

Product Info

We respond to all needs in industry and daily life with our excellent quality and diverse lineup, from conveyor rollers and wheels for conveyor lines to automobile parts, light vehicles, construction hardware, and furniture .

press bearing

We aim to be the best as a top manufacturer. Trust, track record and quality

FUJI is a top manufacturer of press bearings. We have a long track record of achieving huge production volumes, delivering products to a variety of fields, and developing new products. We constantly pursue improvements in the quality of press bearings, including materials, shapes, purposes, and uses, and have acquired ISO9001 and ISO14001 quality and environmental management systems. We have received high praise from our customers for our quality control that takes into account not only production, sales, and service, but also the global environment.

We aim to be your best partner. Applications, performance and price

FUJI offers a wide variety of press bearings. In particular, we have focused our efforts on jointly developing pressed bearings with shapes and sizes that match the applications and purposes of our users. This accumulation of experiences is the source of our development capabilities that can be applied to a wide range of fields. We also place emphasis on economic efficiency, propose the most suitable model according to needs, and through repeated discussions with our users, we are able to provide press bearings that best match performance and price.



press wheel >

- Wheel conveyors, flow racks, conveyor guide rollers
- Wheels of light vehicles...



cutting wheel >

- Feeding wood, iron materials, etc., roller of extraction device...



JIS grade bearing >

- Conveyor roller, roller skate
- Wheels of industrial vehicles, lawn mowers, etc.



Radial bearing with flange >

- Two types: one for casters and one for rollers.



Radial bearing with housing >

- Conveyor rollers of all sizes, from extremely small diameters to large diameters ...



radial thrust bearing >

- For composite loads, construction hardware, wheels, conveyors...



OTHERS >

- Resin radial bearing
- Showcase, cabinet...
- Rhombic flange unit
- Special bearings...
- Ball transfer
- For transport in any direction

<About the standard specifications of FUJI press bearings>

●Main materials:

We use steel, stainless steel, aluminum, etc.

The inner and outer rings are ideally heat treated for wear resistance and impact resistance.

●Load capacity:

Depending on the type, there are light, medium, and heavy load types depending on the installation, arrangement, and lubricant.

●Lubricant :

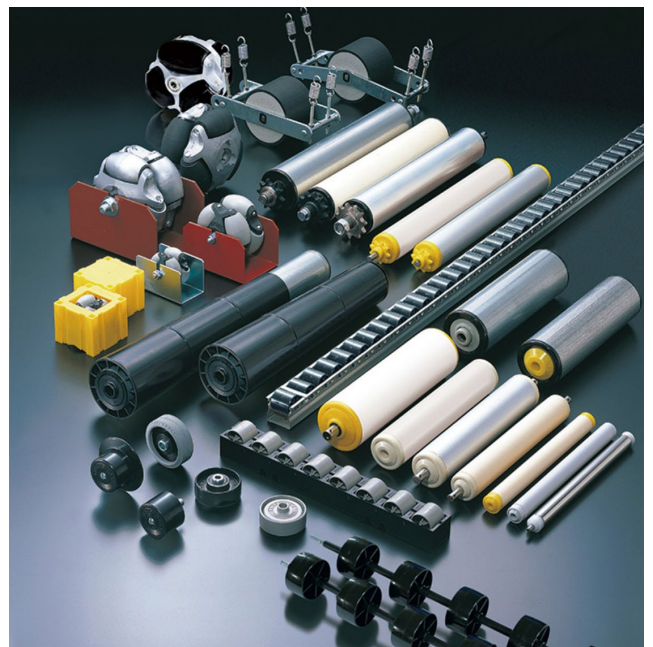
Uses oil or grease. Cold-resistant and heat-resistant greases are also available upon request

For product inquiries, please contact the Sales Headquarters TEL: 0595-46-0777

conveyor components

FUJI meets all your needs

FUJI's resin rollers have been used by customers for over 40 years. During this time, a variety of items based on resin rollers, such as "omni wheels" and "brake rollers," have become deeply established in the Japanese market. FUJI is highly regarded for its technology, supplying pressed bearings, which are the core components of roller conveyors, to countries around the world. We will continue to deliver products full of originality as a deep partner of Interroll Group (headquartered in Switzerland), a leading manufacturer of conveyor components that support material handling.





conveyor roller >

- Achieves impact resistance, chemical resistance, corrosion resistance, and elasticity, as well as small size, light weight, low nose , and smooth rotation.



tapered roller >

- Easily realize curved conveyor line using $\phi 48.6$ straight rollers



conveyor wheel >

- Easy and economical to assemble. Realizes smooth transportation of lightweight items.



brake roller >

- Smooth control of gravity conveyor conveyance speed without the need for power.



Omni Wheel Omni-directional moving wheel >

- It is possible to move the conveyed object in any direction with a small force .



FUJI NINJA WHEEL[®] (Fuji Ninja Wheel) >

- An unparalleled omnidirectional drive wheel for transport vehicles that can travel in any direction .

Notice of discontinuation of conveyor component products

The discontinued numbers of conveyor component products are as follows.

1. SERIES FA1/FA5
2. SERIES FD9
3. SERIES FW FW48-5-6.3
4. SERIES 2160/2130/2370

For product inquiries, please contact the Sales Headquarters TEL: 0595-46-0777

press bearing

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press wheel



Heat-treated outer ring, inner ring, and split ring provide uniform strength and wear resistance. Furthermore, it is lightweight, easy to handle, and tough enough to withstand long-term use.

<Usage example>

- Wheel conveyors, flow racks, conveyor guide rollers
- Light vehicle wheels etc.



Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
press wheel	PCA636-12TX-25L	36mm		6.5mm		12mm
press wheel	PCA836-9X-14L	36mm		8.2mm		9mm
press wheel	PCA836-9X-28L	36mm		8.2mm		9mm
press wheel	PCA638-12TX-18L	38mm		6.5mm		12mm
press wheel	PCA638-12TX-25L	38mm		6.5mm		12mm
press wheel	PCA638-12TX-27L	38mm		6.5mm		12mm
press wheel	PCA640-15TX-19L	40mm		6mm		15mm
press wheel	PCA640-12TX-26L	40mm		6.5mm		12mm
press wheel	PCA640-20TX-26L	40mm		6.5mm		20mm
press wheel	PCA840-12AX-25L	40mm		8.2mm		12mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				25mm	22kgf	13kgf
				14mm	22kgf	15kgf
				28mm	25kgf	15kgf
				18mm	22kgf	13kgf
				25mm	22kgf	13kgf
				26.8mm	22kgf	13kgf
				19mm	22kgf	13kgf
				26mm	22kgf	13kgf
				26mm	22kgf	13kgf
				25mm	34kgf	20kgf

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
press wheel	PCA848-16ALX	48mm		8.2mm		16mm
press wheel	PCA649-16AX-24L	49.2mm		6.5mm		15.9mm
press wheel	PCA650-20TX-26L	50mm		6.5mm		20mm
press wheel	PCA850-20AX-25L	50mm		8.2mm		20mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				25mm	17kgf	10kgf
				24mm	30kgf	17kgf
				26mm	34kgf	20kgf
				25mm	42kgf	26kgf

cutting wheel



Both the outer and inner rings are machined using a special machine, resulting in outstanding durability and excellent impact resistance, making it ideal for medium- to heavy-load wood and iron rollers.

<Usage example>

Feeding of wood, iron materials, etc.,
roller of extraction device, etc.

Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
cutting wheel	PCH625PA-9X-16L-φ6.2	25mm		6.2mm		9mm
cutting wheel	PCH636PA-9X-25L	36mm		6.2mm		9mm
cutting wheel	PCH636PA-9X-28L	36mm		6.2mm		9mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				16mm	72kgf	36kgf
				25mm	87kgf	48kgf
				28mm	87kgf	48kgf

Radial bearing with flange



Widely used for conveyor rollers for light, medium, and heavy loads, and can be easily assembled by press-fitting. It is economical and has excellent durability, contributing to lower equipment costs.

<Usage example>

Two types: one for casters and one for rollers.



Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
Radial bearing with flange	PCO27FX-J	27mm	30mm	12.2mm		8mm
Radial bearing with flange	PCO30FX-F	30.1mm	33.2mm	10mm		9mm
Radial bearing with flange	PCR300F-A	30.1mm	33.2mm	10.2mm		9.7mm
Radial bearing with flange	PCO32SX-11.9HEX	31.8mm	34.1mm	11.9mm★		10.5mm
Radial bearing with flange	PCO32FX-F	32.1mm	35mm	12mm		10mm
Radial bearing with flange	PCR320F-A	32.1mm	35mm	12.1mm		10mm
Radial bearing with flange	PCR320F-B	32.1mm	35mm	14mm		10mm
Radial bearing with flange	PCO34NYX	34.1mm	37mm	12.2mm		12mm
Radial bearing with flange	PCO1737SKX	37mm	39mm	17.2mm		12mm
Radial bearing with flange	PCR470F-A	47mm	50.5mm	20mm		13.5mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				12.5mm	35kgf	24kgf
				10.8mm	70kgf	50kgf
				11.5mm	59kgf	34kgf
				12.5mm	74kgf	56kgf
				12mm	74kgf	56kgf
				12.4mm	89kgf	58kgf
				12.7mm	89kgf	58kgf
				17.5mm	87kgf	56kgf
				18.5mm	113kgf	87kgf
				15.5mm	176kgf	117kgf

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
Radial bearing with flange	PCR470F-B	47mm	50.5mm	20mm		13.5mm
Radial bearing with flange	PCO22FX-A	21.8mm	24mm	8.2mm		6.9mm
Radial bearing with flange	PCO27F-P-SUS	27.2mm	29mm	12.1mm		7.5mm
Radial bearing with flange	PCR27NSX	27mm	30mm	12.2mm		8mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				16.5mm	176kgf	117kgf
				10.9mm	27kgf	19kgf
				11.5mm	8kgf	6kgf
				14.5mm	39kgf	22kgf

Radial bearing with housing



It is an open type housing that can be easily press-fitted into rollers, etc., and has particularly excellent rotation performance. Complete lineup of standard types. You can choose from a wide variety of models.

<Usage example>

Conveyor rollers of all sizes, from extremely small diameters to large diameters, etc.



Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
Radial bearing with housing	PCO166EX	16.7mm	18.5mm	6.2mm		7.6mm
Radial bearing with housing	PCO261EDX-4.0	26.1mm	28.5mm	8.1mm		9.5mm
Radial bearing with housing	PCO294EDX	29.4mm	31.5mm	8.3mm		9.2mm
Radial bearing with housing	PCR35EDX-6.5L(C)	35.2mm	38mm	12mm		11mm
Radial bearing with housing	PCO352EX-B	35.2mm	38mm	12.2mm		9mm
Radial bearing with housing	PCO35ED-SUS	35.7mm	38mm	12.2mm		9mm
Radial bearing with housing	PCO399EDX	39.9mm	42.5mm	12.2mm		9mm
Radial bearing with housing	PCA42EDX	42.3mm	45mm	8.1mm		11mm
Radial bearing with housing	PCR45EX-D(C)	45.2mm	48.5mm	11.2mm★		13mm
Radial bearing with housing	PCO45EX-K	45.4mm	48mm	12.2mm		9mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				10mm	10kgf	5kgf
				13.5mm	10kgf	6kgf
				14.2mm	18kgf	11kgf
				17.5mm	59kgf	29kgf
				14mm	57kgf	43kgf
				13mm	8kgf	6kgf
				14mm	21kgf	16kgf
				18mm	25kgf	15kgf
				19mm	104kgf	48kgf
				14mm	21kgf	16kgf

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
Radial bearing with housing	PCR533EDX-6.5L(C)	53.1mm	57mm	12mm		14.9mm
Radial bearing with housing	PCA532EX-A	53.2mm	57mm	12.1mm		12.7mm
Radial bearing with housing	PCO56EDX	55.2mm	60.5mm	20.3mm		14mm
Radial bearing with housing	PCR1256EDX-6.5L(C)	56mm	59.3mm	12mm		12.7mm
Radial bearing with housing	PCR68EDX-9.4L(C)	66.9mm	73mm	17mm		16mm
Radial bearing with housing	PCR39EX-M	39.5mm	42.5mm	12mm		12.7mm
Radial bearing with housing	PCR39EX-N	39.5mm	42.5mm	11.2mm★		12.7mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				21.4mm	173kgf	77kgf
				17mm	74kgf	56kgf
				18mm	102kgf	90kgf
				19.2mm	130kgf	60kgf
				25.4mm	152kgf	82kgf
				19.2mm	104kgf	48kgf
				19.2mm	104kgf	48kgf

radial thrust bearing



Designed for composite loads, providing smooth rotation for both radial and thrust loads. This bearing is ideal for construction hardware, wheels, and conveyors.

<Usage example>
For composite loads, construction hardware, wheels, conveyors, etc.



Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
radial thrust bearing	PCL90X	90mm		60mm		9.9mm
radial thrust bearing	PCL109X	109mm		75mm		9.9mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				9.9mm		-
				9.9mm	-	-

OTHERS



It is used as a variety of parts for logistics equipment and automated labor-saving equipment.

<Usage example>

- Resin radial bearing
showcase, cabinet...
- Rhombic flange unit
/special bearing...
- For ball transfer
/transfer in any direction

Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
OTHERS	FP43PJ-48-11H-A	43mm	48.2mm	31.6mm		72mm
OTHERS	DR-19-H5	19.0mm		5.0mm		6.0mm
OTHERS	DR-22-H6	22.0mm		6.0mm		7.0mm
OTHERS	DR-26-H6	26.0mm		6.0mm		7.0mm
OTHERS	DR-30-H6	30.0mm		6.0mm		7.0mm
OTHERS	DT-22-688ZZ	22.0mm		8.0mm		7.0mm
OTHERS	DT-26-H6-626ZZ	26.0mm		6.0mm		8.0mm
OTHERS	DT-30-608ZZ	30.0mm		8.0mm		9.0mm
OTHERS	DT-35-608ZZ	35.0mm		8.0mm		9.0mm
OTHERS	φ30 nylon tire	30.0mm		9.0mm		10.0mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				75mm		
					5kgf	
					20kgf	
					20kgf	
					20kgf	
					45kgf	
					50kgf	
					70kgf	
					80kgf	
					340kgf	146kgf

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
OTHERS	φ40 nylon tire	40.0mm		10.0mm		12.0mm
OTHERS	DR-19-A0.5	19.0mm			5.0mm	6.0mm
OTHERS	DR-19-B0.5	19.0mm			M6.0mm	6.0mm
OTHERS	DR-22-A1	22.0mm			5.0mm	7.0mm
OTHERS	DR-22-B0.5	22.0mm			M6.0mm	7.0mm
OTHERS	DR-24-B0.5	24.0mm			M6.0mm	7.0mm
OTHERS	DR-26-A1	26.0mm			5.0mm	7.0mm
OTHERS	DR-26-B0.5	26.0mm			M6.0mm	7.0mm
OTHERS	#6200 Bear with shaft	30.0mm			5.9mm	9.0mm
OTHERS	Diamond flange AX	32.4mm	62.0mm	10.0mm		14.5mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
					520kgf	244kgf
0.5mm	3.5mm				3kgf	
0.5mm	8.0mm				5kgf	
1mm	3.5mm				8kgf	
0.5mm	8.0mm				20kgf	
0.5mm	8.0mm				20kgf	
1mm	3.5mm				8kgf	
0.5mm	8.0mm				20kgf	
1mm	3.7mm				520kgf	244kgf
		48.0mm				

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
OTHERS	Diamond flange CX	37.4mm	67.0mm	17.0mm		15.5mm
OTHERS	PCP254BX-S	42.0mm	70.0mm	25.4mm		

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
		53.0mm				
		56.0mm	30.5mm			

JIS grade bearing



It is highly economical and has achieved high wear resistance and durability due to sufficient heat treatment.



Dimension list

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
JIS grade bearing	#608ZZ	22mm		8mm		7mm
JIS grade bearing	#628ZZ	24mm		8mm		8mm
JIS grade bearing	#6001ZZ	28mm		12mm		8mm
JIS grade bearing	#6002ZZ	32mm		15mm		9mm
JIS grade bearing	#6003ZZ	35mm		17mm		10mm
JIS grade bearing	#6200ZZ	30mm		10mm		9mm
JIS grade bearing	#6201ZZ	32mm		12mm		10mm
JIS grade bearing	#6204ZZ	47mm		20mm		14mm
JIS grade bearing	#6301ZZ	37mm		12mm		12mm
JIS grade bearing	#6901ZZ	24mm		12mm		6mm

Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				7mm	345kgf	140kgf
				8mm	400kgf	166kgf
				8mm	540kgf	236kgf
				9mm	585kgf	285kgf
				10mm	680kgf	335kgf
				9mm	540kgf	239kgf
				10mm	728kgf	310kgf
				14mm	1350kgf	665kgf
				12mm	1010kgf	420kgf
				6mm	289kgf	146kgf

type	Product number	Outer diameter [D]	Flange diameter [D']	Inner diameter [d]	Dimensions [D2]	Width [B]
JIS grade bearing	#6902ZZ	28mm		15mm		7mm
JIS grade bearing	#6903ZZ	30mm		17mm		7mm

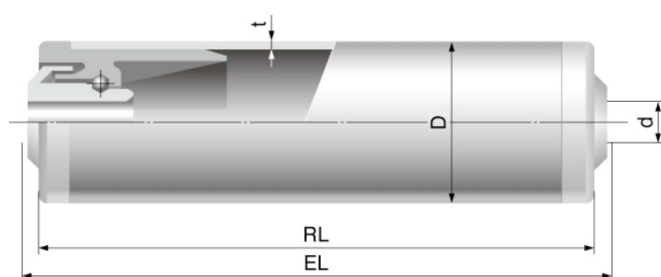
Width [B2]	Width [B3]	Dimensions [P]	Height [H]	Total width [L]	Dynamic load rating (Cr)	Static load rating (Cor)
				7mm	436kgf	224kgf
				7mm	465kgf	258kgf

original roller

In a word, "smooth rolling"

Not only does it have impact resistance, chemical resistance, corrosion resistance, and elasticity, but it is also small, lightweight, low noise, and provides smooth rotation.

Conveyor roller (for light loads) SERIES FF1



φ18、φ20、φ30、φ40(EL=RL+5)、φ50、φ57(EL=RL+10)

EL: フレーム内幅寸法

Low inertia provides smooth starting and rotation.

The housing part is made of polypropylene and the tube is made of a unique hard PVC to improve impact resistance. Ball materials are available in steel (ST) and stainless steel (SUS). You can choose from φ18 to φ57 depending on the application.

- Ideal for transporting lightweight items such as small packages, bottles, cans, food, newspapers, magazines, textiles, and lightweight cartons.

● SERIES FF1

新品番	旧品番	ローラ寸法(mm)			材質		耐荷重(kg)
		D	t	d*2	ボール	チューブ	
FF11 W18	1101 W18	18	1.2	6	SUS	抗菌剤入PVC	5*3
FF10 V20	1010 V20	20	1.5	6	ST	PVC	5*3
FF11 V20	1012 V20	20	1.5	6	SUS	PVC	5*3
FF10 V30	1015 V30	30	1.8	8	ST	PVC	12*3
FF11 V30	1019 V30	30	1.8	8	SUS	PVC	12*3
FF10 V40	1062 V40	40	2.3	10	ST	PVC	18*4
FF11 V40	1020 V40	40	2.3	10	SUS	PVC	18*4
FF10 V50	1070 V50	50	2.8	12*1	ST	PVC	35*4
FF11 V50	1031 V50	50	2.8	12*1	SUS	PVC	35*4
FF10 V57	1081 V57	57	3.0	12*1	ST	PVC	35*4
FF11 V57	1082 V57	57	3.0	12*1	SUS	PVC	35*4

注)ローラ最小長さ:75mm(RL)、ST:スチールボール、

SUS:ステンレスボール、PVC:硬質塩ビ

*1 標準品(ローラ外径φ50、φ57、は軸径φ10、φ14も製作可能です)

*2 d=対応シャフト寸法 *3 ローラ幅(RL)200mmの計測値です。

*4 ローラ幅(RL)300mmの計測値です。

● ローラは受注生産です。ローラ幅RLの乱尺寸法対応可能です。

品番表示

FF1 1 W18-6-RL~

上3桁		4桁目		5桁目		6,7桁目		8,9桁目		
共通		ボール		チューブ		チューブ径		シャフト径		対応チューブ径
FF1	0	ST	W	抗菌剤入PVC	18	φ18		6	φ6	φ18, φ20
	1	SUS	V	PVC	20	φ20		8	φ8	φ30
					30	φ30		10	φ10	φ40, φ57
					40	φ40		12	φ12	φ50
					50	φ50		14	φ14	φ50, φ57
					57	φ57				

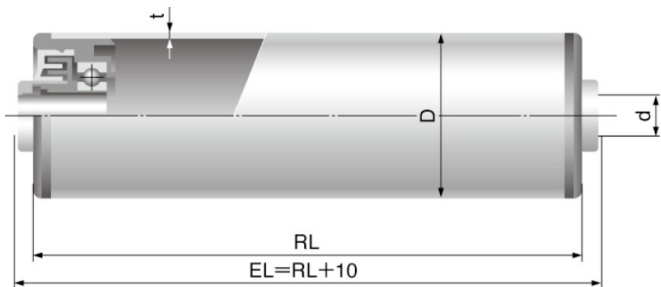
Conveyor roller (medium/heavy load compatible) SERIES FF3



High-performance, multi-purpose roller with improved dustproof and waterproof performance

Adopts a double labyrinth seal for the seal part. A multi-purpose roller with excellent impact resistance and sound deadening properties.

●JIS grade bearing (6002ZZ) is available for the bearing part. In addition, the tube material is hard PVC with excellent impact resistance.



EL:フレーム内幅寸法

●SERIES FF3

新品番	旧品番	ローラ寸法(mm)			材 質		耐荷重*3 (kgf)
		D	t	d*2	ベアリング	チューブ	
FF32 V50	1161 V50	50	2.8	12*1	6002ZZ	PVC	33
FF32 V57	1154 V57	57	3.0	12*1	6002ZZ	PVC	53

注) PVC:硬質塩ビ

*1 標準品(SERIES FF3は軸径φ10、φ12、φ14の製作が可能です)

*3 ローラ幅(RL)400mmの計測値です。 *d=対応シャフト寸法

●ローラは受注生産です。ローラ幅RLの乱尺寸法対応可能です。

品番表示 **FF32 V50-12-RL~**

上3桁	4桁目	5桁目	6,7桁目	8,9桁目	
共通	ベアリング	チューブ	チューブ径	シャフト径	
FF3	2 精密ベアリング	V	PVC	50	φ50
				57	φ57
				10	φ10
				12	φ12
				14	φ14

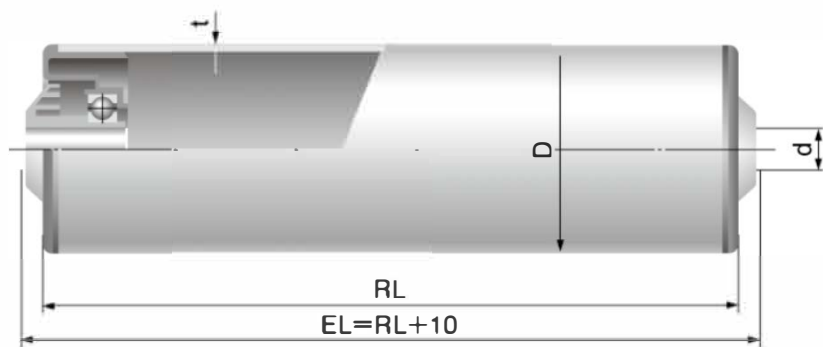
Conveyor roller (medium/heavy load compatible) SERIES FF7



Multi-purpose roller with excellent impact resistance and quietness

The housing is made of polycarbonate, which has excellent impact resistance. A multipurpose roller that can be used in a wide range of fields.

●JIS grade bearing (6002ZZ) is available for the bearing part. In addition, the tube material is hard PVC with excellent impact resistance.



EL:フレーム内幅寸法

●SERIES FF7

新品番	旧品番	ローラ寸法(mm)			材 質		耐荷重*2 (kgf)
		D	t	d*1	ベアリング	チューブ	
FF72 V50	1720 V50	50	2.8	12	6002ZZ	PVC	33
FF72 V57	1722 V57	57	3.0	12	6002ZZ	PVC	53

注) PVC:硬質塩ビ

* d=対応シャフト寸法

* ローラ幅(RL)400mmの計測値です。

● ローラは受注生産です。ローラ幅RLの乱尺寸法対応可能です。

品番表示

FF72 V50-12-RL~

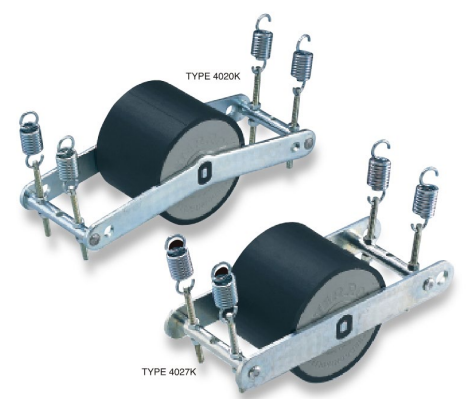
上3桁	4桁目	5桁目	6,7桁目	8,9桁目
共通	ベアリング	チューブ	チューブ径	シャフト径
FF7	2 精密ベアリング	V	PVC	50 φ50
			57 φ57	12 φ12

brake roller

speed control

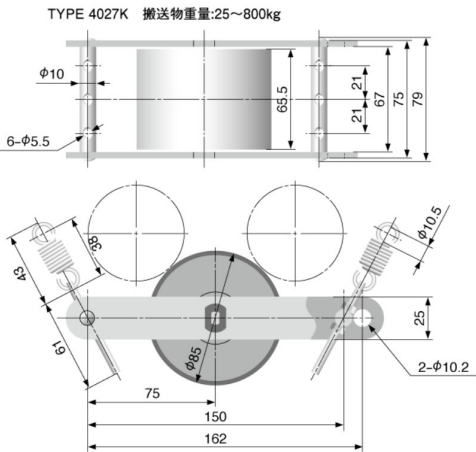
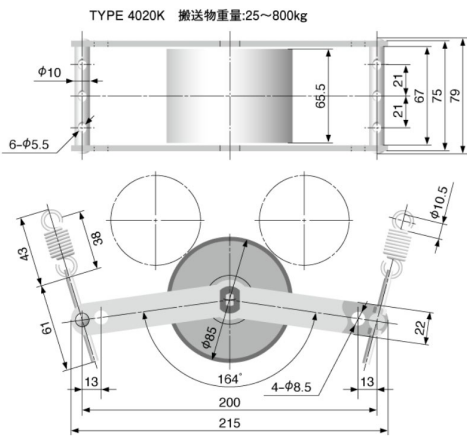
Smoothly control gravity conveyor conveyance speed without the need for power

Brake roller SERIES 4000



Simple mechanism with quiet design and excellent durability

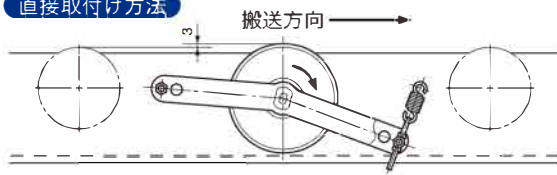
The conveyance speed of objects on inclined conveyor rollers can be controlled without the need for electricity or other power. The contact surface of the brake roller body is made of special rubber and is silent. Moreover, it is maintenance-free and has excellent durability, ensuring long-term performance. Direct or indirect installation methods can be selected depending on the situation of the transported object and conveyor.



品 番	搬送物重量	摘 要	備 考
4020K	25~800kg	J004 4セット付	
4027K	25~800kg	J004 4セット付	
J004		取付用金具	スプリング1ケ+ロッド1ケ+ナット2ケ

ブレーキローラの取付けには、搬送物と直接接触させて制御する直接取付けと、コンベヤローラに接触させ、コンベヤローラを制御し間接的に搬送物をコントロールする間接取付けが可能です。

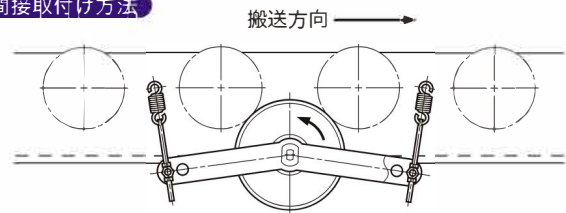
直接取付け方法



パッケージ、トレイ、パレットなど搬送物の底面が比較的平坦な場合には、この方法が適しています。

※この場合、搬送物に十分な制動力を与えられるよう、ブレーキローラをコンベヤローラの上面より1mm～3mm程度高く取付けます。また、使用状況により高さを調整できる取付け方式にしておくことも必要です。

間接取付け方法

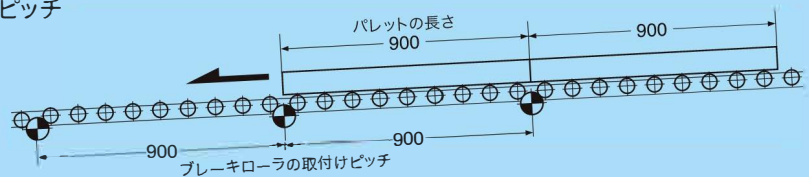


ドラム缶や形の整っていない物など、コンベヤローラと搬送物との間に隙間がある場合や、ブレーキローラ取付けに必要な幅をローラ間に取りれない場合などは、この方法が適しています。

※ 1本のローラに対して取付けることも可能ですが、ローラとローラの間に取付け、同時に2本のローラに接触させる方式が一般的です。

• ブレーキローラの一般的な取付けピッチ

傾斜角度、搬送物の重量、形状、使用ベアリングのタイプなど、種々の条件により、必ずしも一定ではありません。右図のように1パレットにブレーキローラ1個が一般的です。一応の目安として、ご検討ください。なお、取付けピッチは、直接、間接の取付け方法による差異はありません。



※傾斜角度は搬送物やコンベヤの形状により多少異なりますが、一般的には4% (2.3°) が標準となっています。

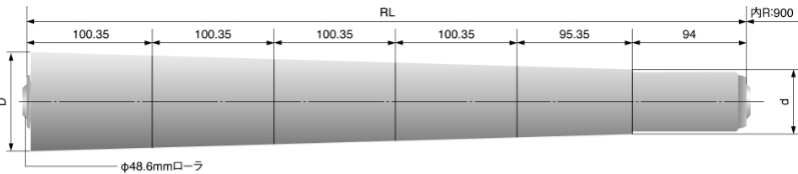
※パレット進入速度は最大 18m/分以下に設定して下さい。

tapered sleeve

Tapered roller SERIES FK1



If you provide us with a $\Phi 48.6\text{mm}$ roller, you can easily use it as a tapered roller by simply attaching a unitized polypropylene tapered sleeve.

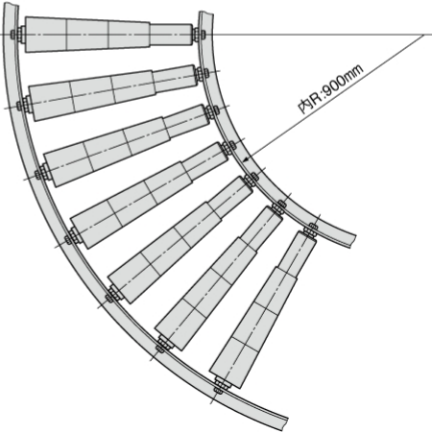


SERIES FK1 FK148 R9	適応ローラ幅 RL(mm) 価格(円)						材質 P.P
	400 (スリーブ3ヶ)	500 (スリーブ4ヶ)	600 (スリーブ5ヶ)	700 (スリーブ6ヶ)	800 (スリーブ7ヶ)	900 (スリーブ8ヶ)	1,000 (スリーブ9ヶ)

注) P.P:ポリプロピレン

スリーブ寸法 (mm 単位)

RL	d	D
400	53.7	69.7
500	53.7	75.1
600	53.7	80.5
700	53.7	85.9
800	53.7	91.4
900	53.7	96.8
1,000	53.7	102.2



conveyor wheel

Easy and economical to assemble. Realizes smooth transportation of lightweight items

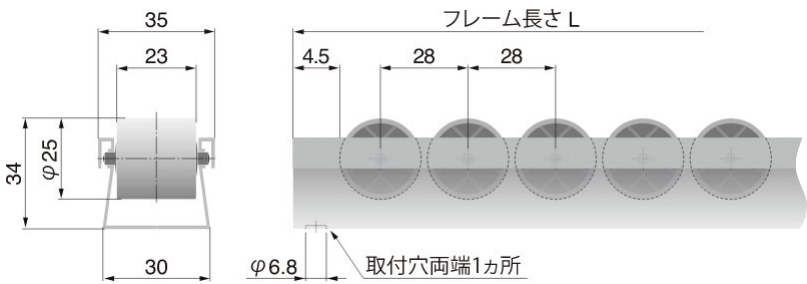
The arrangement allows for flexible transportation of lightweight items such as standard size trays and packages, from small to large items.

Moreover, it is easy to install on racks, and can be used for first-in and first-out racks for parts supply, storage, temporary inventory, etc.

Floway track3



- Material: Foil/High-density polyethylene, Frame/Steel (plated)
- Load capacity: 3kgf/per foil



品 番	機 長(mm)	ホイール数(個)
FT3-1000	1,000	35
FT3-3000	3,000	107

Omni wheel/Mecanum wheel

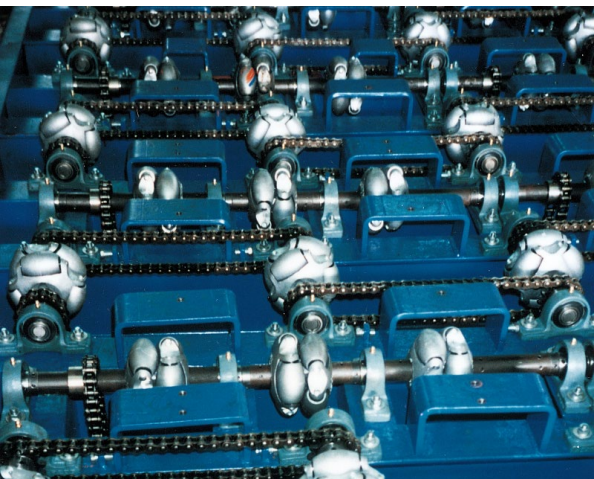
omnidirection

Transport objects such as packages, pallets, and containers can be moved in any direction with small forces.

Omniwheel SERIES 2500



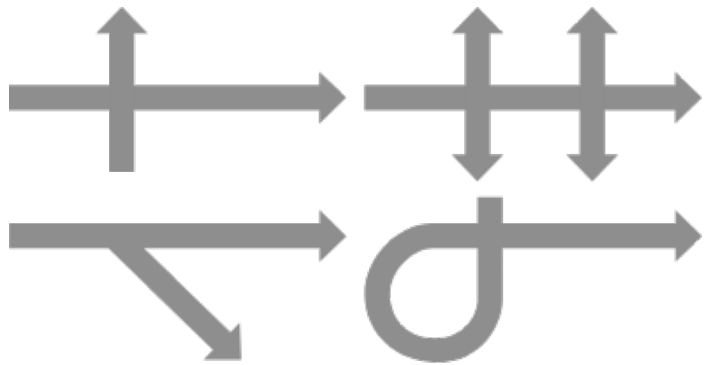
●Air cargo terminal (example of use)



●Omni-wheel driving system (example of use)

Multi-directional moving foil that responds to any flow

The function of the omniwheel is that it can move in multiple directions by combining the rotation of the main body (wheel) on the shaft (back and forth movement) and the rotation of the barrel-shaped roller (barrel) on the circumference (left and right movement). Masu. This allows large containers to be easily moved in multiple directions with a small amount of force. There are four types of omni wheels to choose from depending on the application, from heavy loads to light loads.



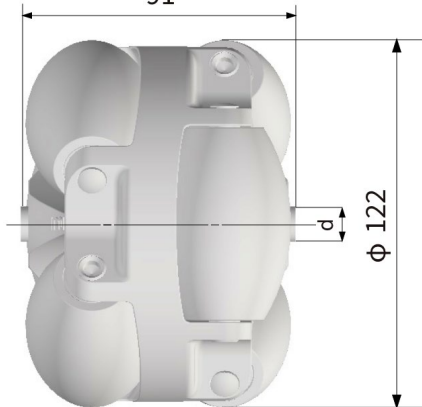
YouTubeにて オムニホイール®

全方向移動型車輪動画配信中。

<https://www.youtube.com/watch?v=ffqZZLjS2WI>



2530-111WN-A
91



Large containers can be handled freely with little force.

Main Specifications

Outer diameter: $\phi 122\text{mm}$

Inner diameter: $\phi 8\text{mm}$

Load capacity: 100kgf/piece

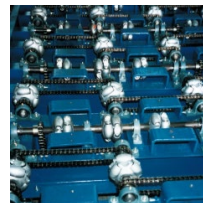
Material: Frame/Aluminum die-cast
barrel/Nylon

bearing part/Precision bearing

<Usage example>



Container trolley

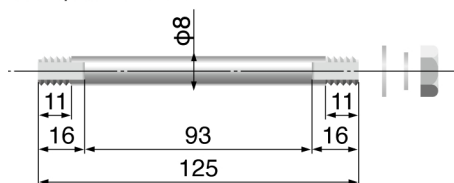


Driving system
with omni wheels



air cargo terminal

オムニ $\phi 8$ 用特型シャフト



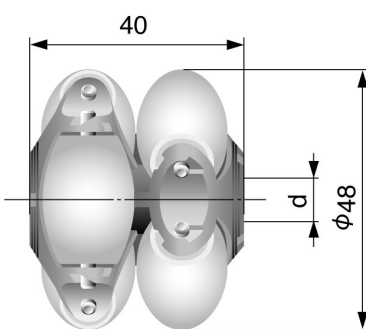
品 番	材 質		耐荷重 (kgf)	回転部軸受仕様		寸法(mm)	
	フレーム	バレル		バレル	本体フレーム	外径	内径(d)
2530-111WN-A	アルミ ダイキャスト	ナイロン	100	精密 ベアリング	精密 ベアリング	122	8

オムニ $\phi 8$ 用特型シャフト

TYPE 2570 (for light loads)



2570



(1個)

By using OmniFrame (TF-48) or OmniMat (TYPE2800), you can easily assemble lines, construct transport terminals, and change layouts.

Main Specifications

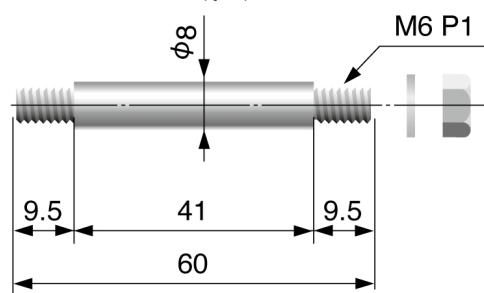
Outer diameter: $\phi 48\text{mm}$

Inner diameter: $\phi 8.1\text{mm}$, hexagonal width across flats 8.1mm
(for driving)

Load capacity: 5kgf/piece

Material: Frame/barrel/nylon

TF-48用シャフト(φ8)



<Usage example>



Container trolley



Driving system
with omni wheels

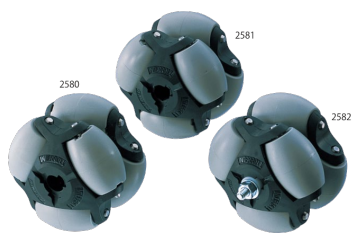


air cargo terminal

品 番	材 質		耐荷重 (kgf)	寸 法 (mm)		摘 要
	フレーム	バレル		外径	内径(d)	
2570	ナイロン		5	48	8.1	
2571	ナイロン		5	48	対辺8.1	駆動用六角穴

TF-48用シャフト(φ8)

TYPE 2580 (for medium/light loads)



Both the main body and barrel are made of nylon, so there is no need to worry about corrosion or toxicity, making it maintenance-free. Also, because it is lightweight, it is ideal for terminals in portable conveyor lines in the food, fisheries, and furniture manufacturing industries.

●Easier installation by using Omniframe (TF-120).

Main Specifications

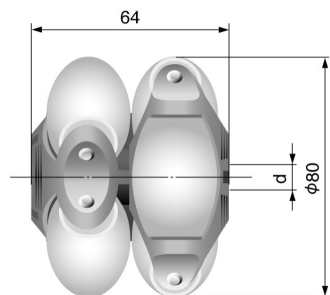
Outer diameter: φ80mm

Inner diameter: φ8.1mm, φ12.2mm, hexagonal width across flats 11.1mm (for driving)

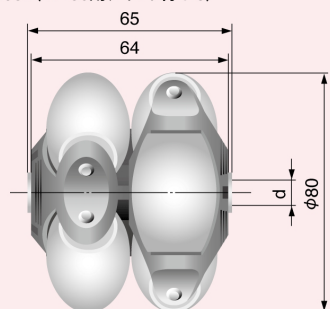
Load capacity: 25kgf/piece

Material: Frame/barrel/nylon

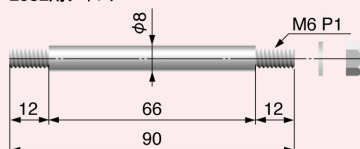
2580/2581



2582 (TF-80用シャフト付 φ8)



2582用シャフト

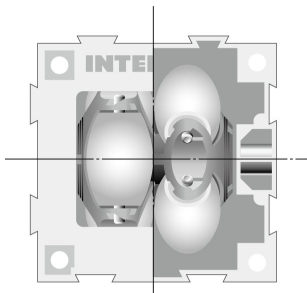


品 番	材 質		耐荷重 (kgf)	寸 法 (mm)		摘 要
	フレーム	バレル		外径	内径(d)	
2580	ナイロン		25	80	12.2	
2581	ナイロン		25	80	対辺11.1	駆動用六角穴
2582	ナイロン		25	80	8.1	TF-80用シャフト付(φ8)

Omnimat TYPE 2800

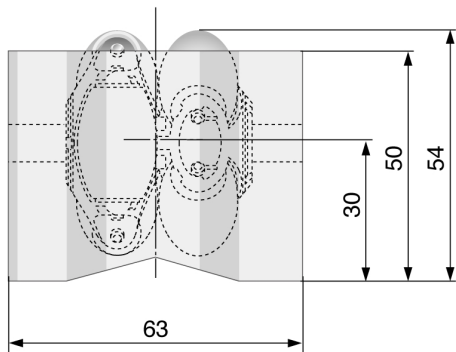
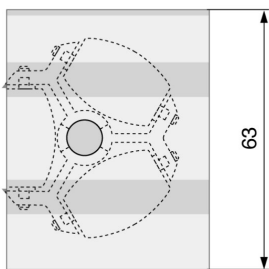


This is a portable conveyor element that can be easily set with the Omniwheel (2570) and can be flexibly adapted to lines and terminals just like the Omniframe. By using the closed type (TYPE2801), you can build a waste-free system.



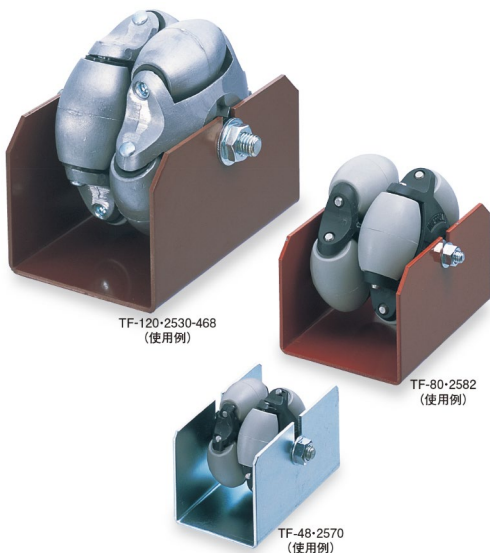
Main Specifications

Load capacity: 5kgf
Material: Polypropylene
Shaft diameter used: $\phi 8\text{mm}$

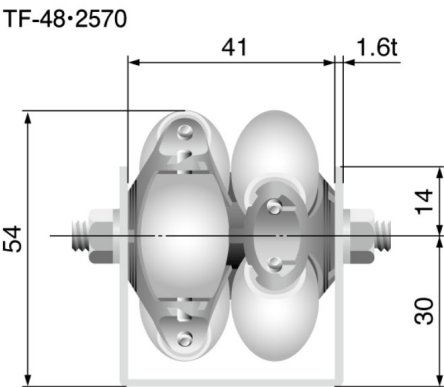


品 番	シャフト径 (ϕmm)	材 質	摘 要
2800/ 2570	8	ポリプロピレン	オムニホイール TYPE 2570付

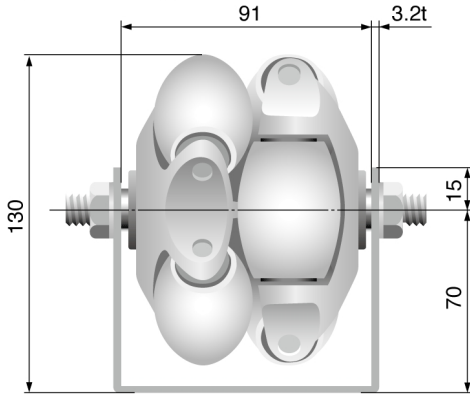
Omniframe TF-120/80/48



Just by setting the Omni-wheel, you can easily construct a conveyor line or terminal.



TF-120・2530-468/568

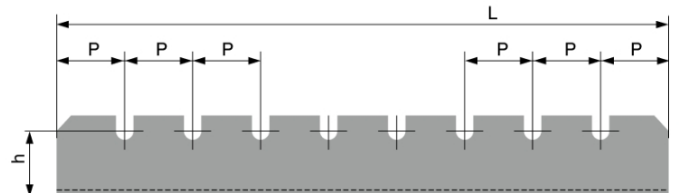
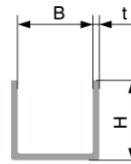


●TF-120 (2530-468(568)用オムニフレーム)

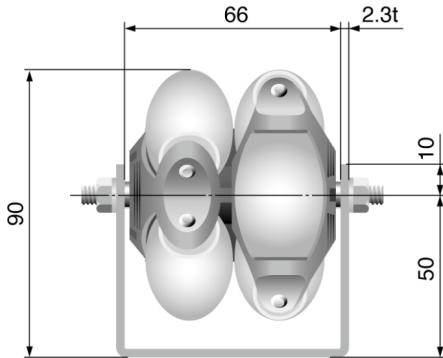
品番	寸法L(mm)		寸法(mm)					材質	仕上
	150	1050	P	H	h	B	t		
TF-120	—	—	75	85	70	91	3.2	スチール	防錆塗装

●TF-48 (2570用オムニフレーム)

品番	寸法L(mm)		寸法(mm)					材質	仕上
	75	500	P	H	h	B	t		
TF-48	—	—	50	44	30	41	1.6	スチール	メッキ



TF-80・2582



●TF-80 (2582用オムニフレーム)

品番	寸法L(mm)			寸法(mm)					材質	仕上
	100	1000	1500	P	H	h	B	t		
TF-80	—	—	—	50	60	50	66	2.3	スチール	防錆塗装

Omni-wheel that realizes movement in a different dimension

Omni-wheel movable wheel

The functions of the omni-wheel are the same!!

Can be installed as wheels or casters!!

The conventional combination of the rotation of the main body (wheel) (back and forth movement) and the rotation of the barrel-shaped roller (barrel) on the circumference (left and right movement) is utilized in the wheels to achieve ``another dimension of movement''!

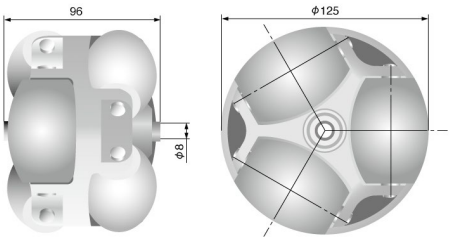
By using the special frame (TFC 125-7485), you can easily replace the casters you are using.



TYPE2530 (for wheels)



2530-111WU



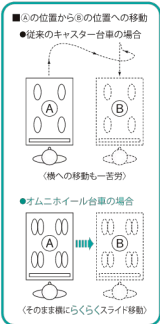
Newly designed as an omni wheel.
JIS grade bearings are used to achieve low starting resistance, and the integrated frame provides high load and impact resistance.

●Easier installation using Omniframe (TFC 125-7485).

Main Specifications

- Outer diameter: $\phi 125\text{mm}$
- Inner diameter: $\phi 8\text{mm}$
- Load capacity: 120kgf/piece
- Material: Frame/aluminum die-cast
barrel/polyurethane
bearing part/JIS grade bearing

品 番	材 質		耐荷重 (kgf)	回転部軸受仕様		寸法(mm)	
	フレーム	バレル		バレル	本体フレーム	外径	内径
2530-111WU	アルミダイキャスト	ポリウレタン	120	精密ベアリング	精密ベアリング	125	8



●サイドワゴン装着例

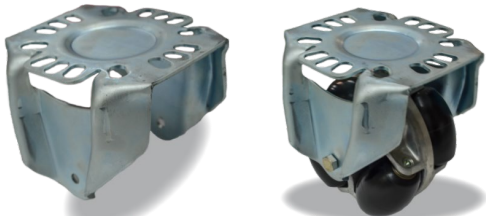


従来型オムニホイール使用例



●平台車装着例

Omniframe TFC 125-7485



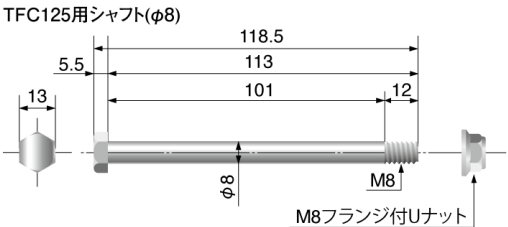
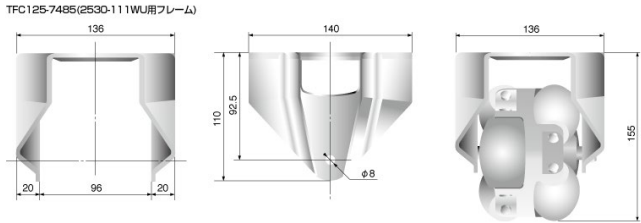
TFC125-7485
(2530-111WU用フレーム)

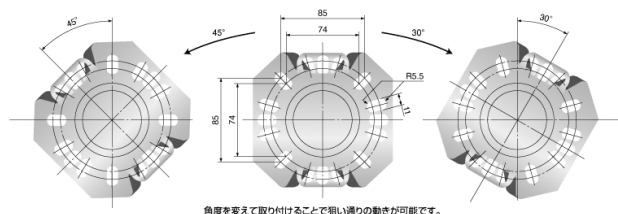
TFC125・2530-111WU
(意匠登録 第1495352号)

Newly designed frame for 2530-111WU.
Easily replace existing casters with multiple mounting holes .

Main Specifications

Material: Steel
Finish: Plated





TFC125-7485(2530-111WU用フレーム)

TFC125用シャフト(φ8)

Further evolving movement in another dimension!

Mecanum type Omni-directional drive wheel

Omni-directional drive wheel uses the drive rotation (back and forth movement) of the main body (wheel) and the barrel (barrel-shaped roller) on the circumference tilting 45 degrees left and right.

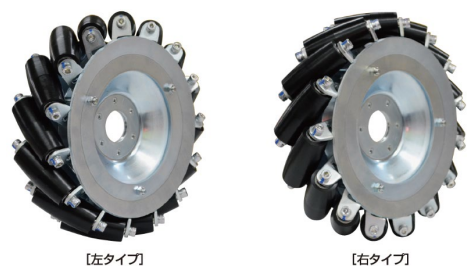
Omnidirectional movement is possible by the combination of two types of wheels.

By independently controlling the four wheels, he can move in all directions without changing the mounting angle of the wheels themselves, even without a steering mechanism.

(Design registration “Intention 2014-4458”)

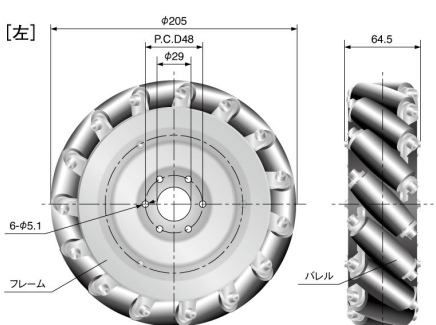
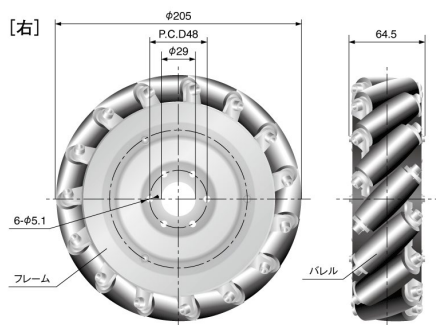


Mecanum wheel [Omni wheel function + α]



Omnidirectional drive wheels have a wheel surface (on the circumference) covered by a barrel (barrel roller) inclined at 45° to the axle.

In addition to the same movement as a conventional wheel by transmitting the driving force of the motor, by controlling the rotation direction and speed of the four motors, the combination of the rotation of the wheel and the rotation of the barrel on the circumference is achieved. and realizes omnidirectional movement.



Main Specifications

Outer diameter: φ205mm

Installation dimensions: PCD48

Load capacity: 100kg/piece

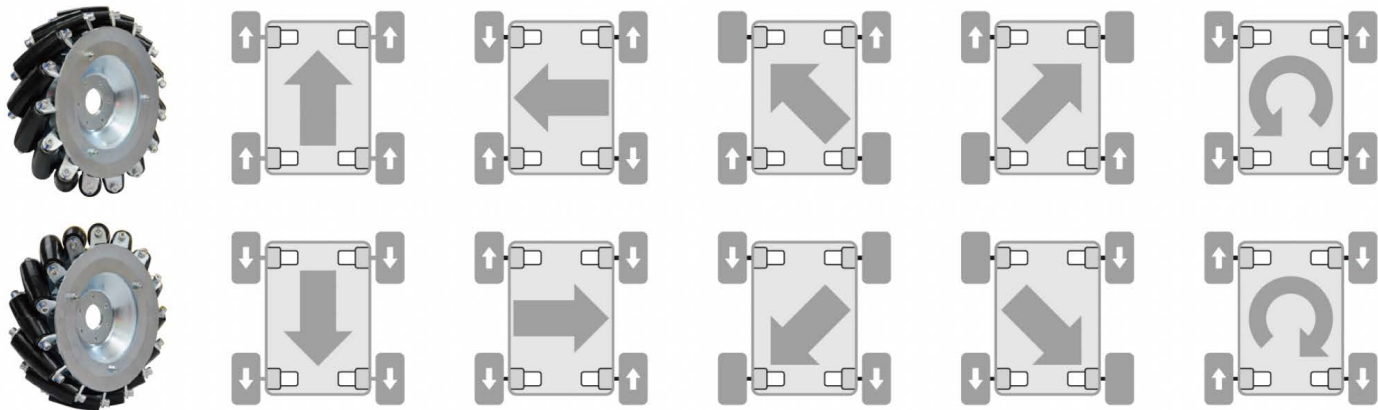
Material: Frame/Steel

barrel/Polyurethane

barrel bearing part/JIS grade bearing

品 番	材 質		耐荷重 (kgf)	回転部軸受仕様 バレル	寸法(mm) 外径	取付け寸法
	フレーム	バレル				
FM202-205-15U-R	スチール	ポリウレタン	100	精密ベアリング	205	P.C.D48
FM202-205-15U-L	スチール	ポリウレタン	100	精密ベアリング	205	P.C.D48

独立四輪駆動+全方向駆動型車輪でスムーズな全方向移動を可能にします。





電動モビリティの可能性を無限大に。

オムニホイール

OMNI WHEEL

TYPE Mobility

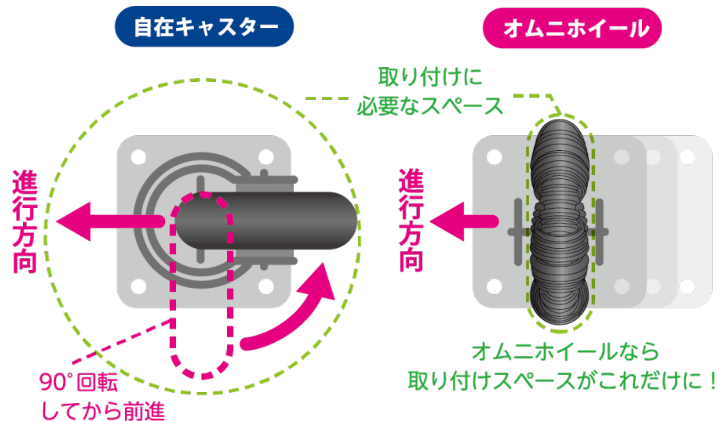


The wheel that will become the core of next-generation mobility has been created, adding the comfort of carrying people to the omni wheel that enables parallel movement in both the front and back, left and right directions. We are pioneering the future of mobility in medical and nursing care settings, public facilities, and amusement areas.

Point 1

smooth change of direction

Omni-wheels, which do not have a swing function, reduce the load during the "initial movement", which is the heaviest part of transport, and achieve smooth movement.



Point 2

Space - saving installation possible

The wheel width is 40% smaller than our conventional product. And omniwheels, which do not have a swing function like swivel casters, do not require space for the swing part, so the space under your feet can be used effectively.

Point 3

Reduce vibration & running noise

The use of special rubber reduces vibration by approximately 60% compared to conventional Omni wheels, and at the same time reduces running noise.

*Compared to our company

specification

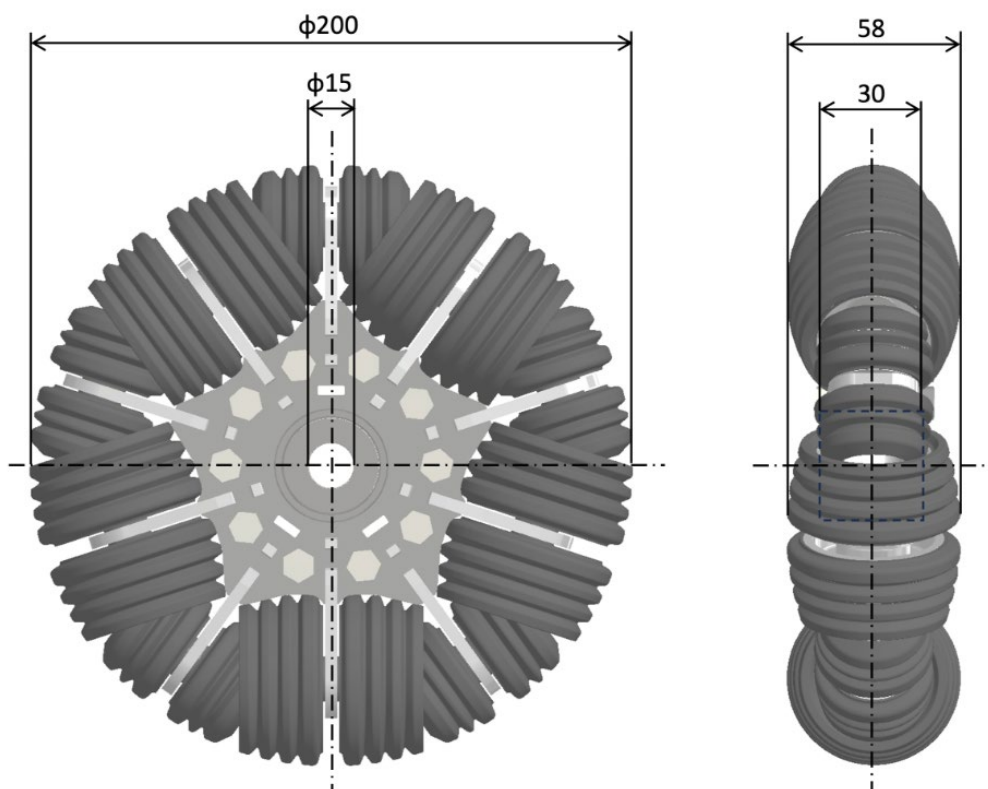
Product number:FM122-200-20G2-1-B

size:Outer diameter: 200mm, mounting shaft diameter: 15mm, width: 58mm

Load capacity:50kgf

Material:(Frame) SUS304, (Barrel) Special rubber, (Others) Steel

bearing:JIS grade bearing (rubber seal type + steel)



GOOD DESIGN AWARD
2020年度受賞GOOD DESIGN AWARD 2020
BEST 100

FUJI NINJA WHEEL® won the "2020 Good Design Best 100" as well as the "Good Focus Award [Technology/Traditional Design] Small and Medium Enterprise Agency Director's Award"!

The award-winning product is an unparalleled omnidirectional drive wheel for transport vehicles that can travel in any direction.

The design is both functional and futuristic, and once you see it, it's geometric and beautiful and leaves a lasting impression.

✧ Review committee evaluation

It is a wheel that realizes omnidirectional movement by individually controlling the rotation of each wheel.

This product, which is used in automatic guided vehicles and other devices that are becoming increasingly important in the logistics industry,

has a significantly increased load capacity while keeping the outer diameter smaller than conventional products. I would like to commend the company for achieving its highly difficult goal through a series of unique innovations, such as dividing the roller in the center and shifting the axis to achieve smooth rotation. The streamlined geometric design also has aesthetic appeal.

✧ Purpose

As labor shortages and soaring labor costs become a problem on a global scale,

we are confident that the emergence of automated guided vehicles will change the next "transportation culture."

This WHEEL is useful for automation in the world because it does not shake due to the swing of general-purpose casters and is suitable for tracing according to the program by remote control.

✧ In product development

We have been selling wheels with a barrel-shaped roller tilted 45 degrees around the outside with an outer diameter of 205 mm and a load capacity of 980 N (100 kgf), which are used in tow-type automatic guided vehicles, etc. However, we heard from our customers that they wanted wheels with a smaller outer diameter and greater load capacity that could be used on automated guided vehicles that actually load and transport vehicles, so in order to solve the customer's problems, we We have started developing wheels with an outer diameter of 150mm and a load capacity of 2940N.

✧ Origin of name

The name FUJI NINJA WHEEL[®] comes from the fact that the WHEEL, which moves in all directions, reminds us of the elusive ninja, and because Iga City, Mie Prefecture, where our factory is based, is the birthplace of the ninja. I named it.

✧ point

360° parallel movement in all directions is possible.

These are two types of wheels with half-barrel-shaped rollers tilted at 45 degrees to the axial direction placed on the outer periphery of the wheel. These wheels allow movement in any direction by attaching a motor to each wheel and creating a vehicle body that can control rotation.

Load capacity 300kg /piece

It can easily carry 1 ton with just 4 wheels.

Ideal for wheels of AGVs, self-propelled robots, and flexible trolleys!

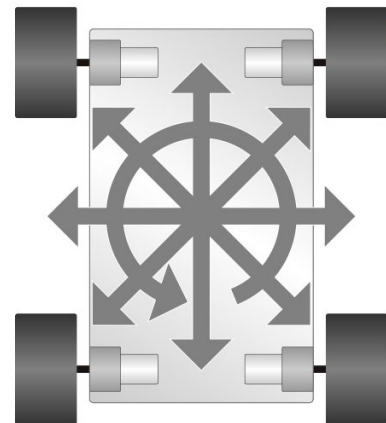
A strong ally in unmanned transportation solutions.

We will accelerate unmanned solutions for dangerous work in factories and warehouses and solve the problems of aging and lack of human resources.

reduce vibration

By shifting the axis of the half-barrel roller, we have made the outer circumference of the wheel closer to a circle.

独立四輪駆動＋全方向駆動型車輪
でスムーズな全方向移動が可能！



Space saving

The frame is made of a combination of aluminum and steel, reducing the width dimension.

Ensure load capacity

By dividing the barrel roller, the bearing size is increased and the shaft is shortened.

specification

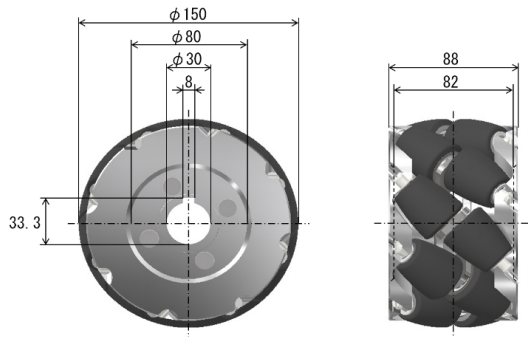
Product number: FM21K-150-16U2-(L/R)-N

size: Outer diameter 150mm, inner diameter (shaft diameter) 30mm, width 88mm

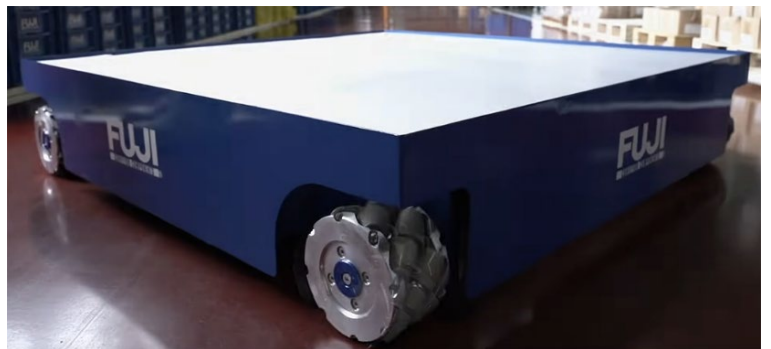
Load capacity: 2,940N (300kgf)

Material: Frame (aluminum + steel) Half-barrel roller (urethane + steel)

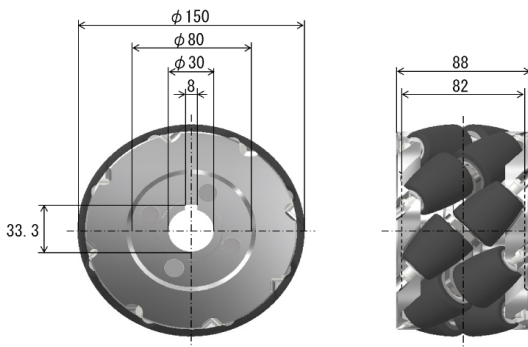
【L type】



<Usage example>



【R type】



✧ With a new life

In particular, as a result of the spread of the new coronavirus, we believe that there is an opportunity to transform the way things are moved and transported in a wide range of areas, while integrating them into new daily lives and lifestyles.

Therefore, our customers often ask us, ``Is there a movement like this?!" This FUJI NINJA WHEEL® is an electric automated guided vehicle called AGV, which can accurately and delicately transport complex spaces.

It is becoming a product that empathizes with people's thoughts and movements.

✧ future future

FUJI NINJA WHEEL® is a rare item that does not exist in the world today, but in the near future it will become a "civilized product" that will be used as a matter of course, and it will evolve into vehicles such as cars and mobility, and will definitely enrich people's lives. I am sure that the time will come when it will be more convenient!

Introducing FUJI NINJA WHEEL®



• What is the Good Design Award?

This is Japan's leading design evaluation and promotion activity, inheriting the Good Design Product Selection System established in 1957. As a global design award in which many domestic and international companies and organizations participate, it is held every year with the aim of improving the quality of life and using design to solve social issues and themes. The ``G Mark'', which is also the symbol of the award, is widely known as a symbol of excellent design.

• What is the Good Design Special Award?

The award is given to a design that is recognized as one that further advances life, industry, and society and hints at the future.

• What is the Good Focus Award [Technology/Traditional Design] (Small and Medium Enterprise Agency Commissioner Award)?

Among the Good Design Award recipients for small and medium-sized enterprises selected in 2020, this award is recognized as a product with a particularly excellent design that was realized using advanced technology and skills.