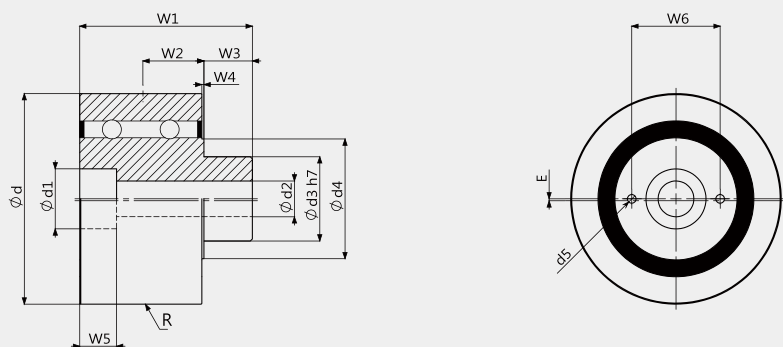
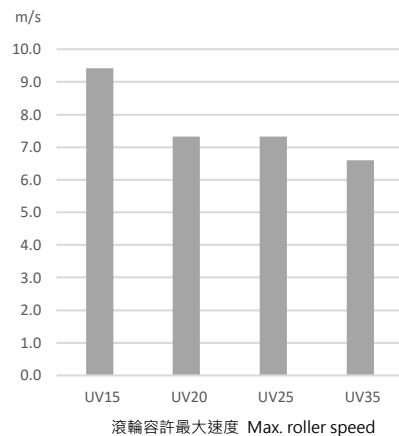
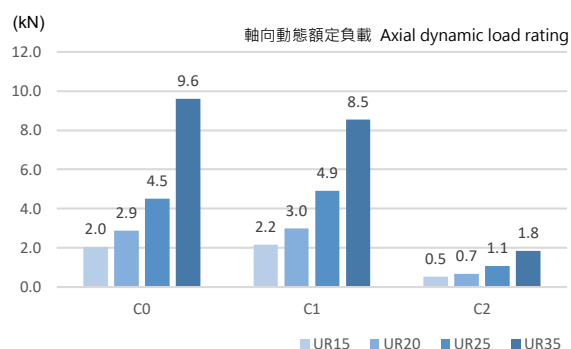
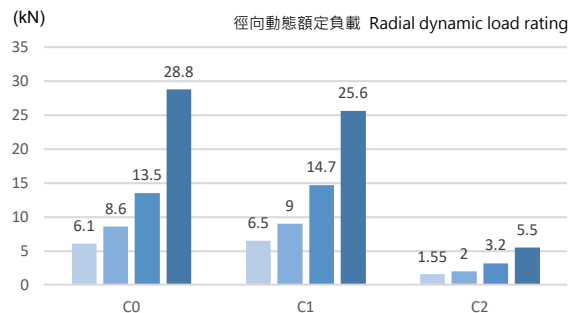
C0 = Static

C1 = Dynamic ; Rated life = 1000km

C2 = Dynamic ; Rated life = 100000km

※上述之負荷能力單指承受徑向力或軸向力，複合受力之情況請與我們聯繫。

*If you need to know the load when compound force, please contact us.

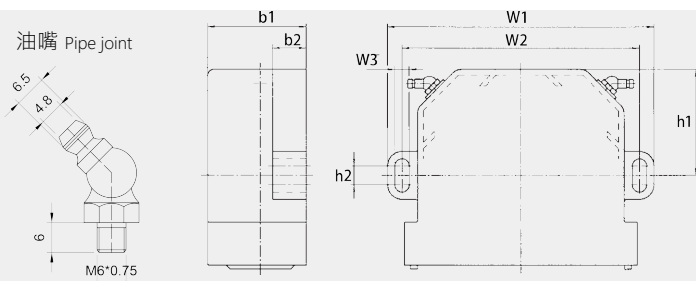


型號 Model	偏心量 Excenter	Ød	Ød1	W1	W2	W3	W4	W5	R	Ød2	Ød3	Ød4	W6	Ød5
UR15Y	1mm	47	13.5	35	12	12	1	9	R500	8.4	15h7	23.8	18.5	2.6x3
UR15N	0mm	47	13.5	35	12	12	1	9	R500	8.4	15h7	23.8	18.5	2.6x3
UR20Y	1mm	72	16.5	46	16	15	1	11	R500	10.5	20h7	27.7	22.5	2.6x3
UR20N	0mm	72	16.5	46	16	15	1	11	R500	10.5	20h7	27.7	22.5	2.6x3
UR25Y	1mm	85	20.5	60	20.5	20	1	13	R500	13	25h7	35.6	27.5	4.1x4.5
UR25N	0mm	85	20.5	60	20.5	20	1	13	R500	13	25h7	35.6	27.5	4.1x4.5
UR35Y	1mm	100	28.5	84	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5
UR35N	0mm	100	28.5	84	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5



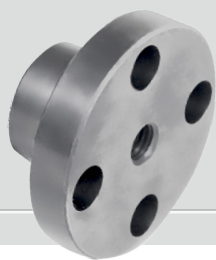
平型滾輪潤滑罩 Round type Roller Lubrication Case

型號介紹 | Code instruction



元件類型 Component	適用滾輪 For roller	軸外徑 Shaft Dia. (mm)
L = 潤滑罩	R = UR	15
L = Lubricate		20
		25
		35

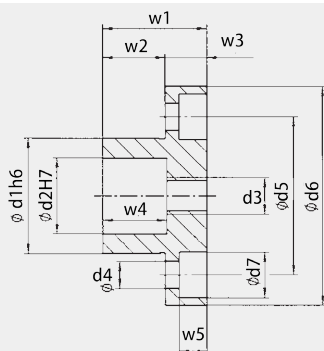
型號 Model	b1	b2	w1	w2	w3	h1	h2
LR15	26.5	12	75	65	4.5	27.5	7.5
LR20	34.5	12	102	91	5.5	40	7.5
LR25	44	15	120	107	6.5	47	8.5
LR35	63.5	15	135	122	6.5	54.5	8.5



滾輪安裝法蘭 Install Flange

FZ | Not Eccentric 正心

型號介紹 | Code instruction



元件功能 Application	型態 Type	軸外徑 Shaft Dia. (mm)	偏心率 Excenter
F = 安裝法蘭	Z = 正心法蘭 E = 偏心法蘭	15 20 25 35	Z = 0mm E = 1mm
F = Install Flange	Z = Standard E = Eccenter		

型號 Model	w1	w2	w3	w4	w5	d1h6	d2H7	d3	d4	d5	d6	d7
FZ15	24	14.5	9.5	12.5	5.7	26	15	M8	5.8	36	49	10
FZ20	29	18	11	16	6.8	30	20	M10	7	42	58	11
FZ25	34	20.5	13.5	21	9	38	25	M12	9	52	72	15
FZ35	39	22	17	26	11	59	40	M16	11	75	98	18

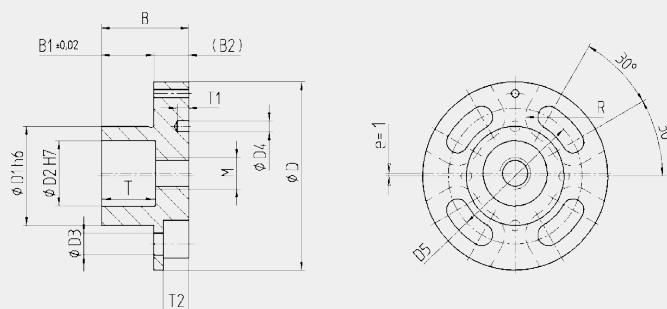


偏心安裝法蘭 Eccentric install Flange

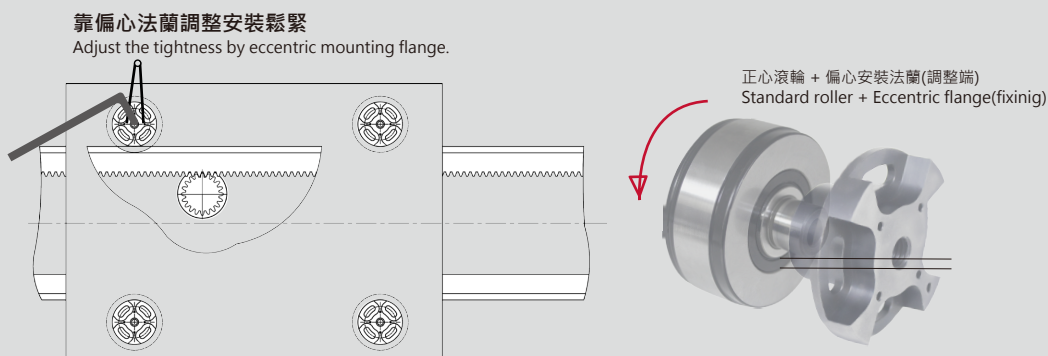
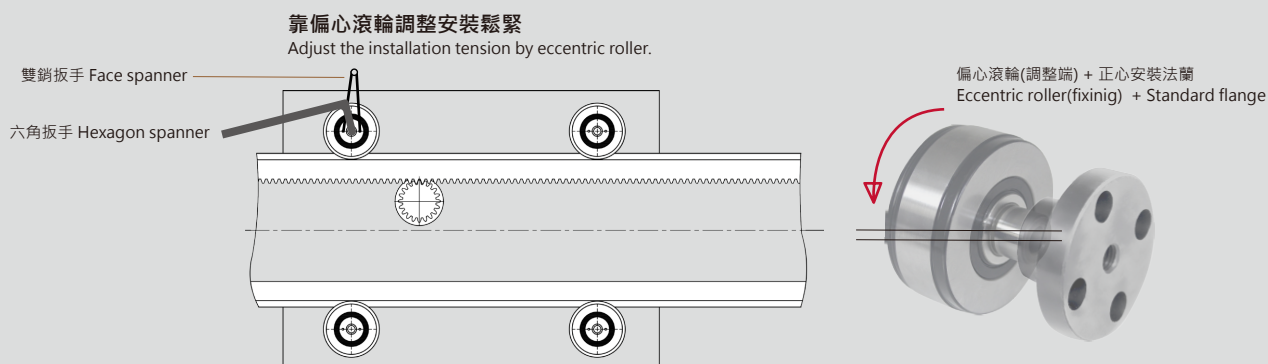
FE | Eccentric 偏心

型號介紹 | Code instruction

元件功能 Application	型態 Type	軸外徑 Shaft Dia. (mm)	偏心量 Excenter
F = 安裝法蘭	Z = 正心法蘭 E = 偏心法蘭	15 20 25 35	Z = 0mm E = 1mm
F = Install Flange	Z = Standard E = Eccenter		



型號 Model	B	B1	B2	D	D1h6	D2H7	D3	D4	D5	M	T	T1	T2	R
FE15	24	14.5	9.5	49	26	15	5.3	2.6	36	M6	12.5	3	6.3	6.5
FE20	29	18	11	58	30	20	6.4	2.6	42	M8	16	3	7.9	7.5
FE25	34	20.5	13.5	72	38	25	8.4	4.1	52	M12	21	4.5	9.9	9
FE35	39	22	17	98	59	40	10.5	4.1	75	M16	26	4.5	12.3	12



※上述為以直線傳動安裝作為安裝示範。
※直線軌道與帶齒軌道部分需另外搭配。

*The following is a demonstration of linear drive installation.
* The linear guideway and rack need additional matching.

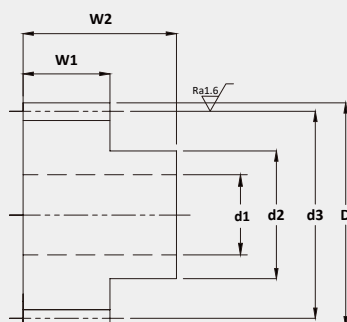


型號介紹 | Code instruction

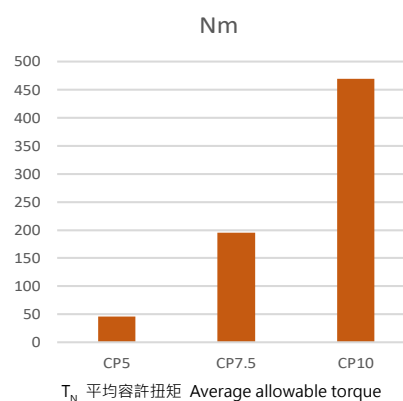
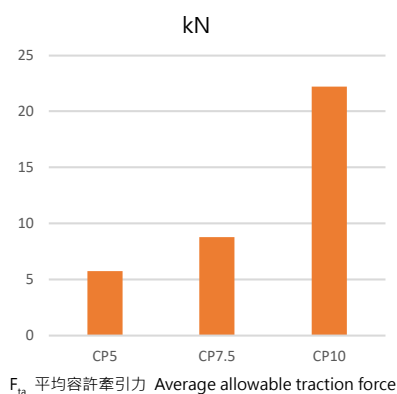
材料 Material	齒型 Type	棒型 Shape	表面處理 Surface	硬度處理 Hardness	周節 Circular pitch	齒數 Teeth	精度等級 Grade
C = C45 M = SCM440	S = 直齒	T = 四角形	G = 研磨	H = 硬化處理	CP 050 = 5 pitch CP 075 = 7.5 pitch CP 100 = 10 pitch	-	Q = DIN
	S = Straight	T = Tetragon	G = Ground	H = Hardness			

硬化處理後之硬度為 HRC 53 ~ 58°

Hardness = HRC 53 ~ 58°

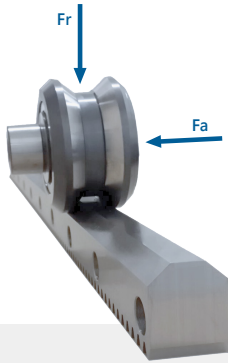


型號 Code	齒數 No. of Teeth	模數 Module	d1H7	d2	d3	D	w1	w2	F_{ta} (kN)	Kg
周節5 CP5										
MSGH-CP050 020-DIN6	20	1.5915	8	25	31.83	35.01	14.5	30	5.22	0.2
MSGH-CP050 025-DIN6	25	1.5915	10	32	39.79	42.97	14.5	30	5.59	0.3
MSGH-CP050 030-DIN6	30	1.5915	10	38	47.74	50.93	14.5	30	5.87	0.4
MSGH-CP050 040-DIN6	40	1.5915	12	50	63.66	66.84	14.5	30	6.23	0.6
周節7.5 CP7.5										
MSGH-CP075 020-DIN6	20	2.3873	15	40	47.74	52.5	19.5	30	8.79	0.9
周節10 CP10										
MSGH-CP100 020-DIN6	20	3.1831	15	50	63.66	70.03	29.5	50	20.9	1.1
MSGH-CP100 030-DIN6	30	3.1831	20	75	95.49	101.86	29.5	50	23.5	1.9



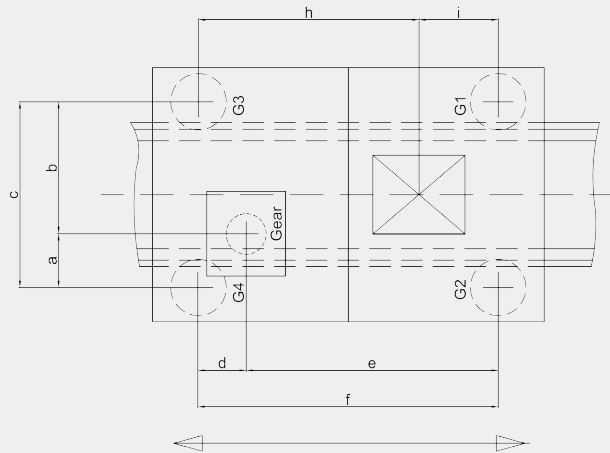
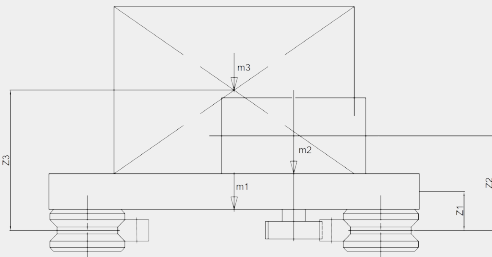
直線導向案例 - 簡易計算

Simple calculation of Linear guidance case



UV	kr	Cw
15	1.555	13.4
20	1.882	18.0
25	2.199	27.0
35	3.075	42.0

UR	kr	Cw
15	1.447	13.1
20	2.262	18.0
25	2.670	27.0
35	3.142	43.0



m1 = 載板重量 (Kg)
 m2 = 馬達減速機重量 (Kg)
 m3 = 載荷重量 (Kg)
 V = 工作速度 (m/s)
 a = 啟動加速度 (m/s²)
 fc = 馬達服務係數 1.0 ~ 1.2
 kr = 滾輪尺寸係數
 Cw = 有效基本額定載荷 (kN)
 C0 = 滾輪最大容許靜態軸向力 (kN)

m1 = Carriage board (Kg)
 m2 = Servo motor & gearbox (Kg)
 m3 = Load (Kg)
 V = Working speed (m/s)
 a = Acceleration (m/s²)
 fc = Service coefficient 1.0 ~ 1.2
 kr = roller size coefficient
 Cw = Effective basic dynamic load rating
 C0 = Maximum admissible static radial force (kN)

1. 水平加速力 F (N)

$$F_1 = m1 * a$$

$$F_2 = m2 * a$$

$$F_3 = m3 * a$$

2. 水平加速之垂直力 Fv (N)

$$Fv_1 = F_1 * \frac{Z_1}{f}$$

$$Fv_2 = F_2 * \frac{Z_2}{f}$$

$$Fv_3 = F_3 * \frac{Z_3}{f}$$

3. 水平加速之滾輪軸向力 F_G (N)

$$F_{G1} = F_{G3} = \frac{Fv_1}{2} + Fv_2 * \frac{a}{c} + \frac{Fv_3}{2}$$

$$F_{G2} = F_{G4} = \frac{Fv_1}{2} + Fv_2 * \frac{b}{c} + \frac{Fv_3}{2}$$

4. 滾輪總軸向力 Ft_G (N)

$$Ft_{G1} = \left(\frac{m1}{4} + m2 * \frac{a}{c} * \frac{d}{f} + m3 * \frac{\left(\frac{c}{2}\right)}{c} * \frac{h}{f} \right) * 9.8 + F_{G1}$$

$$Ft_{G2} = \left(\frac{m1}{4} + m2 * \frac{b}{c} * \frac{d}{f} + m3 * \frac{\left(\frac{c}{2}\right)}{c} * \frac{h}{f} \right) * 9.8 + F_{G2}$$

$$Ft_{G3} = \left(\frac{m1}{4} + m2 * \frac{a}{c} * \frac{e}{f} + m3 * \frac{\left(\frac{c}{2}\right)}{c} * \frac{i}{f} \right) * 9.8 + F_{G3}$$

$$Ft_{G4} = \left(\frac{m1}{4} + m2 * \frac{b}{c} * \frac{e}{f} + m3 * \frac{\left(\frac{c}{2}\right)}{c} * \frac{i}{f} \right) * 9.8 + F_{G4}$$

驗證安全係數 fs > 1

$$Fa = \max\{ Ft_{G1}, Ft_{G2}, Ft_{G3}, Ft_{G4} \}$$

$$Fr = 0$$

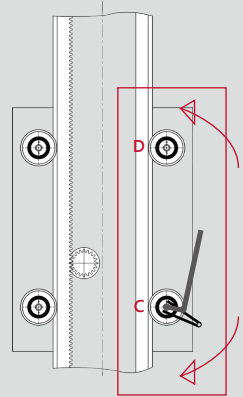
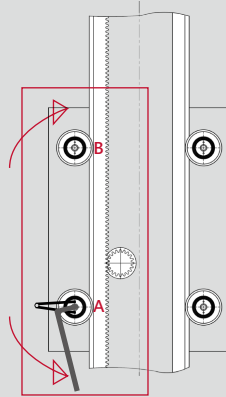
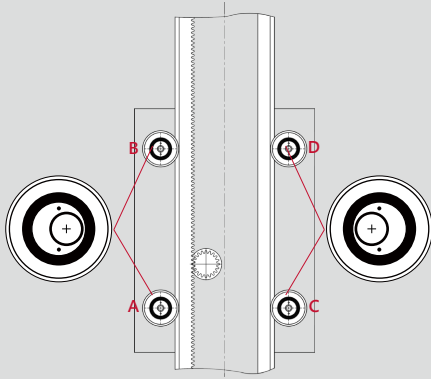
$$fs = 0.7 * \frac{C0}{fc * (Fr + 3 * Fa)} > 1$$

驗證壽命 Life (Km)

$$Life = kr * \left(\frac{Cw}{fc * (Fr + 3 * Fa)} \right)^3 * 10^2$$

直線導向案例 - 安裝簡介

Install intro of Linear guidance case



1. 初步階段
先將所有偏心滾輪的偏心軸軸心
偏向軌道端1mm距離。

*若為垂掛式安裝
將上排滾輪(始終保持向下受力)
改為使用正心滾輪。

2. 首先調整靠齒輪咬合端的偏心滾輪A・B。
使用六角板手及雙鉋板手調整偏心軸。
先調整A後調整B，相互向外旋轉調整。
確保齒輪與齒條之咬合正確。

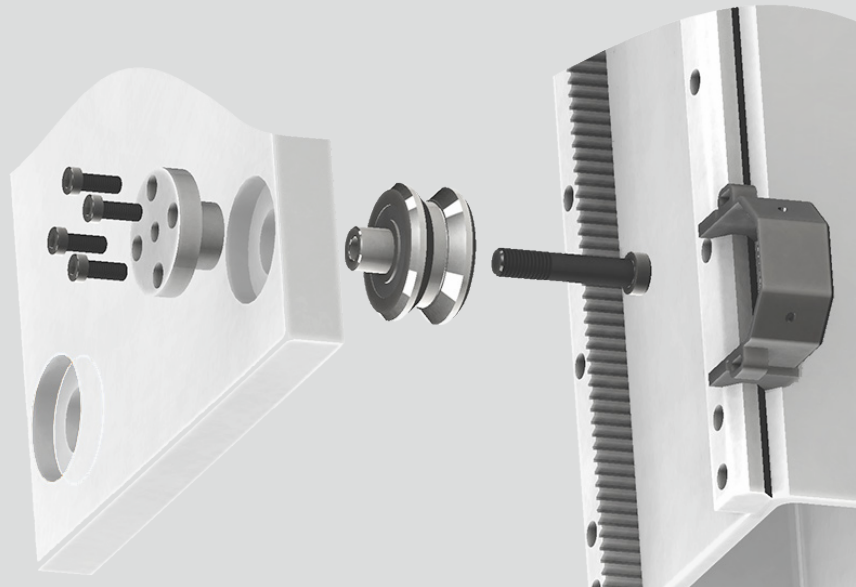
3. 將齒條測的滾輪調整完畢後再調整C・D端。
使用六角板手及雙鉋板手調整偏心軸。
先調整C後調整D，相互向外旋轉調整。
再次檢查齒輪與齒條咬合狀況，
若咬合狀況尚須調整，則再回上一步調整。

1. At first
Eccentric shaft axis of all eccentric rollers
1mm away from the guideway.

* For hanging installation
Turn the upper row of rollers
(always keep the force down)
Use a centered roller instead.

2. First adjust the eccentric rollers A and B that
rely on the meshing end of the gear.
Use a hex wrench and an end wrench
to adjust the eccentric shaft.
Adjust A and then B, and rotate outward to adjust.
Make sure the gear and rack mesh properly.

3. Adjust the C and D ends after adjusting the rollers
for rack testing.
Use a hex wrench and an end wrench
to adjust the eccentric shaft.
First adjust C and then D, and rotate outward to adjust.
Check the gear and rack meshing again,
If the occlusion condition still needs to be adjusted,
go back to the previous step to adjust.

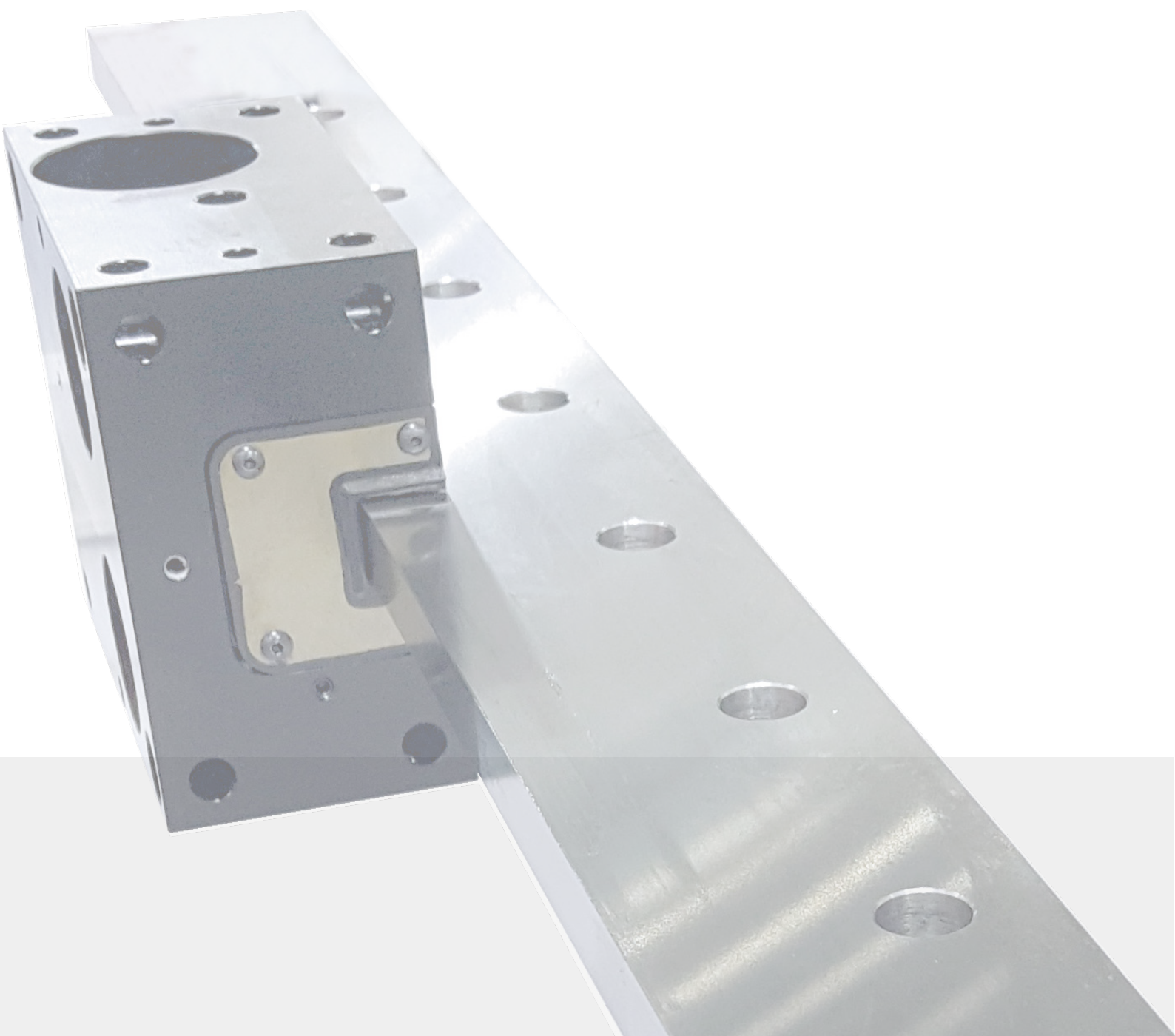


※上述為以直線傳動安裝作為安裝示範。
※直線軌道與帶齒軌道部分需另外搭配。

*The following is a demonstration of linear drive installation.
* The linear guideway and rack need additional matching.

高速 重負載
直線傳動元件系列

Heavy load, high speed
linear transmission component series



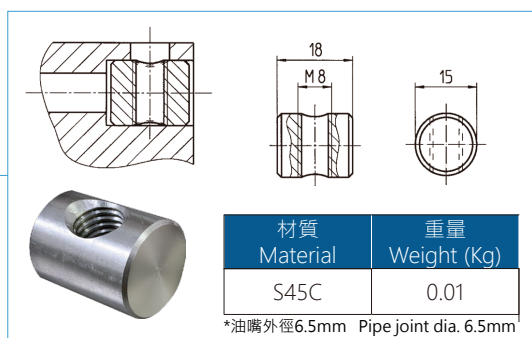
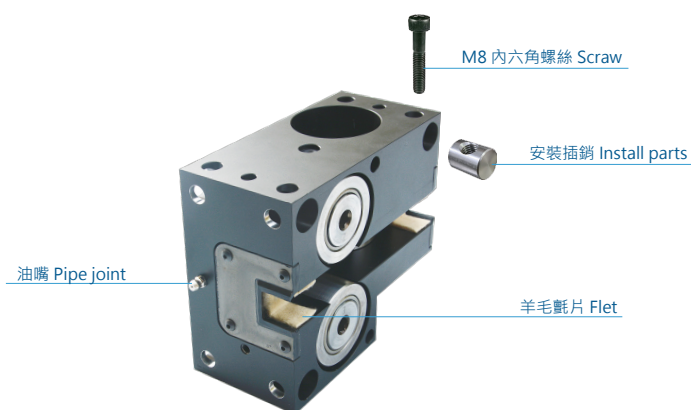
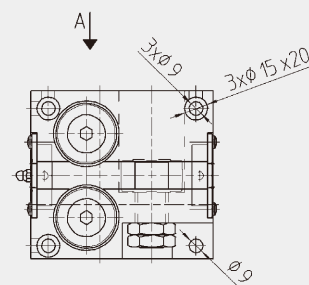
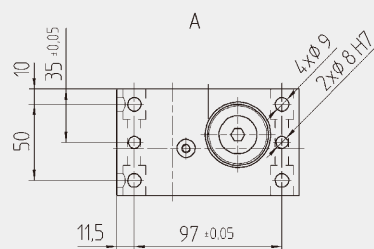
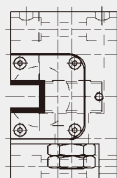
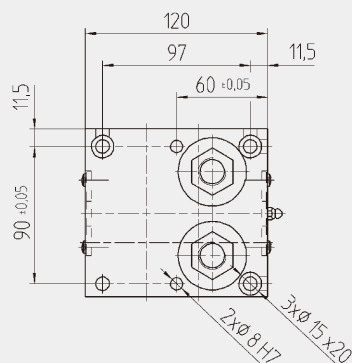
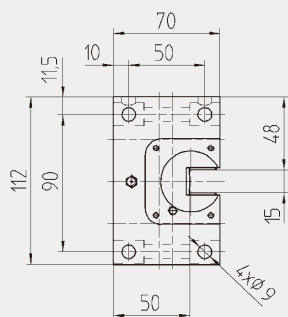
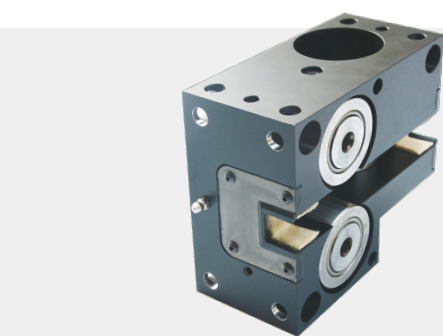
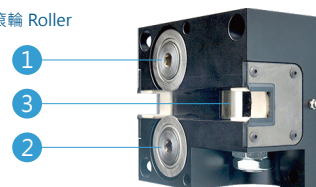
40重載荷高速直線導軌系統 Heavy duty guideway system

40滾輪模組(右側) Roller slider (Right side)

型號介紹 | Code instruction

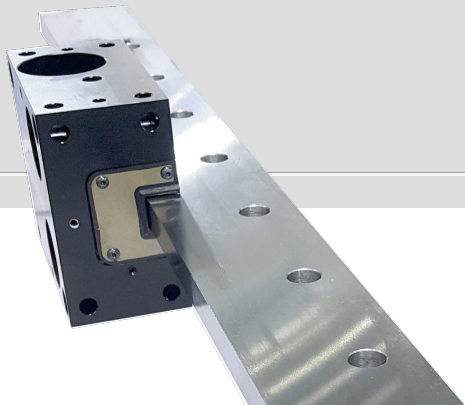
型號 Model		滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed rpm	重量 weight (Kg)
		1	2	3		C0	C1	C2		
PLR40-R	1	ZR	PR	PR	AlZnMg3Cu	14000	7100	1900	5000	2.5
	2	ZR	PR	ZR						
	3	PR	ZR	PR						

滾輪 Roller



*當您選購40/52型號的滾輪模組時會配給對應的安裝插銷。

*When you purchase the roller module of the 40/52 model, the corresponding number of Install parts are attached.



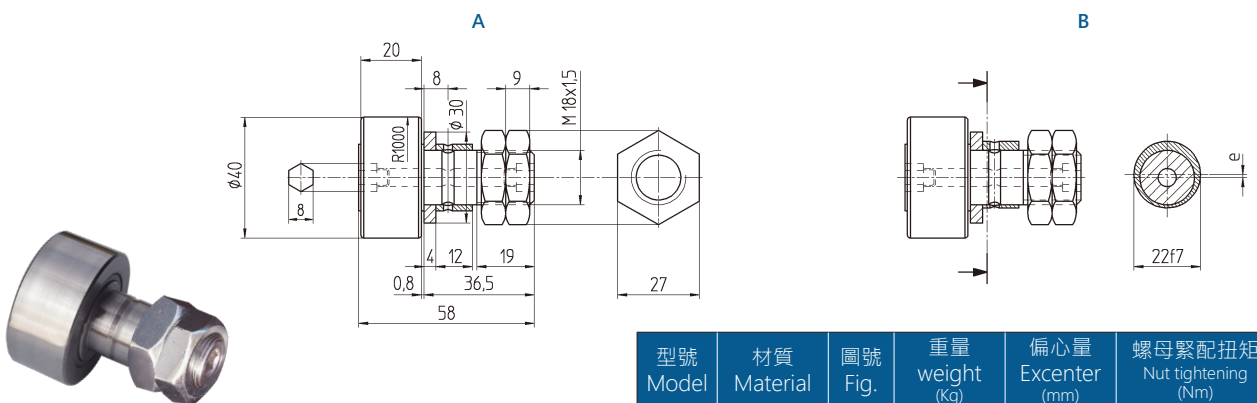
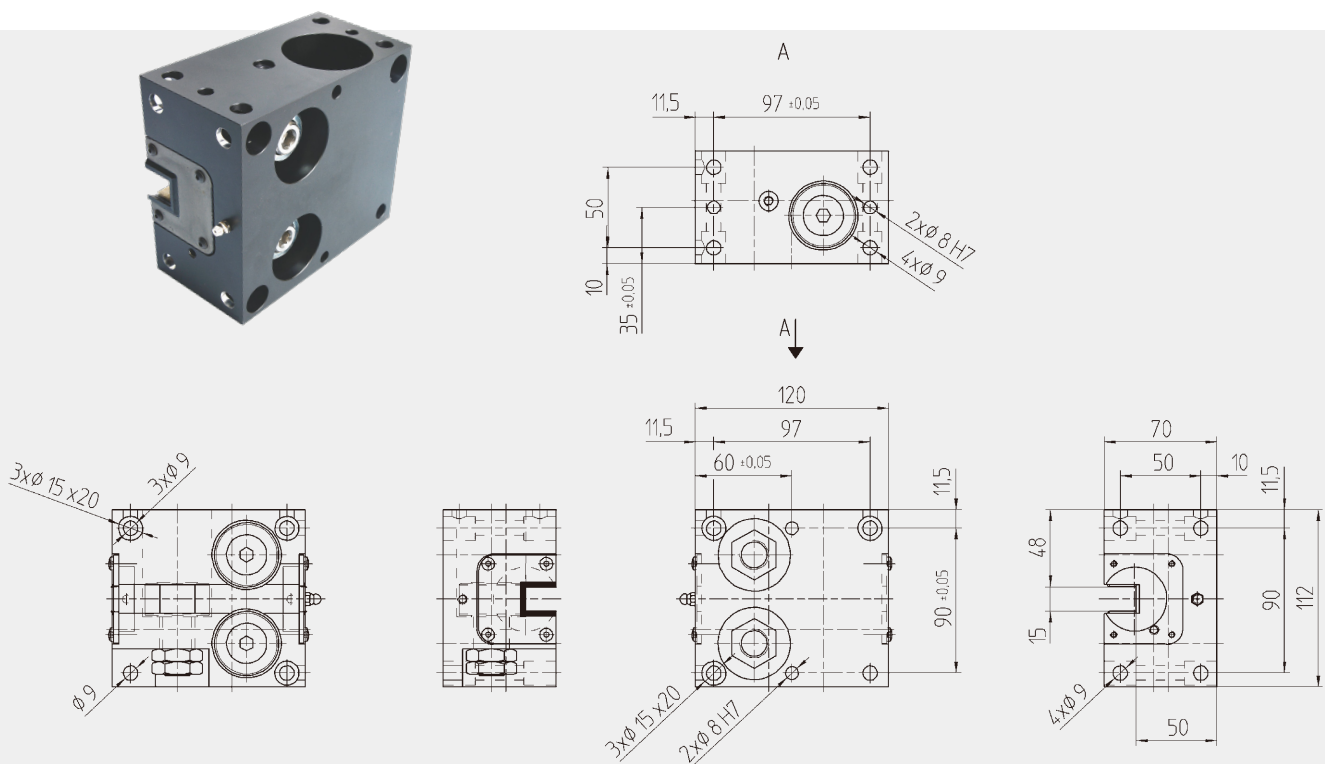
40滾輪模組(左側) Roller slider (Left side)

型號介紹 | Code instruction

C0 = 靜態負荷
C1 = 動態負荷；額定壽命 = 1000km
C2 = 動態負荷；額定壽命 = 100000km

C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

型號 Model		滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
		1	2	3		C0	C1	C2		
PLR40-L	1	ZR	PR	PR	AlZnMg3Cu	14000	7100	1900	5000	2.5
	2	ZR	PR	ZR						
	3	PR	ZR	PR						



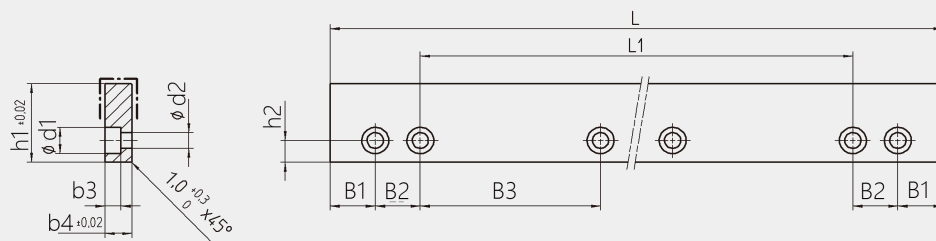
型號 Model	材質 Material	圖號 Fig.	重量 weight (kg)	偏心量 Excenter (mm)	螺母緊配扭矩 Nut tightening (Nm)
ZR 40	100Cr6	A	0.26	0	87
PR 40		B		1	

40重載荷高速直線導軌系統 Heavy duty guideway system

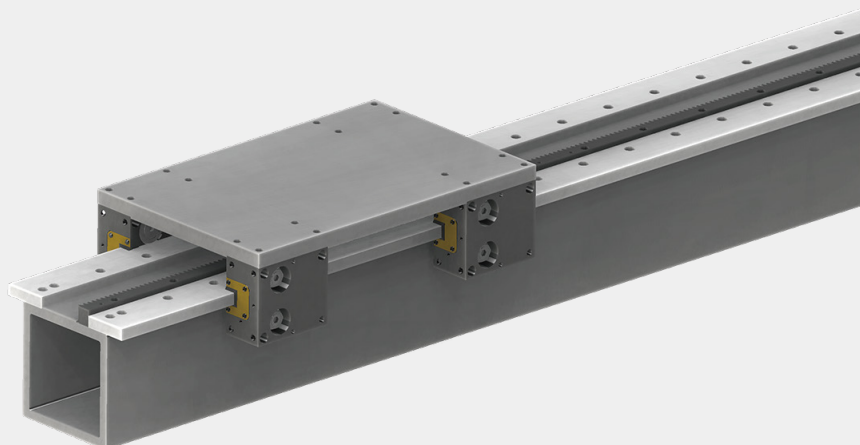
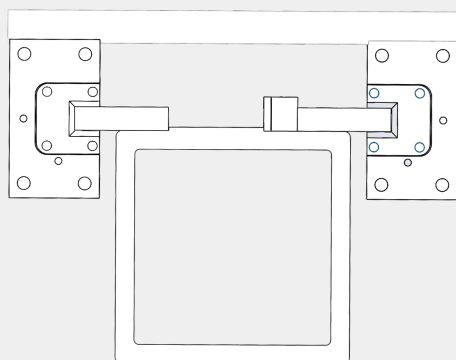
40扁軌道 Flat type guideway

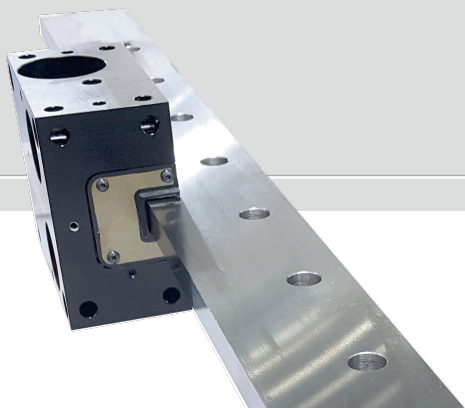
型號介紹 | Code instruction

型號 Model	材質 Material	重量 weight (Kg)	行程長度 Length (mm)	軌道寬度 Width (mm)	使用螺絲 Scraw	緊配扭矩 Tightening torque (Nm)
SP-4045	S45C	4.8	1000	45	M8x20	24
SP-4080		10.8	1200	80		
SP-4080		18	2000	80		

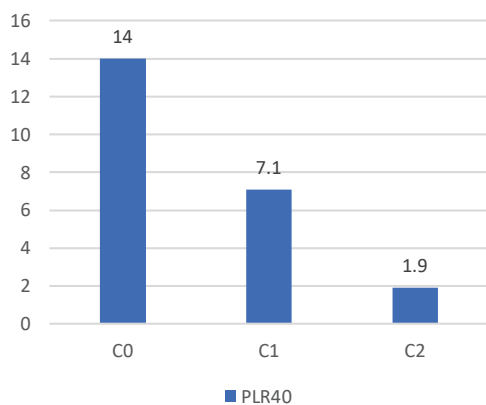


型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-4045	25	25	100	15	9	45	12.5	1000	900	9	15
SP-4080	25	25	100	15	9	80	25	1200	1100	9	15
SP-4080	25	25	100	15	9	80	25	2000	1900	9	15





(kN) 滾輪負荷能力 Roller loading



C0 = 靜態負荷

C1 = 動態負荷；額定壽命 = 1000km

C2 = 動態負荷；額定壽命 = 100000km

C0 = Static

C1 = Dynamic ; Rated life = 1000km

C2 = Dynamic ; Rated life = 100000km

52重載荷高速直線導軌系統 Heavy duty guideway system

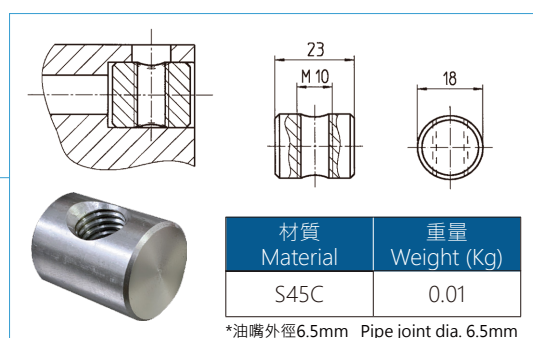
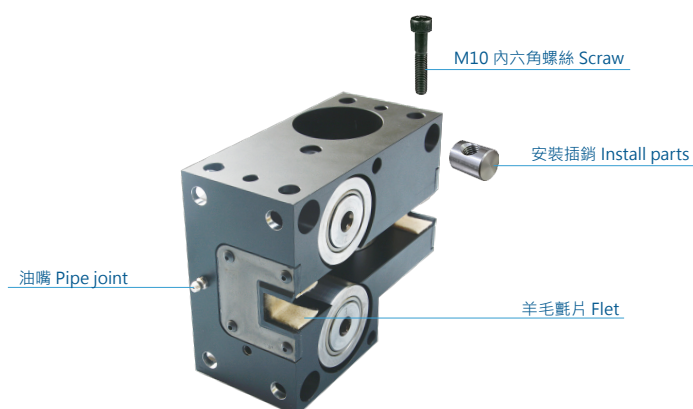
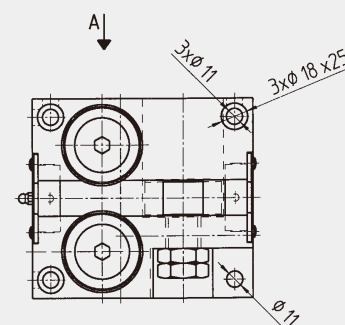
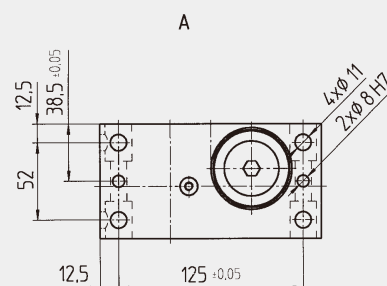
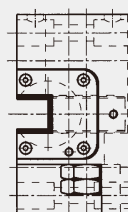
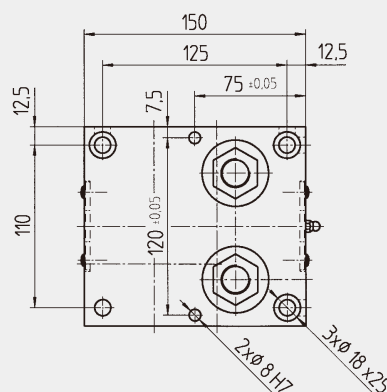
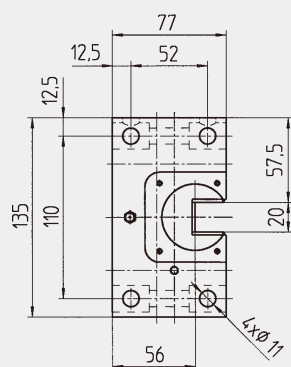
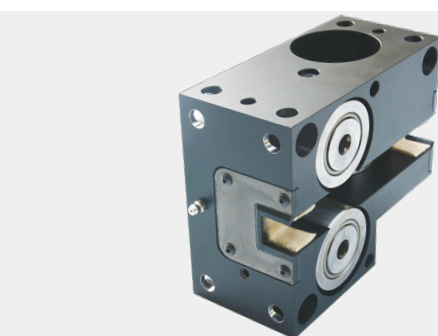
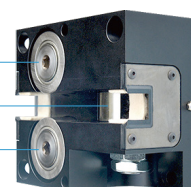
52滾輪模組(右側) Roller slider (Right side)

型號介紹 | Code instruction

型號 Model		滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
		1	2	3		C0	C1	C2		
PLR52-R	1	ZR	PR	PR	AlZnMg3Cu	28000	14500	3550	3800	4.0
	2	ZR	PR	ZR						
	3	PR	ZR	PR						

滾輪 Roller

1
3
2



*當您選購40/52型號的滾輪模組時會配給對應的安裝插銷。

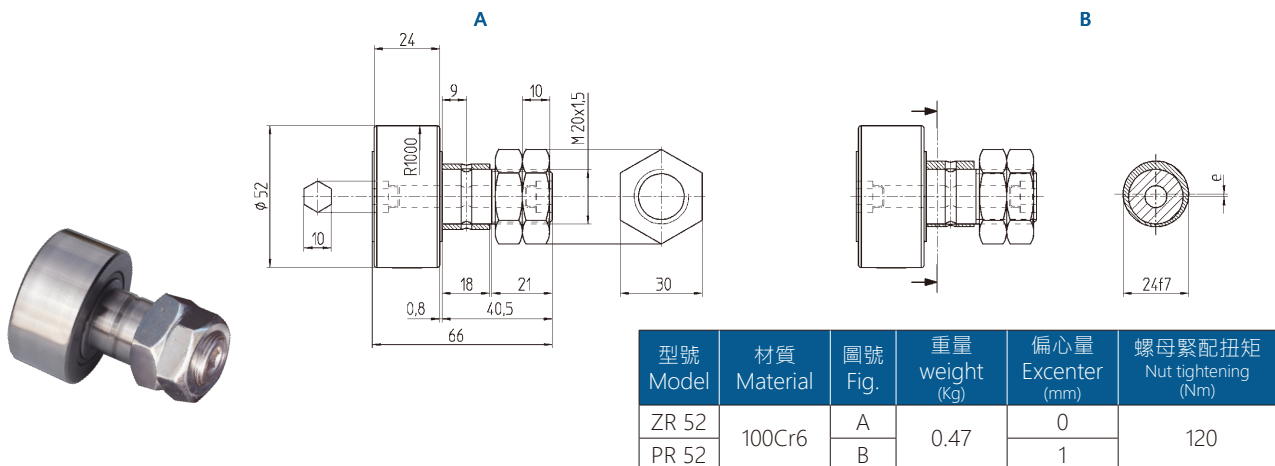
*When you purchase the roller module of the 40/52 model, the corresponding number of Install parts are attached.



C0 = 靜態負荷
C1 = 動態負荷；額定壽命 = 1000km
C2 = 動態負荷；額定壽命 = 100000km

C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

型號 Model		滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
		1	2	3		C0	C1	C2		
PLR52-L	1	ZR	PR	PR	AlZnMg3Cu	28000	14500	3550	3800	4.0
	2	ZR	PR	ZR						
	3	PR	ZR	PR						

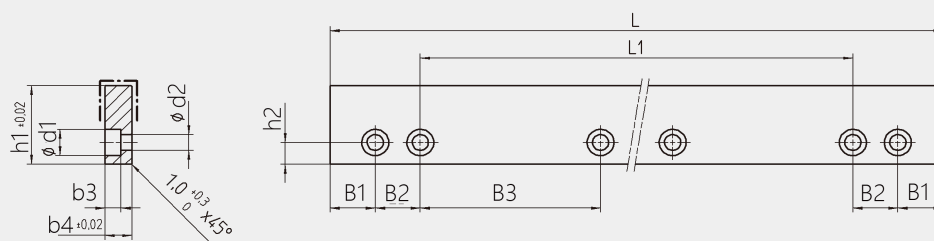


52重載荷高速直線導軌系統 Heavy duty guideway system

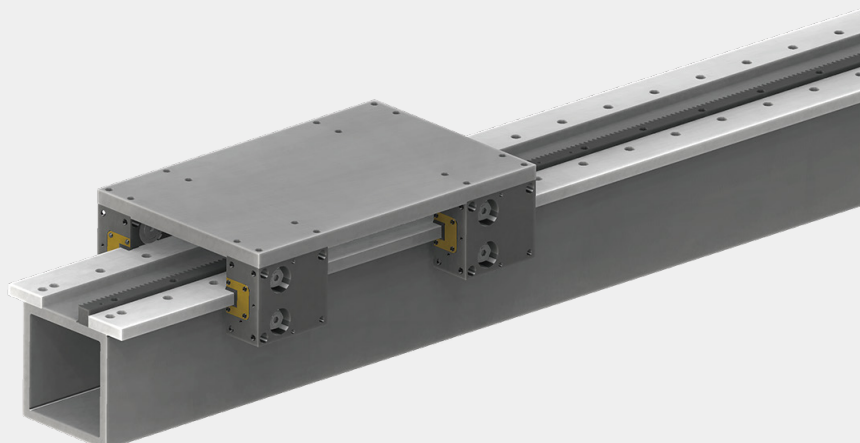
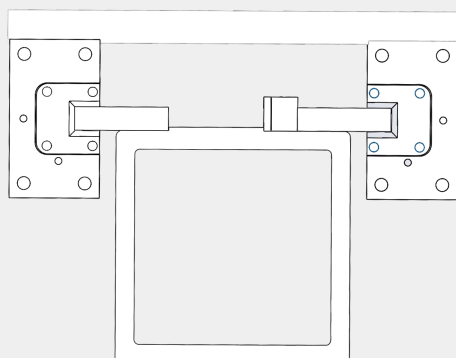
52扁軌道 Flat type guideway

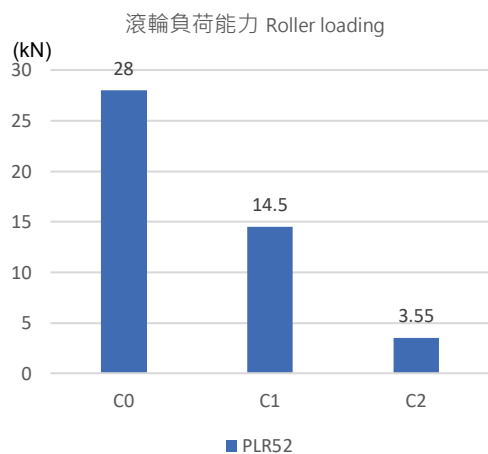
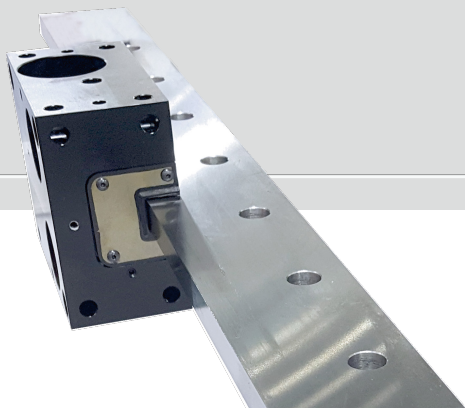
型號介紹 | Code instruction

型號 Model	材質 Material	重量 weight (Kg)	行程長度 Length (mm)	軌道寬度 Width (mm)	使用螺絲 Screw	緊配扭矩 Tightening torque (Nm)
SP-5670	S45C	12.6	1200	70	M10x25	48
		21	2000	70		
SP-5680		13.7	1200	80		
		22.9	2000	80		



型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-5670	25	25	100	18	11	70	25	1200	1100	11	20
SP-5670	25	25	100	18	11	70	25	2000	1900	11	20
SP-5680	25	25	100	18	11	80	25	1200	1100	11	20
SP-5680	25	25	100	18	11	80	25	2000	1900	11	20





C0 = 靜態負荷

C1 = 動態負荷；額定壽命 = 1000km

C2 = 動態負荷；額定壽命 = 100000km

C0 = Static

C1 = Dynamic ; Rated life = 1000km

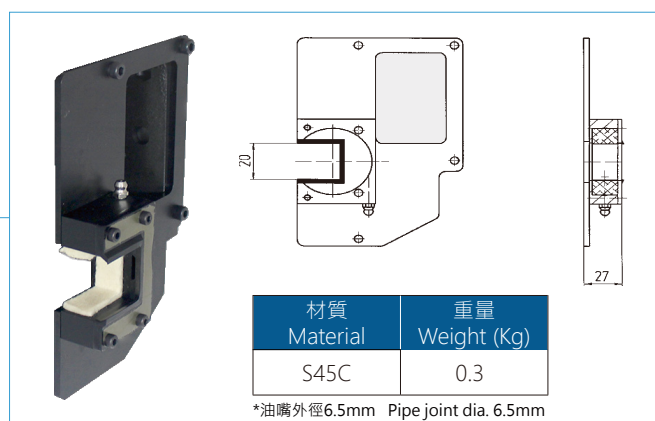
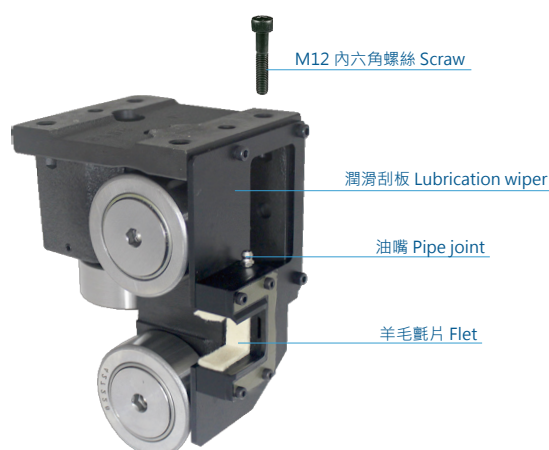
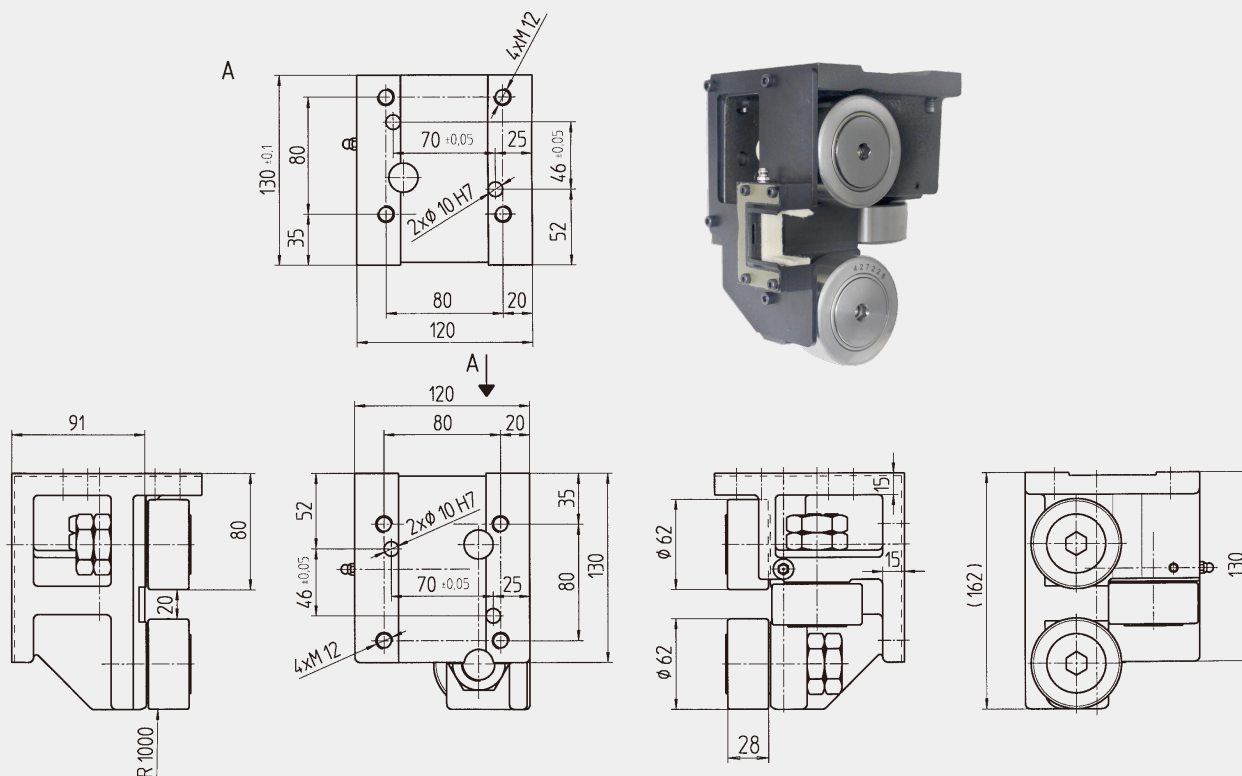
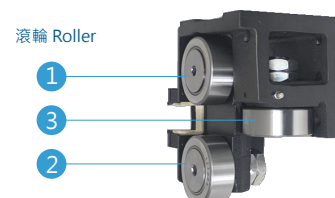
C2 = Dynamic ; Rated life = 100000km

62重載荷高速直線導軌系統 Heavy duty guideway system

62滾輪模組(右側) Roller slider (Right side)

型號介紹 | Code instruction

型號 Model	滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
	1	2	3		C0	C1	C2		
PLR62-R	1	ZR	PR	GGG40	40000	21500	5500	2200	7.0
	2	ZR	PR						
	3	PR	ZR						



*當您選購62/72/90型號的滾輪模組，發貨時會預先安裝對應的潤滑刮板。

*When you purchase the roller module of the 62/72/90 model, the lubrication wiper is pre-installed.



C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

Technical drawing of a mechanical part, showing a perspective view and three orthographic views (front, top, and side). The part is a rectangular block with a central slot and various mounting holes. Dimensions are provided in millimeters.

Orthographic Views:

- Front View:** Shows a rectangular block with a central slot. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total height of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the front face.
- Top View:** Shows the top of the block. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total depth of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the top face.
- Side View:** Shows the side of the block. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total depth of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the side face.

Technical Drawing:

- Orthographic Views:**
 - Front View:** Shows a rectangular block with a central slot. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total height of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the front face.
 - Top View:** Shows the top of the block. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total depth of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the top face.
 - Side View:** Shows the side of the block. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total depth of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the side face.
- Technical Drawing:**
 - Orthographic Views:**
 - Front View:** Shows a rectangular block with a central slot. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total height of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the front face.
 - Top View:** Shows the top of the block. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total depth of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the top face.
 - Side View:** Shows the side of the block. Dimensions include a total width of 120 mm, a central slot width of 80 mm, and a total depth of 130 mm. The slot is 70 mm wide and 46 mm deep. There are four mounting holes (2x $\phi 10$ H7) on the side face.



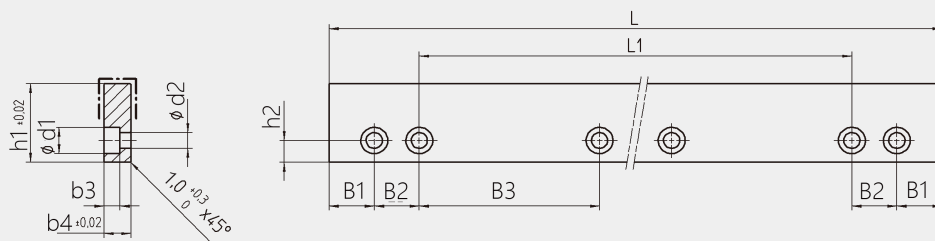
型號 Model	材質 Material	圖號 Fig.	重量 weight (Kg)	偏心量 Excenter (mm)	螺母緊配扭矩 Nut tightening (Nm)
ZR 62	100Cr6	A	0.82	0	220
PR 62		B		1	

62重載荷高速直線導軌系統 Heavy duty guideway system

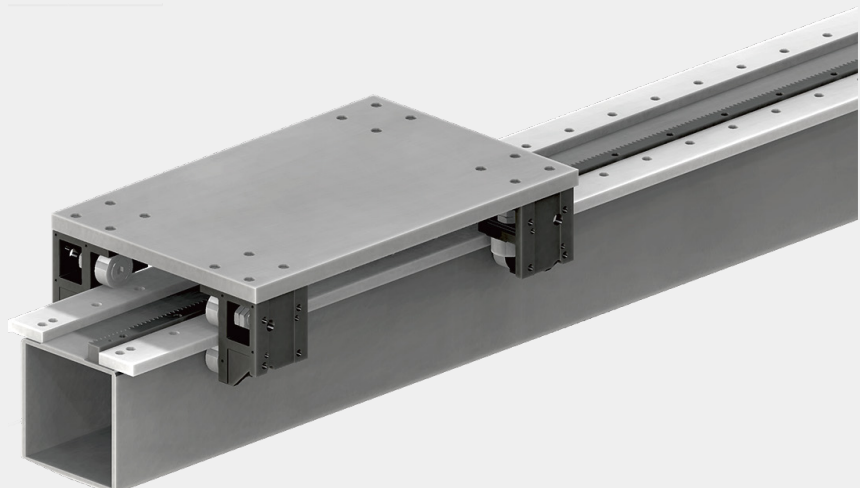
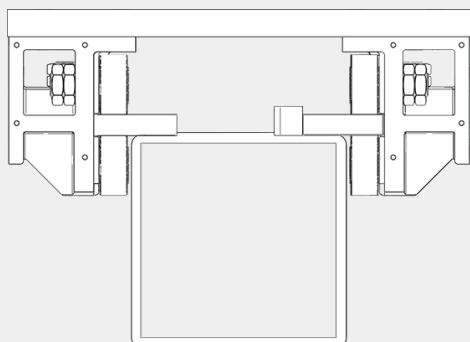
62扁軌道 Flat type guideway

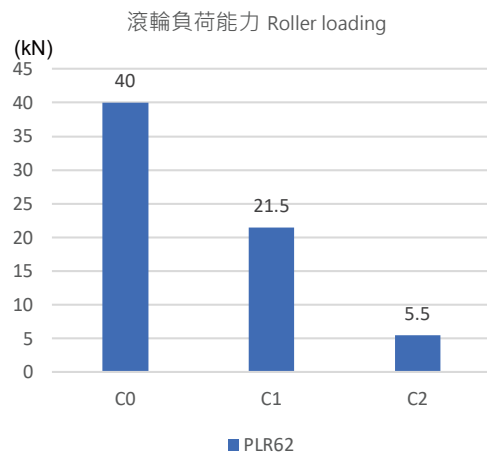
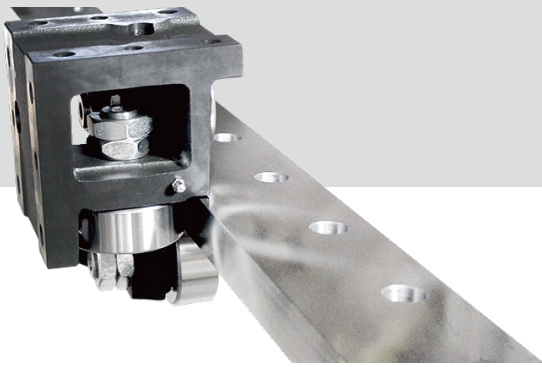
型號介紹 | Code instruction

型號 Model	材質 Material	重量 weight (Kg)	行程長度 Length (mm)	軌道寬度 Width (mm)	使用螺絲 Screw	緊配扭矩 Tightening torque (Nm)
SP-5670	S45C	12.6	1200	70	M10x25	48
		21	2000	70		
SP-5680		13.7	1200	80		
		22.9	2000	80		



型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-5670	25	25	100	18	11	70	25	1200	1100	11	20
SP-5670	25	25	100	18	11	70	25	2000	1900	11	20
SP-5680	25	25	100	18	11	80	25	1200	1100	11	20
SP-5680	25	25	100	18	11	80	25	2000	1900	11	20





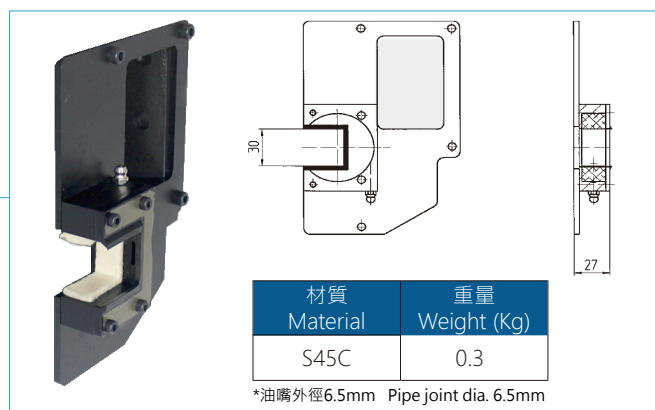
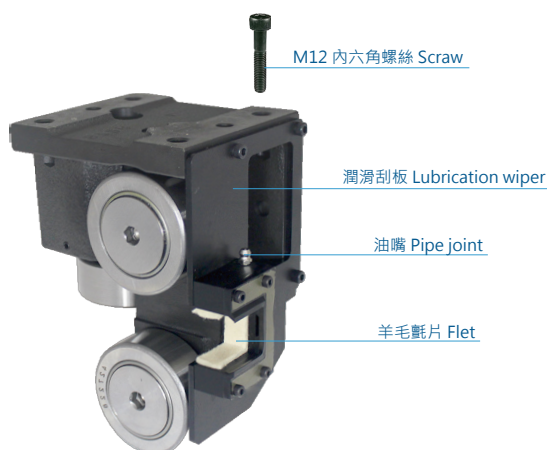
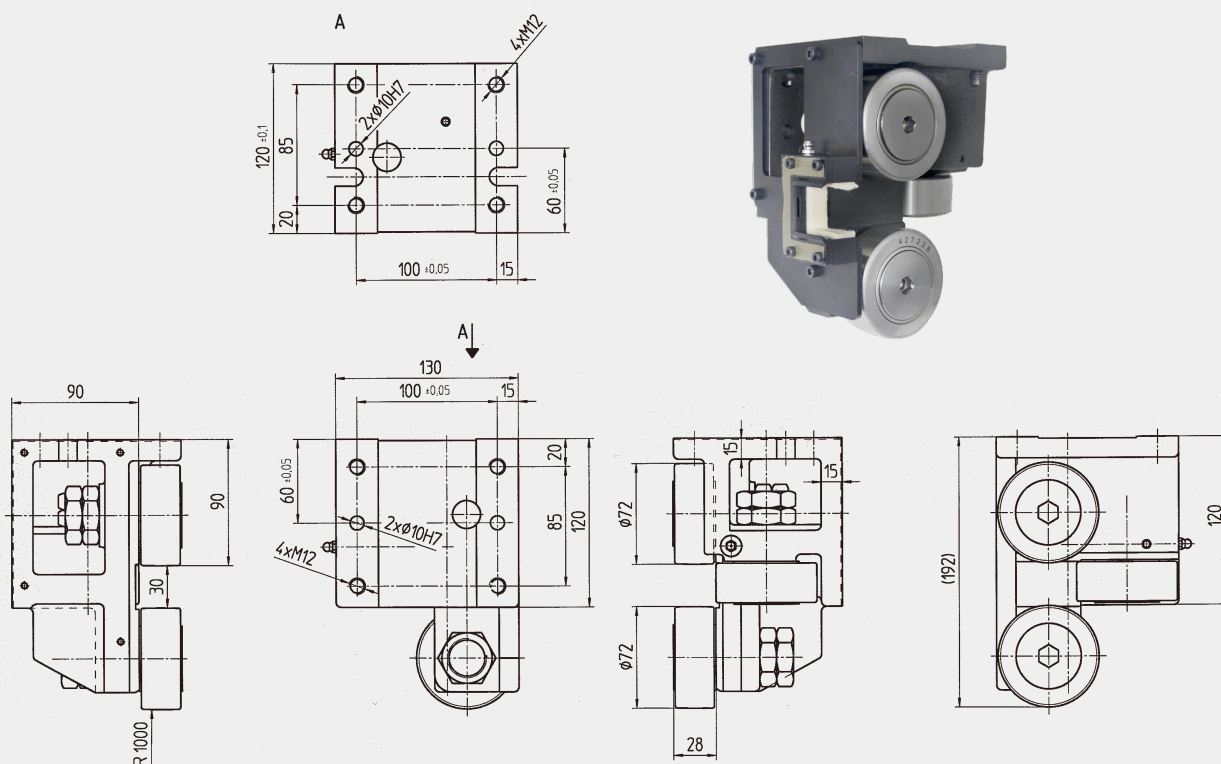
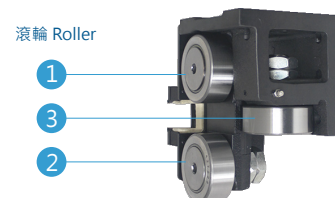
C0 = 靜態負荷	C0 = Static
C1 = 動態負荷；額定壽命 = 1000km	C1 = Dynamic ; Rated life = 1000km
C2 = 動態負荷；額定壽命 = 100000km	C2 = Dynamic ; Rated life = 100000km

72重載荷高速直線導軌系統 Heavy duty guideway system

72滾輪模組(右側) Roller slider (Right side)

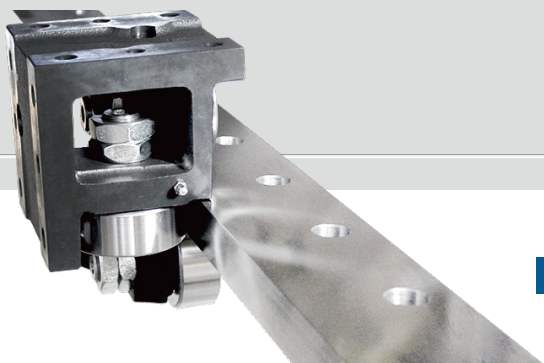
型號介紹 | Code instruction

型號 Model	滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
	1	2	3		C0	C1	C2		
PLR72-R	1	ZR	PR	GGG40	46300	24500	6100	2200	9.0
	2	ZR	PR						
	3	PR	ZR						



*當您選購62/72/90型號的滾輪模組，發貨時會預先安裝對應的潤滑刮板。

*When you purchase the roller module of the 62/72/90 model, the lubrication wiper is pre-installed.



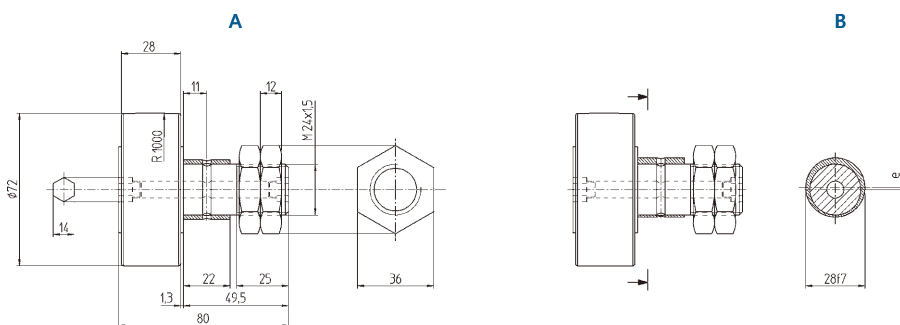
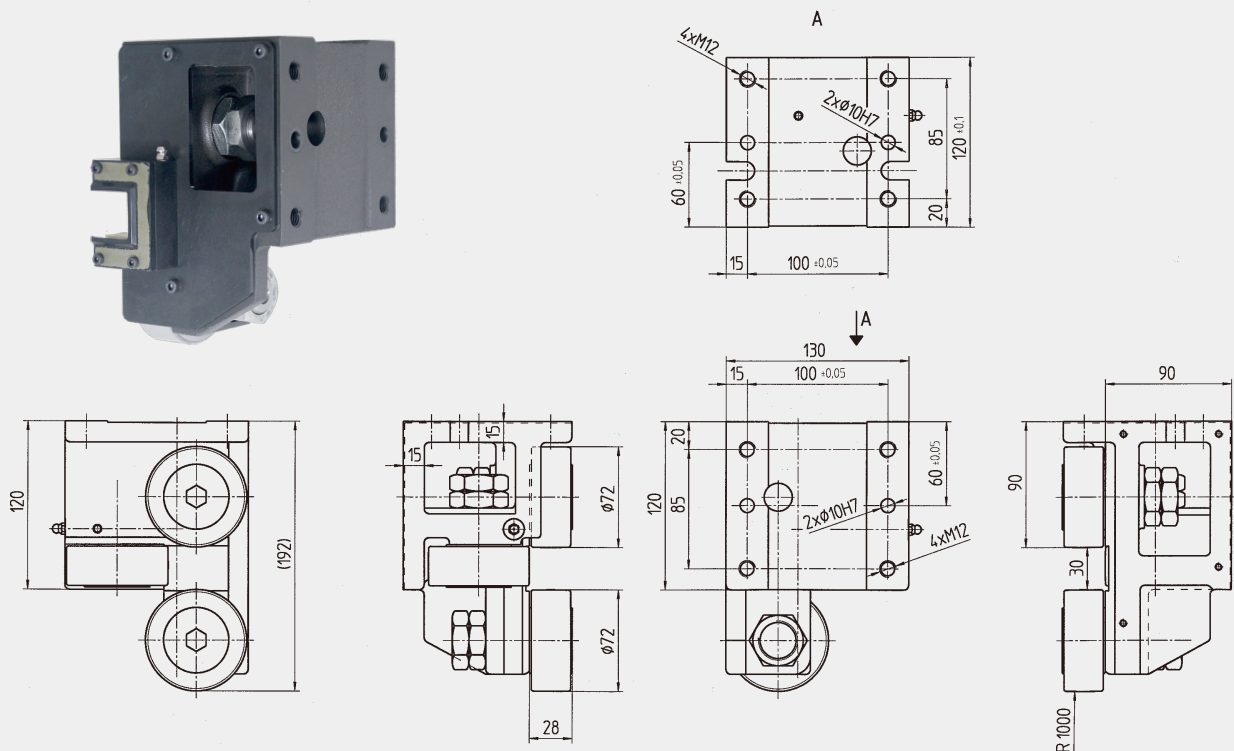
72滾輪模組(左側) Roller slider (Left side)

型號介紹 | Code instruction

C0 = 靜態負荷
C1 = 動態負荷；額定壽命 = 1000km
C2 = 動態負荷；額定壽命 = 100000km

C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

型號 Model	滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
	1	2	3		C0	C1	C2		
PLR72-L	1	ZR	PR	GGG40	46300	24500	6100	2200	9.0
	2	ZR	PR						
	3	PR	ZR						



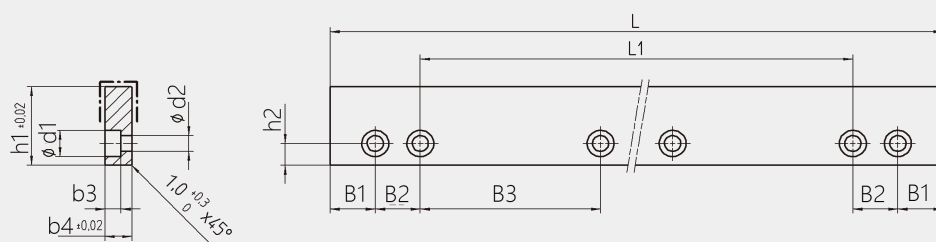
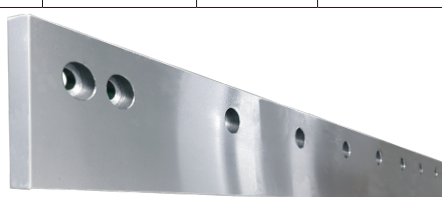
型號 Model	材質 Material	圖號 Fig.	重量 weight (kg)	偏心量 Excenter (mm)	螺母緊配扭矩 Nut tightening (Nm)
ZR 72	100Cr6	A	1.05	0	220
PR 72		B		1	

72重載荷高速直線導軌系統 Heavy duty guideway system

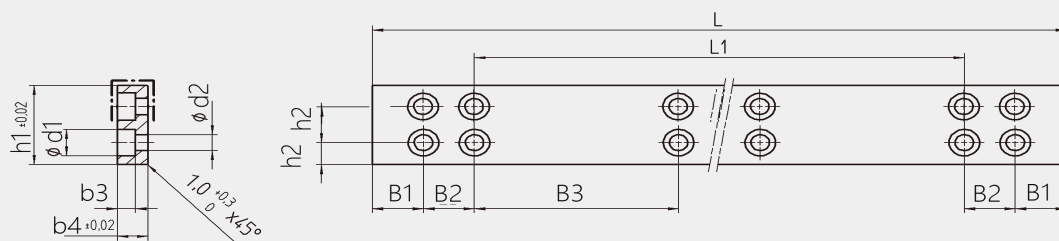
72扁軌道 Flat type guideway

型號介紹 | Code instruction

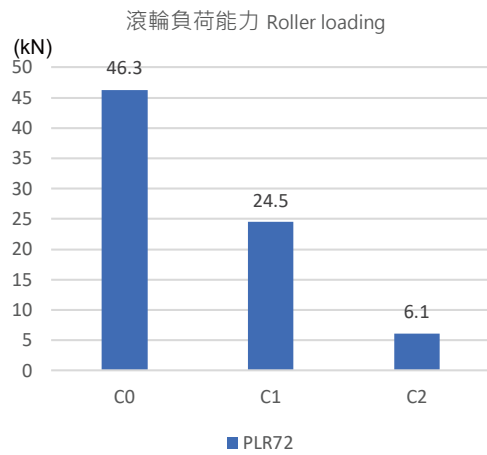
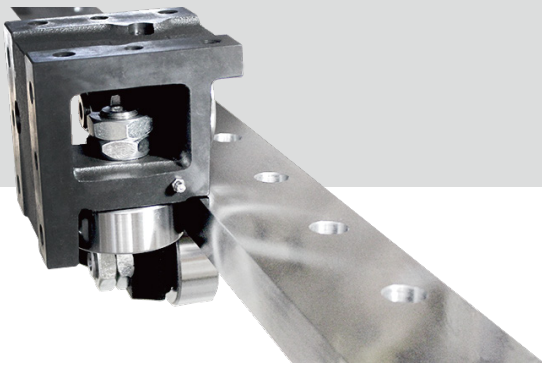
型號 Model	材質 Material	重量 weight (Kg)	行程長度 Length (mm)	軌道寬度 Width (mm)	使用螺絲 Screw	緊配扭矩 Tightening torque (Nm)
SP-7080	S45C	20.8	1200	80	M12x35	83
		34.7	2000	80		
SP-70A2		33.7	1200	120		
		56.1	2000	120		



型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-7080	25	25	100	20	13.5	80	25	1200	1100	13	30
SP-7080	25	25	100	20	13.5	80	25	2000	1900	13	30

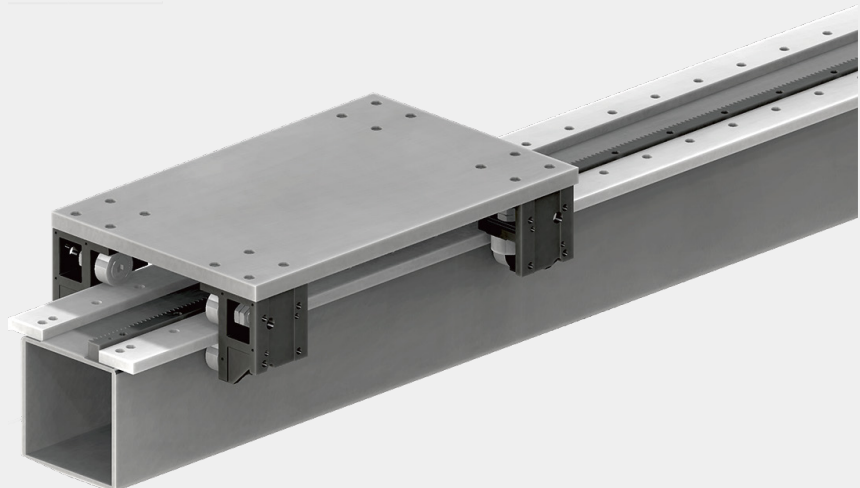
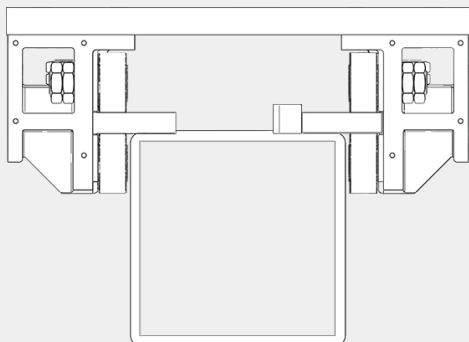


型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-70A2	25	25	100	20	13.5	120	25	1200	1100	13	30
SP-70A2	25	25	100	20	13.5	120	25	2000	1900	13	30



C0 = 靜態負荷
C1 = 動態負荷；額定壽命 = 1000km
C2 = 動態負荷；額定壽命 = 100000km

C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

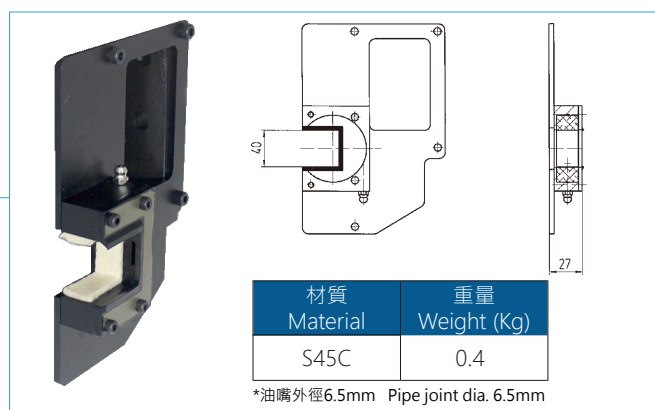
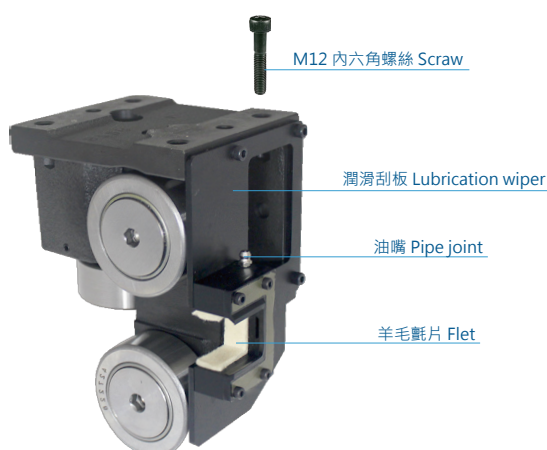
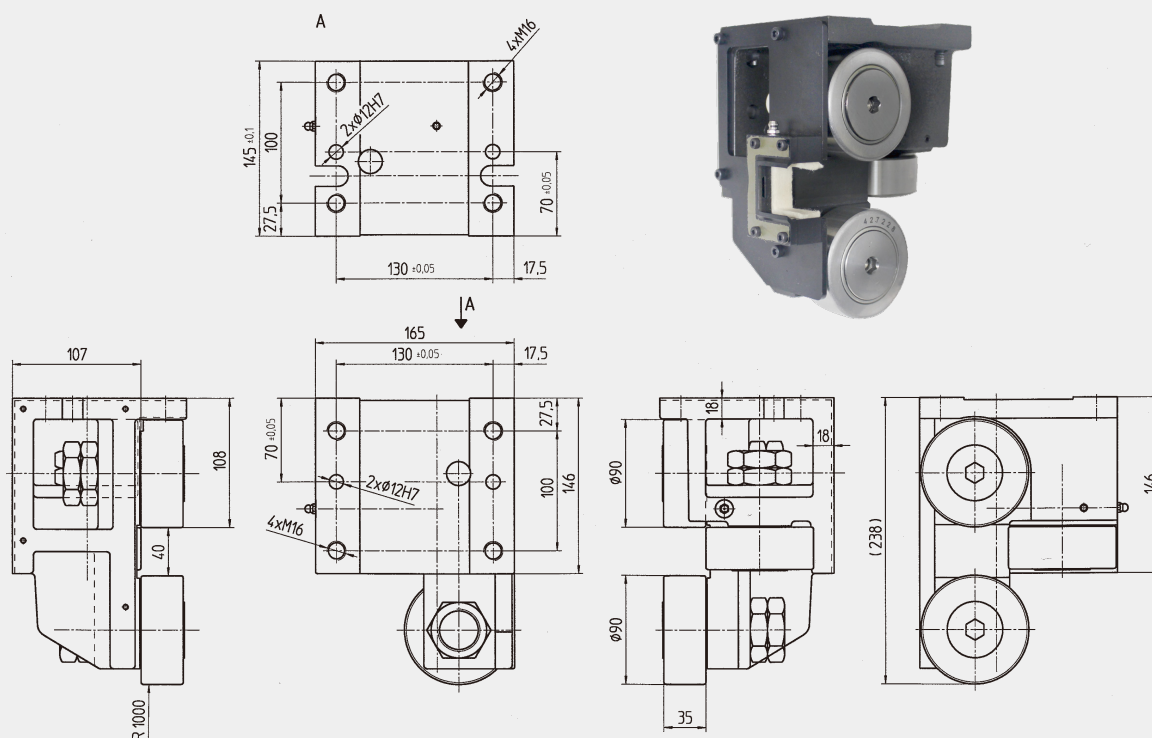
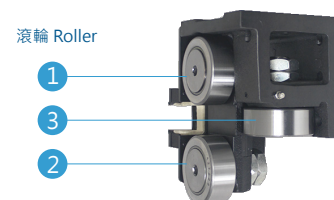


90重載荷高速直線導軌系統 Heavy duty guideway system

90滾輪模組(右側) Roller slider (Right side)

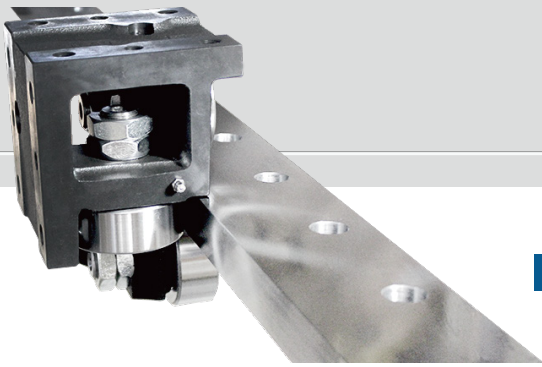
型號介紹 | Code instruction

型號 Model	滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
	1	2	3		C0	C1	C2		
PLR90-R	1	ZR	PR	GGG40	81600	42900	10600	1800	15.0
	2	ZR	PR						
	3	PR	ZR						



*當您選購62/72/90型號的滾輪模組，發貨時會預先安裝對應的潤滑刮板。

*When you purchase the roller module of the 62/72/90 model, the lubrication wiper is pre-installed.



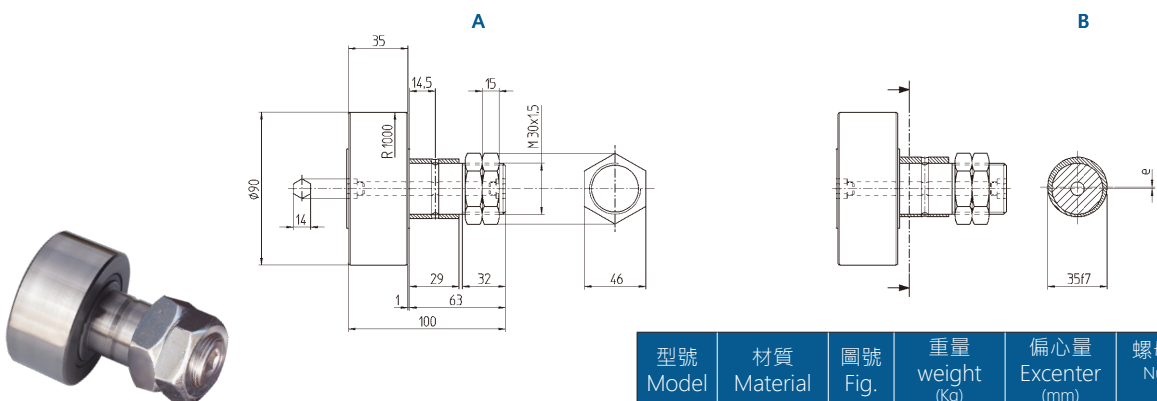
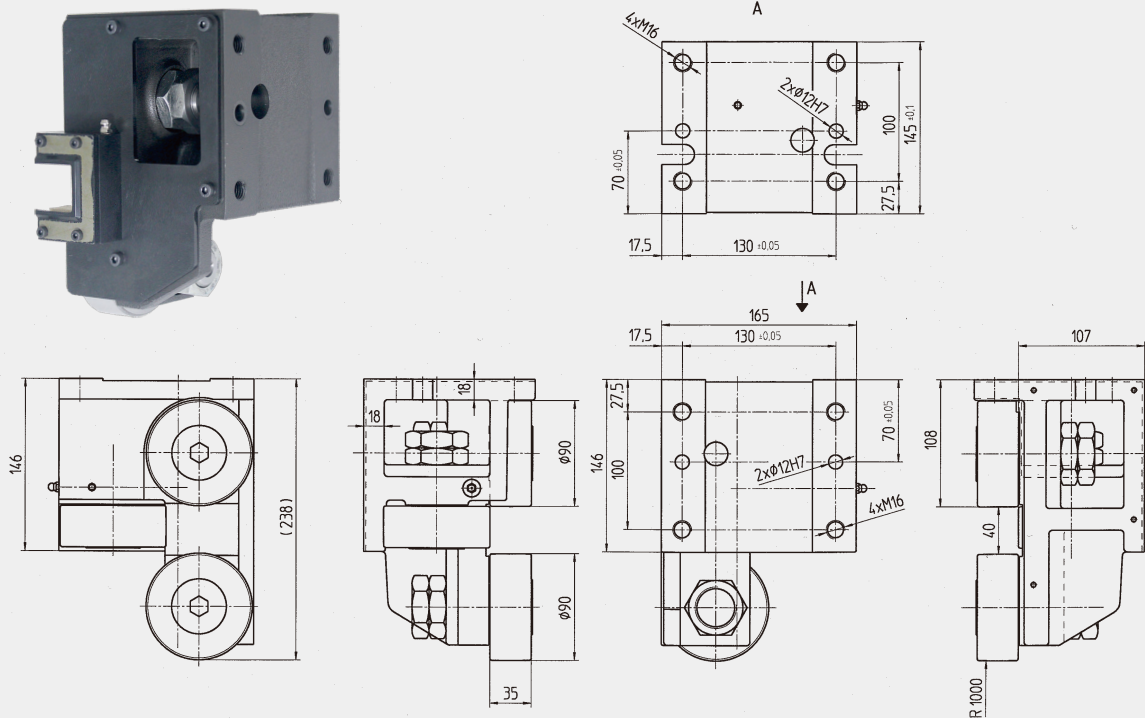
90滾輪模組(左側) Roller slider (Left side)

型號介紹 | Code instruction

C0 = 靜態負荷
C1 = 動態負荷；額定壽命 = 1000km
C2 = 動態負荷；額定壽命 = 100000km

C0 = Static
C1 = Dynamic ; Rated life = 1000km
C2 = Dynamic ; Rated life = 100000km

型號 Model	滾輪 Roller			材質 Materials	負荷能力 Load (N)			最大轉速 Max. Speed (rpm)	重量 weight (Kg)
	1	2	3		C0	C1	C2		
PLR90-L	1	ZR	PR	GGG40	81600	42900	10600	1800	15.0
	2	ZR	PR						
	3	PR	ZR						



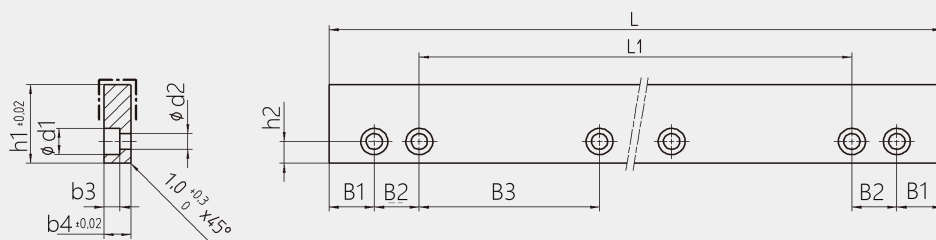
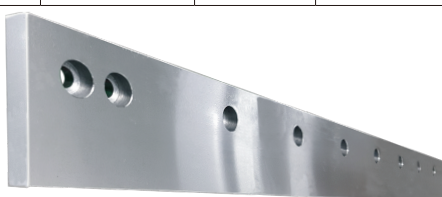
型號 Model	材質 Material	圖號 Fig.	重量 weight (kg)	偏心量 Excenter (mm)	螺母緊配扭矩 Nut tightening (Nm)
ZR 90	100Cr6	A	2.02	0	450
PR 90		B		1	

90重載荷高速直線導軌系統 Heavy duty guideway system

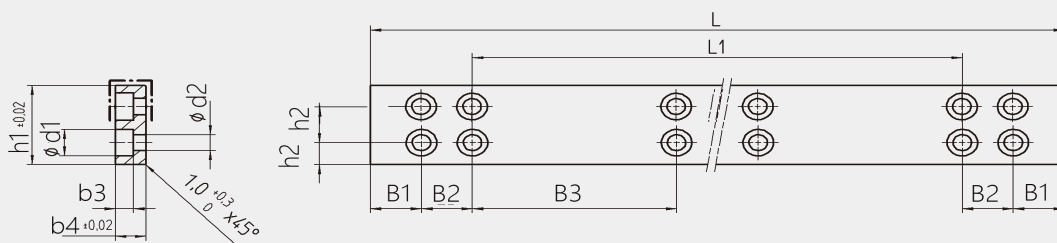
90扁軌道 Flat type guideway

型號介紹 | Code instruction

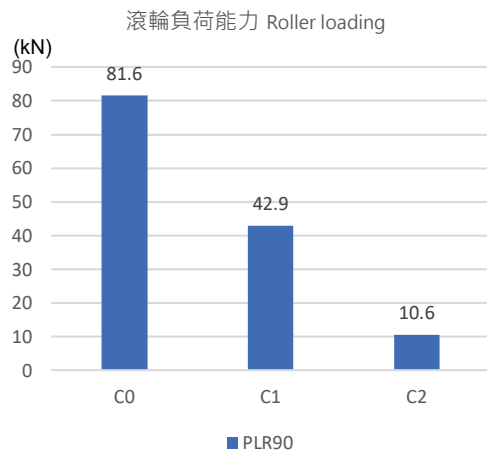
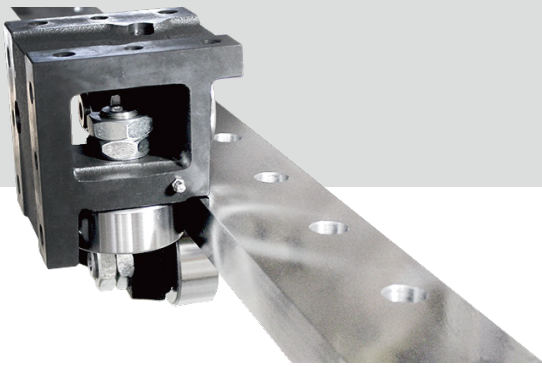
型號 Model	材質 Material	重量 weight (Kg)	行程長度 Length (mm)	軌道寬度 Width (mm)	使用螺絲 Screw	緊配扭矩 Tightening torque (Nm)
SP-9080	S45C	20.8	1200	80	M12x35	83
		34.7	2000	80		
SP-90A2		33.7	1200	120		
		56.1	2000	120		



型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-9080	25	25	100	20	13.5	80	25	1200	1100	13	40
SP-9080	25	25	100	20	13.5	80	25	2000	1900	13	40

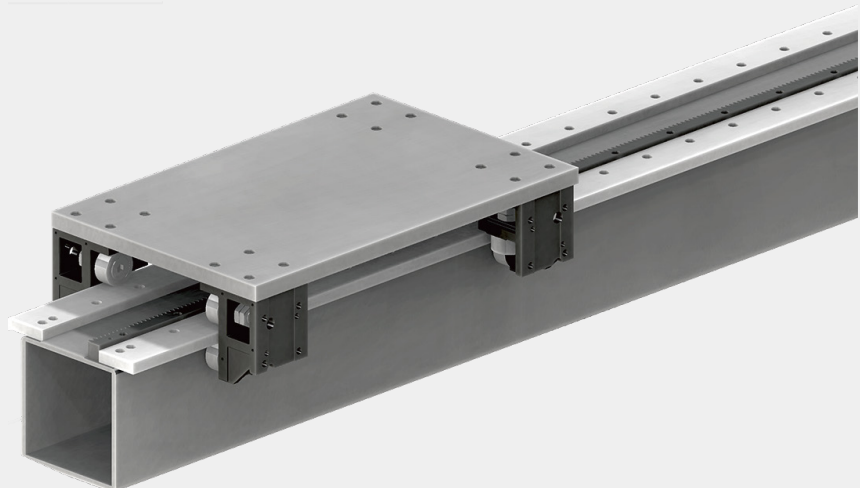
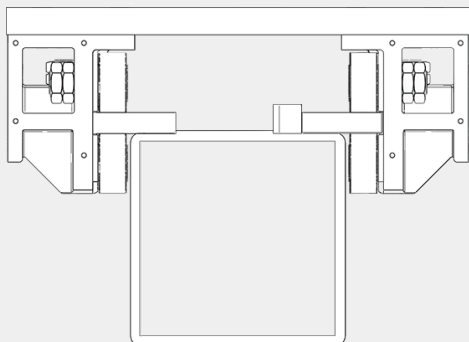


型號 Model	B1	B2	B3	d1	d2	h1	h2	L	L1	b3	b4
SP-90A2	25	25	100	20	13.5	120	25	1200	1100	13	40
SP-90A2	25	25	100	20	13.5	120	25	2000	1900	13	40



C0 = 靜態負荷
 C1 = 動態負荷；額定壽命 = 1000km
 C2 = 動態負荷；額定壽命 = 100000km

C0 = Static
 C1 = Dynamic ; Rated life = 1000km
 C2 = Dynamic ; Rated life = 100000km

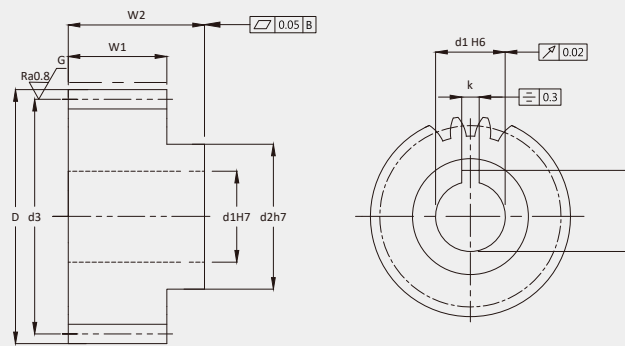


精密斜齒輪 Helical Gear

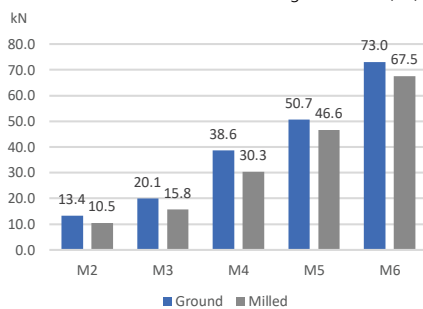
型號介紹 | Code instruction

材料 Material	齒型 Type	齒面處理 Teeth treatment	硬度處理 Hardness	周節 Circular pitch	齒數 No. of teeth	精度等級 Grade
C = C45 M = SCM440	S = 直齒 H = 斜齒	G = 研磨 M = 精銑	H = 硬化處理	020 = M2 030 = M3 040 = M4 050 = M5 060 = M6	12 ~ 40	DIN6 DIN8
	S = Straight H = Helical	G = Ground M = Milled	H = Hardness			

型號 Model	品質 Quality	材料 Material	齒型 Teeth Type	硬度 Hardness	表面處理 Surface
CHGH	DIN6	S45C	19° 31'42" 左旋角 Left Hand Angle	HRC 55° ~ 60°	磨削 Skiving
CSGH					染黑處理 Phosphate treatment
CHMH	DIN8				
CSMH					



最大允許切向力 Max. allowable tangential force (kN)



模數 Module	*齒數 *No. of Teeth	*d1	*d2	*d3	*D	*w1	*w2	*k	*h	*Kg
2	20	22	36	42.44	46.4	28	56	6	24.8	0.2
3	20	32	55	63.66	69.7	28	65	10	35.3	1.2
4	21	45	68	89.13	97.1	40	75	10	35.3	2.2
5	20	55	80	106.10	116.1	50	90	16	59.3	4.8
6	20	75	110	127.32	139.3	60	120	20	59.3	7.0

*本目錄中齒輪尺寸僅供參考使用。
 *實際齒數及尺寸依照客戶訂製圖紙製作。
 *相同模數之齒輪與相同模數齒條相互咬合。
 *齒輪重量僅供參考，以實際重量需實秤。

* The gear sizes in this catalog are for reference only.
 The actual number of teeth and sizes are made according to the customer's customized drawings.
 * Gears with the same modulus mesh with racks with the same modulus.
 * Weight is for reference only.
 Actual weight should be measured on the scale.

※直線齒條部分需另外搭配，如有需要請與我們聯繫。

* The rack needs additional matching, please contact us if necessary.

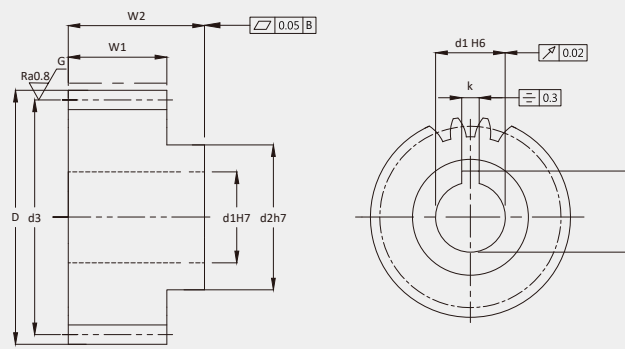
精密直齒輪 Straight Gear

型號介紹 | Code instruction

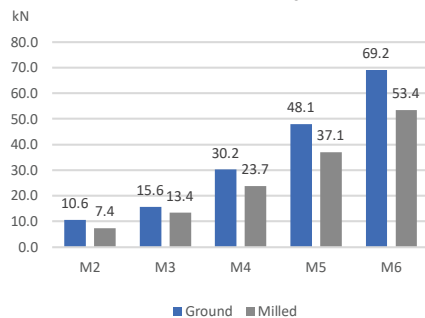
材料 Material	齒型 Type	齒面處理 Teeth treatment	硬度處理 Hardness	周節 Circular pitch	齒數 No. of teeth	精度等級 Grade
C = C45 M = SCM440	S = 直齒 H = 斜齒	G = 研磨 M = 精銑	H = 硬化處理	020 = M2 030 = M3 040 = M4 050 = M5 060 = M6	12 ~ 40	DIN6 DIN8
	S = Straight H = Helical	G = Ground M = Milled	H = Hardness			



型號 Model	品質 Quality	材料 Material	齒型 Teeth Type	硬度 Hardness	表面處理 Surface
CHGH	DIN6	S45C	0°	HRC 55° ~ 60°	磨削 Skiving
CSGH					
CHMH	DIN8				染黑處理 Phosphate treatment
CSMH					



最大允許切向力 Max. allowable tangential force (kN)



模數 Module	*齒數 *No. of Teeth	*d1	*d2	*d3	*D	*w1	*w2	*k	*h	*Kg
2	20	22	36	40	44	28	56	6	24.8	0.2
3	20	32	55	60	66	28	65	10	35.3	1.2
4	20	35	55	80	88	40	75	10	38.3	1.8
5	20	45	68	100	110	50	85	14	48.8	3.5
6	20	55	80	120	132	60	100	16	59.3	5.9

*本目錄中齒輪尺寸僅供參考使用。
實際齒數及尺寸依照客戶訂製圖紙製作。
*相同模數之齒輪與相同模數齒條相互咬合。
*齒輪重量僅供參考，以實際重量需實秤。

* The gear sizes in this catalog are for reference only.
The actual number of teeth and sizes are made according to the customer's customized drawings.
* Gears with the same modulus mesh with racks with the same modulus.
* Weight is for reference only.
Actual weight should be measured on the scale.

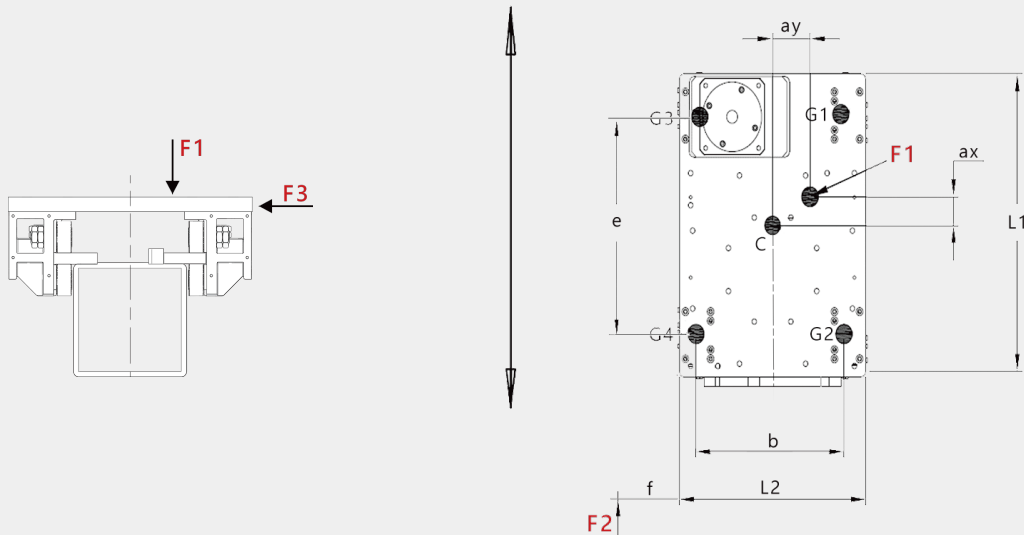
※直線齒條部分需另外搭配，如有需要請與我們聯繫。

* The rack needs additional matching, please contact us if necessary.

簡易計算 Calculation

PLR	kr	Cw
40	1.257	13.1
52	1.634	24.4
62	1.948	34.8

PLR	kr	Cw
72	2.262	38.3
90	2.827	62.9



F1 = Z軸方向受力 (Kg)
 F2 = X軸方向受力 (Kg)
 F3 = Y軸方向受力 (Kg)
 fc = 馬達服務係數 1.0 ~ 1.2
 kr = 滾輪尺寸係數
 Cw = 有效基本額定載荷 (kN)
 C0 = 滾輪最大容許靜態軸向力 (kN)

F1 = Force of Z axial (Kg)
 F2 = Force of X axial (Kg)
 F3 = Force of Y axial (Kg)
 fc = Service coefficient 1.0 ~ 1.2
 kr = roller size coefficient
 Cw = Effective basic dynamic load rating
 C0 = Maximum admissible static radial force (kN)

1. 滾輪 1 & 2 承受力 (N) Load of roller 1 & 3

$$F_{G1-1; G1-2} = F1 * \left(-\frac{1}{2} - \frac{ay}{b}\right) \left(-\frac{1}{2} - \frac{ax}{e}\right) + \frac{F2}{2} * \frac{az}{e} + \frac{F3}{2} * \frac{az}{b}$$

$$F_{G2-1; G2-2} = F1 * \left(-\frac{1}{2} - \frac{ay}{b}\right) \left(-\frac{1}{2} - \frac{ax}{e}\right) + \frac{F2}{2} * \frac{az}{e} + \frac{F3}{2} * \frac{az}{b}$$

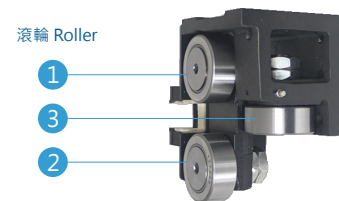
$$F_{G3-1; G3-2} = F1 * \left(-\frac{1}{2} - \frac{ay}{b}\right) \left(-\frac{1}{2} - \frac{ax}{e}\right) + \frac{F2}{2} * \frac{az}{e} + \frac{F3}{2} * \frac{az}{b}$$

$$F_{G4-1; G4-2} = F1 * \left(-\frac{1}{2} - \frac{ay}{b}\right) \left(-\frac{1}{2} - \frac{ax}{e}\right) + \frac{F2}{2} * \frac{az}{e} + \frac{F3}{2} * \frac{az}{b}$$

2. 滾輪 3 承受力 (N) Load of roller 3

$$F_{G1-3; G3-3} = F3 * \left(-\frac{1}{2} - \frac{ax}{e}\right) + F2 * \frac{ay}{e}$$

$$F_{G2-3; G4-3} = F3 * \left(-\frac{1}{2} - \frac{ax}{e}\right) + F2 * \frac{ay}{e}$$



驗證安全係數 $f_s > 1$

$$Fr = \max\{F_{G1}, F_{G2}, F_{G3}, F_{G4}\}$$

$$f_s = 0.7 * \frac{C0}{fc * Fr} > 1$$

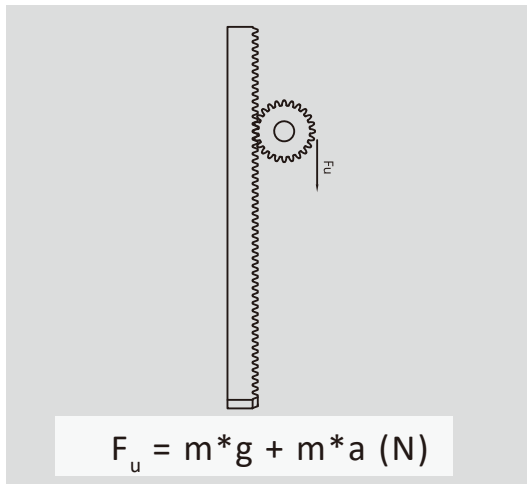
驗證壽命 Life (Km)

$$Life = kr * \left(\frac{Cw}{fc * Fr}\right)^{\frac{10}{3}} * 10^2$$

■ 直線傳動(齒條)簡易計算 Calculation of rack and pinion drive

工作力 Working force F_u

垂直升降傳動 Upward / Downward



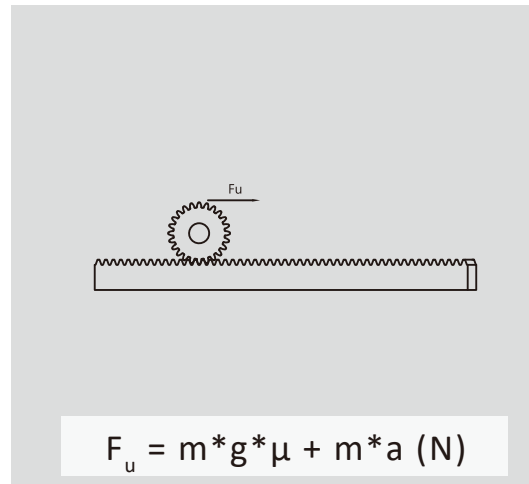
m = 質量 (kg)
 g = 重力加速度 9.81
 a = 運行加速度 (mm/sec²)
 μ = 材質摩擦係數 0.025 ~ 0.04

s = 運行距離 (m)
 t = 運行時間 (sec)

$$a = \frac{v}{t} = \frac{s}{t^2}$$

Z = 齒輪齒數
 M = 齒輪模數
 θ = 齒輪螺旋角度 (直齒=0)
 d_0 = 齒輪節圓直徑 (mm)
 n = 齒輪轉速 (RPM)
 T = 齒輪承受扭矩 (Nm)

水平傳動 Driving horizontally



m = Mass (kg)
 g = Gravitational acceleration 9.81
 a = Acceleration (mm/sec²)
 μ = Material friction Coefficient 0.025 ~ 0.04

s = Running distance (m)
 t = Running time (sec)

$$v = \frac{s}{t}$$

Z = No. of teeth
 M = Module
 θ = Helical angle (Straight=0)
 d_0 = Pitch diameter (mm)
 n = Speed (RPM)
 T = Torque (Nm)

1. 齒輪節圓直徑 d_0 (mm)

$$d_0 = M * Z / \cos(\theta)$$

2. 齒輪轉速 n (RPM)

$$\frac{v * 60}{\pi * d_0}$$

3. 工作傳動扭矩 T (Nm)

$$T = \frac{F_u * d_0}{2000}$$

n_{work} = 工作速度 (RPM)

F_{ta} = 本書齒輪參數表格提供之最大允許切向力(kg)

K_a = 負荷安全係數 1.2

K_L = 壽命係數 1.5

n_{work} = Working speed (RPM)

F_{ta} = Max. allowable tangential force in catalog(kg)

K_a = Overload factor 1.2

K_L = Life factor 1.5

驗證安全承受力 (kN)

$$\frac{F_u * K_a * K_L}{1000} < F_{ta}$$

驗證轉速 n (RPM)

$$n > n_{work}$$

※直線齒條部分需另外搭配，如有需要請與我們聯繫。

* The rack needs additional matching, please contact us if necessary.

■ 安裝簡介 Install intro

正心輪ZR：安裝於始終需要承受重力端；
偏心輪PR：安裝於需要調整與軌道接觸鬆緊端。

以右圖 為例，上方1號滾輪為正心輪ZR；
下方2號滾輪為偏心輪，負責調整與軌道的鬆緊；
中間側邊3號滾輪為偏心，負責與對面的3號滾輪作夾緊調整。

偏心滾輪PR使用六角板手配合套筒板手調整與軌道鬆緊。

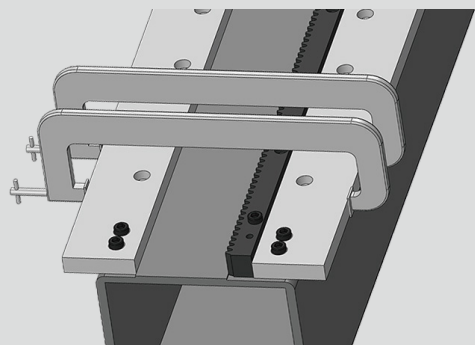
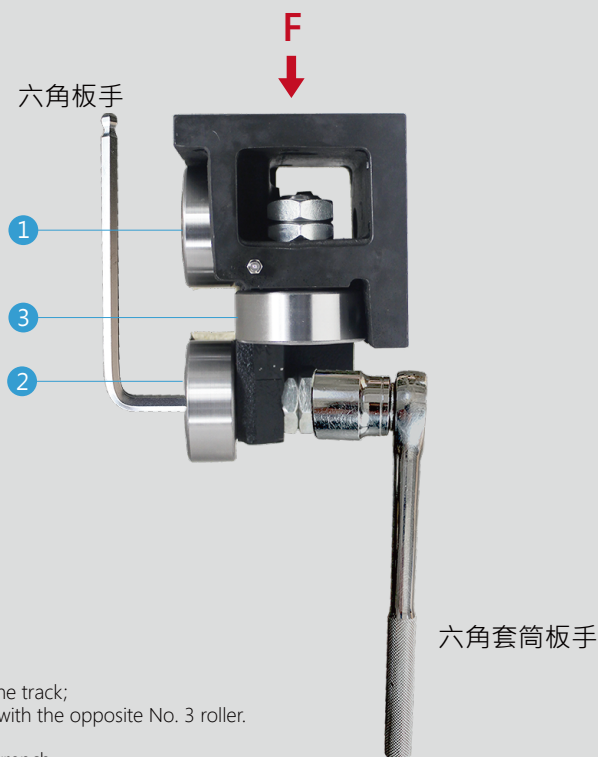
滾輪與軌道的鬆緊程度會影響使用壽命；
裝配太鬆可能導致運行抖動與鬆脫；
裝配過緊可能導致滾輪壽命受到影響。

The Roller ZR always keep the roller bearing gravity;
The Eccentric Roller PR is for adjusting the tightness with the track.

For example, the No. 1 roller is the center wheel ZR;
The No. 2 roller is an eccentric wheel, which is responsible for adjusting the tightness with the track;
The No. 3 roller on the middle side is eccentric and is responsible for clamping adjustment with the opposite No. 3 roller.

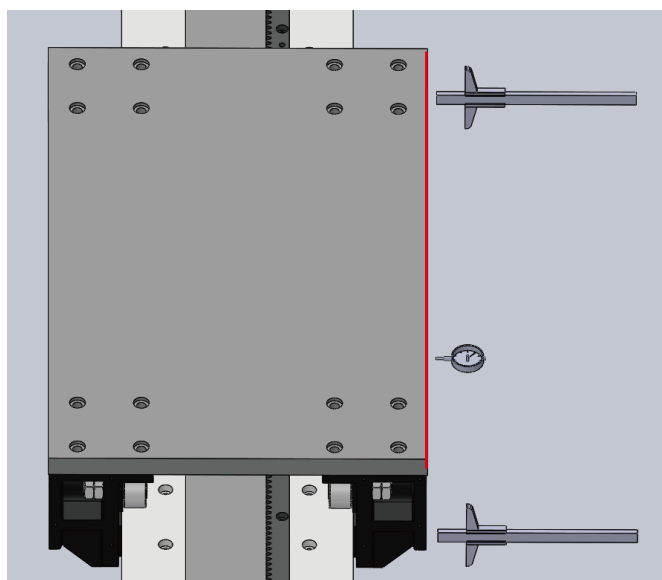
The eccentric roller PR uses a hexagon wrench to adjust the sleeve tightness with a sleeve wrench.

The tightness of the roller and track will affect the service life;
Too loose assembly may cause running jitter and loosening;
Over-tightening may affect the life of the rollers.



1. 將導軌及齒條對齊安裝基座的螺紋孔，微擰螺絲至沉頭孔接觸面。
2. 使用C行夾鉗墊上軟質墊塊，將導軌、齒條與基座固定貼合。
3. 檢測確認軌道平行度。
4. 先將齒條螺絲鎖緊固定，再將導軌螺絲固定。
5. 螺絲一律從中間段開始向外鎖緊。
6. 移除C行夾鉗與墊塊。

1. Align the guideway and rack with the threaded holes in the mounting base, and slightly tighten the screws to the countersunk hole contact surface.
2. Use a soft pad on the C-clamp pad to fix the guideway, rack and base firmly.
3. Check the parallelism of the track.
4. Fix the rack screws first, and then fix the rail screws.
5. Fix the screws from the middle; then onward to the two ends of guideway, rack.
6. Remove row C clamps and spacers.



8. 從傳動端(齒條)安裝側為基準量測右圖紅色邊之平行度。
9. 使用深度卡尺量測載板兩端點至基座的距離是否相等。
10. 通過鬆緊3號滾輪之鬆緊來調整載板兩端平面之平行度。

8. Measure the parallelism of the red edge on the right from the installation side of the transmission end (rack) as the reference.
9. Use a depth caliper to measure whether the distance from the two ends of the carrier board to the base is equal.
10. Adjust the parallelism of the planes on both ends of the carrier board by tightening the roller # 3.

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