



# CASTER CATALOG

JAPAN Design



Actively listen to clients feedbacks,  
Transform new values into "functions".  
Effectively solve problems in the workplace.

# An end-to-end production from each individual component to the finished product in response to the needs of our client.

We inspire to be the best business partner by providing our client with satisfaction and peace of mind, providing quick and precise service.

To meet the increasingly high and diverse demand, YUEI Has developed a new generation of caster using proprietary technology, ensuring fast delivery time.

YUEI use the latest technologies, new material and machinery while maintaining strict testing and quality control in order to produce the best quality product.

Furthermore, at YUEI our mission is to provide "the right amount of product needed, then needed" to meet our client demand. In order to meet this goal, we created an efficient system that our customer can entrust in.

To meet our client's need, we produce many of our product's parts internally, design, source and manufacture in collaboration with our partners.



# JAPAN Design

## A manufacturing system that constantly generates new value.

### 1. Planning



Planning to generate unique product value through segmentation, targeting, positioning, etc.

### 2. Design and Develop



Using the most suited material for the most optimal design. A professional developing process of an industry leader.

### 3. Sourcing



Picking the most suitable material to realize our design. -We create competitive advantage because of the process of implementing new technology and learning about new material.

### 4 Manufacturing



Molding process  
Pressing process  
Assembly process

### 5. Sale



Monitor order status in real-time. Incorporate customer feedback into our design, development and ensure collaboration.

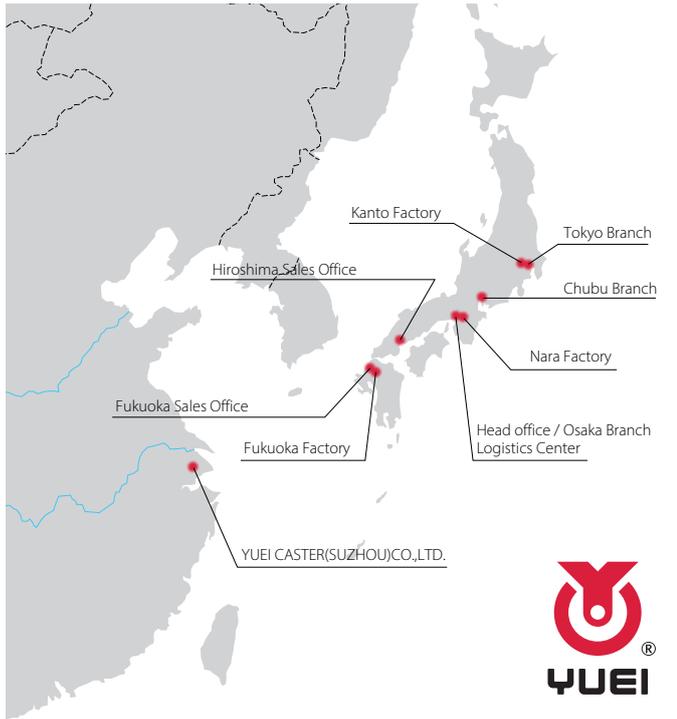
### 6 Delivery



Produce and deliver a wide range of products. Achieve efficiency in a logistics system capable of nationwide delivery.

From "mold design and manufacturing" to "press processing" and "resin injection molding," we handle everything from caster components to final products through an integrated internal production process. We select the most suitable materials according to the product's application and have introduced the latest technologies for injection molding of resin parts. This enables flexible production with full automation, accommodating both large-scale and small-scale manufacturing.

# Affiliated Companies / Caster Division Office Locations



- Overseas Sales Department** : 〒540-0025 2-1-10 Tokui-cho, Chuo-ku, Osaka City, Osaka Prefecture Yuei Building  
Tel. +81-6-4791-3585 (direct) Fax. +81-6-4791-3576
- Tokyo Branch** : 〒101-0021 6-13-10 Sotokanda, Chiyoda-ku, Tokyo Prostec Akihabara 2F  
Tel. +81-3-5816-1155 (main) Fax. +81-3-5816-1156
- Chubu Branch** : 58 Warizukacho, Kasugai City, Aichi Prefecture, 486-0824  
Tel. +81-568-86-3066 (main) Fax. +81-568-86-3067
- Osaka Branch** : 〒540-0025 2-1-10 Tokui-cho, Chuo-ku, Osaka City, Osaka Prefecture Yuei Building 4F  
Tel. +81-6-4791-3586 (direct) Fax. +81-6-4791-3576
- Hiroshima Sales Office** : 〒733-0002 2-5-18 Kusunoki-cho, Nishi-ku, Hiroshima City, Hiroshima Prefecture Shinko Building, Room 102  
Tel. +81-82-509-2105 Fax. +81-82-237-2455
- Fukuoka Sales Office** : 11-6 Narayacho, Hakata-ku, Fukuoka, Fukuoka Prefecture, 812-0023 NS Naraya Building 3F  
Tel. +81-92-261-5607 Fax. +81-92-261-5608
- Logistics Center** : 1-5-44 Honjo Nishi, Higashiosaka City, Osaka Prefecture, 578-0965  
Tel. +81-6-7657-5510 Fax. +81-6-7660-5620

Affiliated companies -Partner company



## Teimo Co., Ltd.

Our main product, box pallets, plays a significant role in transporting and storing materials and products, from line to line and factory to factory.

Affiliated companies -Partner company



## Rotary Co.,Ltd.

Specialize plastic manufacturer.  
Providing one-stop production for a wide range of plastic products, from design to mass production.

Production Facility



## YUEI CASTER(SUZHOU)CO.,LTD.

Established in 2014 in Wujiang, Jiangsu Province, China.  
Moving forward, we will expand our manufacturing efforts to target companies in Asia. First we aim at China, and then America.  
Armed with the reliable technical expertise cultivated in the quality-demanding Japanese market, we aim to infiltrate the global market.

Production Facility



## Pacific Yuei Vietnam Co., Ltd.

Established in 2018 in Vinh Phuc, near Ha Noi, Vietnam  
We have started production of transportation equipment and resin-molded components.  
In the future, we will expand our production line to include casters and strengthen the global supply chain, building a system that ensures a stable supply of high-quality products.

Showroom



## YTC Tokyo YUEI's Technology Center

A showroom where you can experience YUEI's IoT system. In addition to the latest caster products, we will propose the integrated sensor network system "YUEI Connection System," which allows for the construction of an IoT environment.

- Kanto Factory** : 3-5-5 Akanedai, Hanno City, Saitama Prefecture, 357-0069  
Tel. +81-42-983-6111 Fax. +81-42-983-6115
- Nara Ikezawa Factory** : 321-9 Ikezawa-cho, Yamatokoriyama City, Nara Prefecture, 639-1032  
Tel. +81-743-56-8751 (main) Fax. +81-743-56-8750
- Nara Nukatabe Factory** : 374-4, Nukatabeminamicho, Yamatokoriyama City, Nara Prefecture, 639-1035  
Tel. +81-743-56-8891 (main) Fax. +81-743-56-8892
- Fukuoka Factory** : 474-124 Akaike, Fukuchi-machi, Tagawa-gun, Fukuoka Prefecture, 822-1101  
Tel. +81-947-28-5722 (main) Fax. +81-947-28-5625
- FS Nara Factory** : 3-1 Imakokufucho, Yamatokoriyama City, Nara Prefecture, 639-1031  
Tel. +81-743-57-7771 (main) Fax. +81-743-57-7772
- YUEI CASTER(SUZHOU)CO.,LTD.** : No.100, Yefeng Rd., Wujiang Economic and Technological Development Zone, Suzhou, China  
Tel.+86-0512-6310-0778
- PacificYueiVietnamCo.,Ltd.** : Lot 1, Binh Xuyen Industrial Zone, Huong Canh Town, Binh Xuyen District, Vinh Phuc Province, Hanoi, Vietnam.  
Tel.+84-21-1358-0990
- YTC Tokyo (Tokyo Office)** : 〒101-0021 6-13-10 Sotokanda, Chiyoda-ku, Tokyo Prostec Akihabara 2F  
Tel. +81-3-5816-1155 (main) Fax. +81-3-5816-1156

# PMS Type

Achieve cost reduction and on-site improve productivity through high durability.

High Durability

Low Rolling Resistance, Easy Maneuverability

Reliable Japan Quality



## First Point:

High Durability helps reduce operation cost.

Aren't Japanese casters expensive?



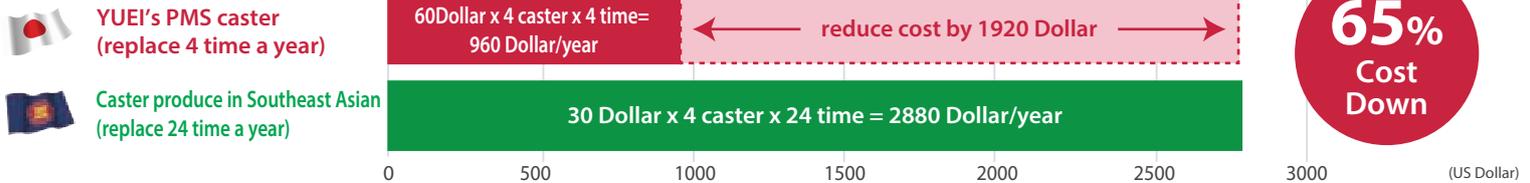
No. You can reduce operational cost.

Example: in the case of a tier 1 factory in South East Asian. In the harsh working environment the caster wheel has to be replaced twice a month.



After changing to YUEI's PMS caster, the frequency of replacement is reduced and the overall annual operation cost is reduced by 65%.

## A cost simulation using 1 Trolley as an example:



If you have 100 trolleys you can cut operation costs by **192,000**Dollars per year.

## Second Point:

Easy Maneuverability Improve work environment!

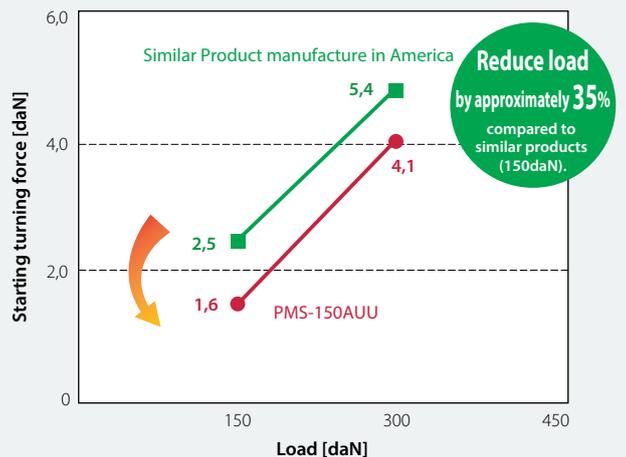
The "Ultimate PU PMS Type" provide Effortless Mobility



Caster produce in America require a starting turning force of 2.5 kg (5.51 lbs)



PMS-150AUU require a starting turning force of 1.6 kg (3.52 lbs)



Starting turning force test results (180 starting turning force) \*per caster Unit: daN

Testing product name	Load of 150 daN	Load of 300 daN
PMS-150AUU	1.6	4.1
Similar Product manufacture in America	2.5	5.4

# Low Floor Heavy Duty Caster

High quality product line with an extremely durable design.



## First point:

High loading capability and durability, suitable for moving substantial weight.

The HSG is extremely durable



### Pressure test result (vertical)

\*1 Caster

Testing product name	Force (daN)	Deformation (mm)
HSG-50GNB (YUEI's product)	2,833	5.92(0.233 inches)
Similar product of other manufacturer (Chinese Origin)	417	1.43 (0.0393 inches)

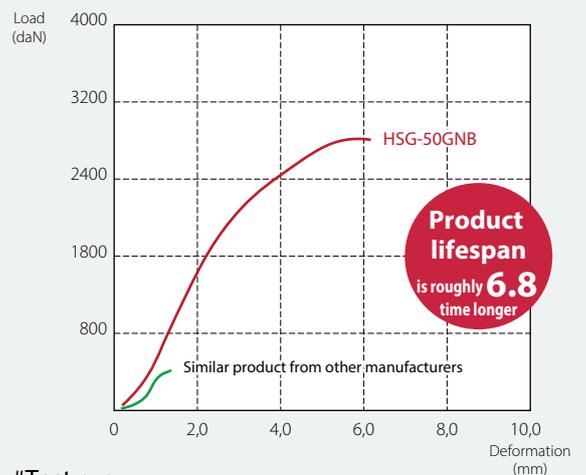
### Caster with high load capacity, excellent durability, and a long product lifespan.

The maximum load capacity in the pressure of the HSG-50GNB model is 2,833 daN. This product is approximately 6.8 times more durable than similar products from other manufacturers (417 daN) and is suitable for transporting heavy items. Its high toughness and damage resistance mean lower replacement frequency, contributing to lower operational costs.

Furthermore, during testing the HSG-50GNB model showed no abnormalities even after covering a minimum distance of 10 km (6.21 miles), other manufacturers' products however, tend to break after 4.57 km (2.84 miles) of testing.

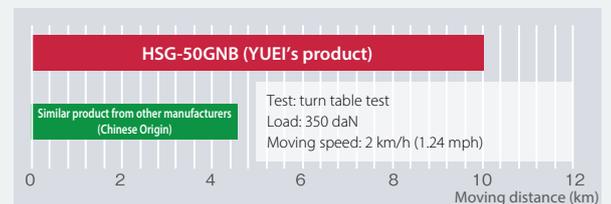
Note: This is a performance comparison test based on YUEI's own research and is not a certified value statement.

### #Durability test



Product lifespan is roughly 6.8 time longer

### #Test run



## Second point:

Materials achieve high load capacity and reduce permanent deformation from compression.

For caster used under the pressure from heavy objects for long periods (such as machinery), we use the most optimal materials.

- The metal parts of the caster are hardened to enhance durability.
- The toughness of the wheel material minimizes permanent deformation.

<p><b>Phenolic Plastic</b></p> <p>Compared to thermoplastic caster, thermoset phenolic plastic has superior abrasion resistance and heat resistance.</p>	<p><b>MC Nylon (Monomer-Cast Nylon)</b></p> <p>Compared to reinforced nylon or phenolic plastic wheels, MC nylon wheels have even greater load capacity and impact resistance. MC nylon offers excellent resistance to oil, chemicals, cold, and weather.</p>	<p><b>Reinforced Nylon</b></p> <p>Offers better impact resistance compared to standard nylon plastic wheels.</p>	<p><b>PU</b></p> <p>For wheels requiring elasticity, we recommend PU wheels with pressure-cast aluminum rims.</p>
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# PMS Type $\phi$ 100 130 150 200

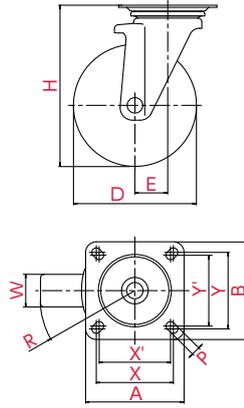
**Swivel**

**Plate Type**

BZP (Brilliant Zinc Plating)	CP (Chromium Plating)
Single Bearing	Double Bearing
Single Stopper	Double Stopper



PMS-150AW



**Mounting Method** **Plate Type**



**Usage**

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley\*
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Fixed**



The picture is a typical product image.

Order Example: **PMS** | **-** | **150** | **AW**  
Bracket Type      Wheel Diameter      Wheel Type

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
100	PMS-100WB	Rubber (with bearing)	120(122,4)	32	144	95×95	74×74(67×67)	11	32	82
	PMS-100UWB/INJ	PU (with bearing)	180(183,6)							
	PMS-100GUB		160(163,2)							
	PMS-100AUU	Ultimate PU (with bearing)	250(255,0)							
130	PMS-130WB	Rubber (with bearing)	180(183,6)	40	177	110×110	90×90(80×80)	11	40	105
	PMS-130UWB/INJ	PU (with bearing)	250(255,0)	35						
	PMS-130GUB		220(224,4)	40						
150	PMS-150WB	Rubber (with bearing)	200(204,0)	40	198	120×120	94×94(87×87)	11	40	115
	PMS-150AW*	Abrasion Resistant Rubber (with bearing)	250(255,0)	42						
	PMS-150UWB/INJ	PU (with bearing)	300(306,0)	38						
	PMS-150GUB		250(255,0)	40						
	PMS-150AUU	Ultimate PU (with bearing)	350(357,0)	42						
200	PMS-200WB	Rubber (with bearing)	250(255,0)	43	250	144×144	120×120(105×105)	11,5	56	156
	PMS-200AW*	Abrasion Resistant Rubber (with bearing)	300(306,0)	45						
	PMS-200UWB/INJ	PU (with bearing)	400(408,0)	42						
	PMS-200GUB		350(357,0)	43						
	PMS-200AUU	Ultimate PU (with bearing)	400(408,0)	45						

\*Only AW model casters are suitable for towing with motor vehicle.

**Wheel Types**

<b>WB</b> Wheel Hub: Steel Plate Wheel Tread: Rubber (with bearing)	<b>AW</b> Wheel Hub: Aluminum Wheel Tread: Abrasion Resistant Rubber (with bearing)	<b>UWB/INJ</b> Wheel Hub: Steel Plate Wheel Tread: PU (with bearing)	<b>GUB</b> Wheel Hub: Nylon Wheel Tread: PU (with bearing)	<b>AUU</b> Wheel Hub: Aluminum Wheel Tread: Ultimate PU (with bearing)

# PMS-LB[R] Type $\phi$ 130 150 200

Swivel

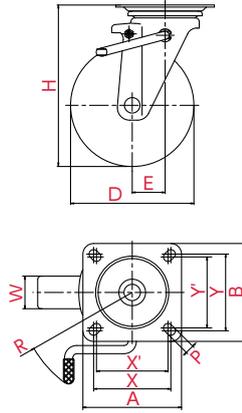
Plate Type

BZP (Brilliant Zinc Plating) CP (Chromium Plating)

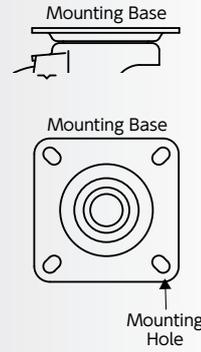
Single Bearing Double Bearing  
Single Stopper Double Stopper



PMS-150AWLB(R)



Mounting Method Plate Type



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley\*
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed

The picture is a typical product image.

Order Example: **PMS** - **150** **AW** **LB** **(R)**  
Bracket Type Wheel Diameter Wheel Type Stopper Lever Direction



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
100	PMS-100WBLB(R)	Rubber (with bearing)	120(122,4)	32	144	95×95	74×74(67×67)	11	32	112
	PMS-100UWBLB(R)/INJ	PU (with bearing)	180(183,6)							
	PMS-100GUBLB(R)		160(163,2)							
	PMS-100AUULB(R)	Ultimate PU (with bearing)	250(255,0)							
130	PMS-130WBLB(R)	Rubber (with bearing)	180(183,6)	40	177	110×110	90×90(80×80)	11	40	136
	PMS-130UWBLB(R)/INJ	PU (with bearing)	250(255,0)	35						
	PMS-130GUBLB(R)		220(224,4)	40						
150	PMS-150WBLB(R)	Rubber (with bearing)	200(204,0)	40	198	120×120	94×94(87×87)	11	40	136
	PMS-150AWLB(R)*	Abrasion Resistant Rubber (with bearing)	250(255,0)	42						
	PMS-150UWBLB(R)/INJ	PU (with bearing)	300(306,0)	38						
	PMS-150GUBLB(R)		250(255,0)	40						
200	PMS-200WBLB(R)	Rubber (with bearing)	250(255,0)	43	250	144×144	120×120(105×105)	11,5	56	156
	PMS-200AWLB(R)*	Abrasion Resistant Rubber (with bearing)	300(306,0)	45						
	PMS-200UWBLB(R)/INJ	PU (with bearing)	400(408,0)	42						
	PMS-200GUBLB(R)		350(357,0)	43						
	PMS-200AUULB(R)	Ultimate PU (with bearing)	400(408,0)	45						

\*Only AW model casters are suitable for towing with motor vehicle.

**Wheel Types**

- WB**: Wheel Hub: Steel Plate, Wheel Tread: Rubber (with bearing)
- AW**: Wheel Hub: Aluminum, Wheel Tread: Abrasion Resistant Rubber (with bearing)
- UWB/INJ**: Wheel Hub: Steel Plate, Wheel Tread: PU (with bearing)
- GUB**: Wheel Hub: Nylon, Wheel Tread: PU (with bearing)
- AUU**: Wheel Hub: Aluminum, Wheel Tread: Ultimate PU (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# PMS-LB[L] Type $\phi$ 130 150 200

Swivel

Plate Type

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

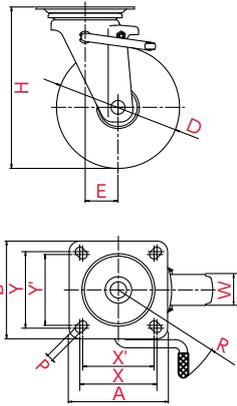
Double Bearing

Single Stopper

Double Stopper



PMS-150AWLB(L)



### Mounting Method Plate Type



### Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley\*
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed



The picture is a typical product image.

Order Example: **PMS** | **-** | **150** | **AW** | **LB** | **(L)**  
 Bracket Type | Wheel Diameter | Wheel Type | Stopper | Lever Direction

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
100	PMS-100WBLB(L)	Rubber (with bearing)	120(122,4)	32	144	95×95	74×74(67×67)	11	32	112
	PMS-100UWBLB(L)/INJ	PU (with bearing)	180(183,6)							
	PMS-100GUBLB(L)		160(163,2)							
	PMS-100AUULB(L)	Ultimate PU (with bearing)	250(255,0)							
130	PMS-130WBLB(L)	Rubber (with bearing)	180(183,6)	40	177	110×110	90×90(80×80)	11	40	136
	PMS-130UWBLB(L)/INJ	PU (with bearing)	250(255,0)	35						
	PMS-130GUBLB(L)		220(224,4)	40						
150	PMS-150WBLB(L)	Rubber (with bearing)	200(204,0)	40	198	120×120	94×94(87×87)	11	40	136
	PMS-150AWLB(L)*	Abrasion Resistant Rubber (with bearing)	250(255,0)	42						
	PMS-150UWBLB(L)/INJ	PU (with bearing)	300(306,0)	38						
	PMS-150GUBLB(L)		250(255,0)	40						
PMS-150AUULB(L)	Ultimate PU (with bearing)	350(357,0)	42							
200	PMS-200WBLB(L)	Rubber (with bearing)	250(255,0)	43	250	144×144	120×120(105×105)	11,5	56	156
	PMS-200AWLB(L)*	Abrasion Resistant Rubber (with bearing)	300(306,0)	45						
	PMS-200UWBLB(L)/INJ	PU (with bearing)	400(408,0)	42						
	PMS-200GUBLB(L)		350(357,0)	43						
	PMS-200AUULB(L)	Ultimate PU (with bearing)	400(408,0)	45						

\*Only AW model casters are suitable for towing with motor vehicle.

### Wheel Types



**WB** Wheel Hub: Steel Plate, Wheel Tread: Rubber (with bearing)  
**AW** Wheel Hub: Aluminum, Wheel Tread: Abrasion Resistant Rubber (with bearing)  
**UWBLB/INJ** Wheel Hub: Steel Plate, Wheel Tread: PU (with bearing)  
**GUB** Wheel Hub: Nylon, Wheel Tread: PU (with bearing)  
**AUU** Wheel Hub: Aluminum, Wheel Tread: Ultimate PU (with bearing)

# PMR Type $\phi$ 100 130 150 200

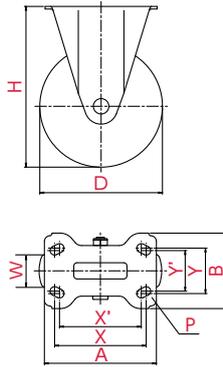
**Fixed**

**Plate Type**

<b>BZP (Brilliant Zinc Plating)</b>	<b>CP (Chromium Plating)</b>
Single Bearing	Double Bearing
Single Stopper	Double Stopper



PMR-150AW



**Mounting Method** **Plate Type**



**Usage**

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley\*
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**



The picture is a typical product image.

Order Example **PMR** - **150** **AW**  
Bracket Type Wheel Diameter Wheel Type

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
100	PMR-100WB	Rubber (with bearing)	120(122,4)	32	144	115×80	80×45	11
	PMR-100UWB/INJ	PU (with bearing)	180(183,6)					
	PMR-100GUB		160(163,2)					
	PMR-100AAU	Ultimate PU (with bearing)	250(255,0)					
130	PMR-130WB	Rubber (with bearing)	180(183,6)	40	177	137×93	100×56	11
	PMR-130UWB/INJ	PU (with bearing)	250(255,0)	35				
	PMR-130GUB		220(224,4)	40				
150	PMR-150WB	Rubber (with bearing)	200(204,0)	40	198	137×93	112×50(100×56)	11
	PMR-150AW*	Abrasion Resistant Rubber (with bearing)	250(255,0)	42				
	PMR-150UWB/INJ	PU (with bearing)	300(306,0)	38				
	PMR-150GUB		250(255,0)	40				
	PMR-150AAU	Ultimate PU (with bearing)	350(357,0)	42				
200	PMR-200WB	Rubber (with bearing)	250(255,0)	43	250	151×102	112×63	11,5
	PMR-200AW*	Abrasion Resistant Rubber (with bearing)	300(306,0)	45				
	PMR-200UWB/INJ	PU (with bearing)	400(408,0)	42				
	PMR-200GUB		350(357,0)	43				
	PMR-200AAU	Ultimate PU (with bearing)	400(408,0)	45				

\*Only AW model casters are suitable for towing with motor vehicle.

**Wheel Types**

<b>WB</b> Wheel Hub: Steel Plate Wheel Tread: Rubber (with bearing)	<b>AW</b> Wheel Hub: Aluminum Wheel Tread: Abrasion Resistant Rubber (with bearing)	<b>UWB/INJ</b> Wheel Hub: Steel Plate Wheel Tread: PU (with bearing)	<b>GUB</b> Wheel Hub: Nylon Wheel Tread: PU (with bearing)	<b>AAU</b> Wheel Hub: Aluminum Wheel Tread: Ultimate PU (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# PMR-LB[R] Type $\phi$ 130 150 200

**Fixed**

**Plate Type**

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

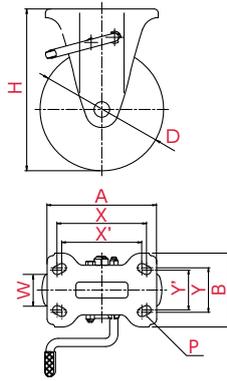
Double Bearing

Single Stopper

Double Stopper



PMR-150AWLB(R)



**Mounting Method** **Plate Type**



**Usage**

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley\*
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**

The picture is a typical product image.

Order Example: **PMR** - **150** **AW** **LB** **(R)**  
Bracket Type      Wheel Diameter      Wheel Type      Stopper      Lever Direction



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
130	PMR-130WBLB(R)	Rubber (with bearing)	180(183,6)	40	177	137×93	100×56	11
	PMR-130UWBLB(R)/INJ	PU (with bearing)	250(255,0)	35				
	PMR-130GUBLB(R)		220(224,4)	40				
150	PMR-150WBLB(R)	Rubber (with bearing)	200(204,0)	40	198	137×93	112×50(100×56)	11
	PMR-150AWLB(R)*	Abrasion Resistant Rubber (with bearing)	250(255,0)	42				
	PMR-150UWBLB(R)/INJ	PU (with bearing)	300(306,0)	38				
	PMR-150GUBLB(R)		250(255,0)	40				
	PMR-150AUULB(R)	Ultimate PU (with bearing)	350(357,0)	42				
200	PMR-200WBLB(R)	Rubber (with bearing)	250(255,0)	43	250	151×102	112×63	11,5
	PMR-200AWLB(R)*	Abrasion Resistant Rubber (with bearing)	300(306,0)	45				
	PMR-200UWBLB(R)/INJ	PU (with bearing)	400(408,0)	42				
	PMR-200GUBLB(R)		350(357,0)	43				
	PMR-200AUULB(R)	Ultimate PU (with bearing)	400(408,0)	45				

\*Only AW model casters are suitable for towing with motor vehicle.

**Wheel Types**

<b>WB</b> Wheel Hub: Steel Plate Wheel Tread: Rubber (with bearing)	<b>AW</b> Wheel Hub: Aluminum Wheel Tread: Abrasion Resistant Rubber (with bearing)	<b>UWB/INJ</b> Wheel Hub: Steel Plate Wheel Tread: PU (with bearing)	<b>GUB</b> Wheel Hub: Nylon Wheel Tread: PU (with bearing)	<b>AUU</b> Wheel Hub: Aluminum Wheel Tread: Ultimate PU (with bearing)

# PMR-LB[L] Type $\phi$ 130 150 200

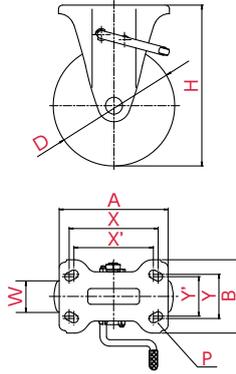
**Fixed**

**Plate Type**

BZP (Brilliant Zinc Plating)	CP (Chromium Plating)
Single Bearing	Double Bearing
Single Stopper	Double Stopper



PMR-150AWLB(L)



### Mounting Method **Plate Type**



### Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley\*
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**

The picture is a typical product image.

Order Example: **PMR** - **150** **AW** **LB** **(L)**  
Bracket Type      Wheel Diameter      Wheel Type      Stopper      Lever Direction



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
130	PMR-130WBLB(L)	Rubber (with bearing)	180(183,6)	40	177	137×93	100×56	11
	PMR-130UWBLB(L)/INJ	PU (with bearing)	250(255,0)	35				
	PMR-130GUBLB(L)		220(224,4)	40				
150	PMR-150WBLB(L)	Rubber (with bearing)	200(204,0)	40	198	137×93	112×50(100×56)	11
	PMR-150AWLB(L)*	Abrasion Resistant Rubber (with bearing)	250(255,0)	42				
	PMR-150UWBLB(L)/INJ	PU (with bearing)	300(306,0)	38				
	PMR-150GUBLB(L)		250(255,0)	40				
	PMR-150AUULB(L)	Ultimate PU (with bearing)	350(357,0)	42				
200	PMR-200WBLB(L)	Rubber (with bearing)	250(255,0)	43	250	151×102	112×63	11,5
	PMR-200AWLB(L)*	Abrasion Resistant Rubber (with bearing)	300(306,0)	45				
	PMR-200UWBLB(L)/INJ	PU (with bearing)	400(408,0)	42				
	PMR-200GUBLB(L)		350(357,0)	43				
	PMR-200AUULB(L)	Ultimate PU (with bearing)	400(408,0)	45				

\*Only AW model casters are suitable for towing with motor vehicle.

### Wheel Types

<b>WB</b> Wheel Hub: Steel Plate Wheel Tread: Rubber (with bearing)	<b>AW</b> Wheel Hub: Aluminum Wheel Tread: Abrasion Resistant Rubber (with bearing)	<b>UWB/INJ</b> Wheel Hub: Steel Plate Wheel Tread: PU (with bearing)	<b>GUB</b> Wheel Hub: Nylon Wheel Tread: PU (with bearing)	<b>AUU</b> Wheel Hub: Aluminum Wheel Tread: Ultimate PU (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# RJ2 Type $\phi$ 100 125 150

Swivel

Plate Type

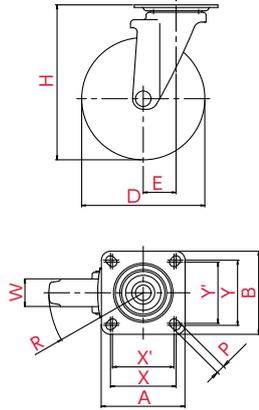
BZP (Brilliant Zinc Plating) CP (Chromium Plating)

Single Bearing Double Bearing

Single Stopper Double Stopper



RJ2-150NWR



Mounting Method Plate Type



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed



The picture is a typical product image.

Order Example **RJ2** - **150** **NWR**  
 Bracket Type Wheel Diameter Wheel Type

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
100	RJ2-100NRP	Rubber	120(122,4)	30	132	90×90	71×71(68×68)	11	34	85
	RJ2-100W	Rubber (with bearing)		32						
	RJ2-100N	Nylon								
	RJ2-100GU	PU (with bearing)								
125	RJ2-125W	Rubber (with bearing)	150(153,0)	38	168	102×102	80×80(75×75)	11	38	101
	RJ2-125NWR			34						
	RJ2-125N	Nylon		40						
	RJ2-125GU	PU (with bearing)								
150	RJ2-150W	Rubber (with bearing)	160(163,2)	40	190	102×102	80×80(75×75)	11	40	115
	RJ2-150NWR			34						
	RJ2-150N	Nylon (with bearing)		40						
	RJ2-150GU	PU (with bearing)								

Wheel Types



# RJ2-S Type $\phi$ 100 125 150

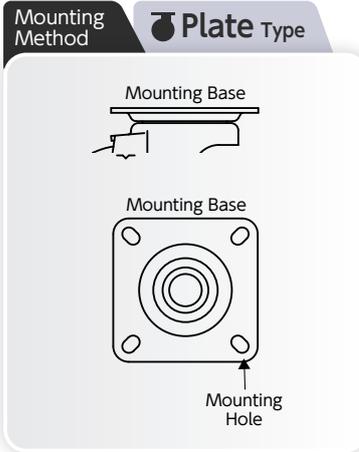
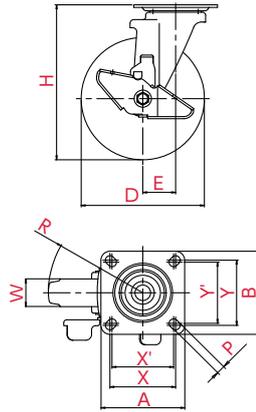
**Swivel**

**Plate Type**

BZP (Brilliant Zinc Plating)	CP (Chromium Plating)
Single Bearing	Double Bearing
Single Stopper	Double Stopper



RJ2-150NWRs



- Usage**
- Flat Trolley
  - Hand Trolley
  - Server Rack
  - Roll Box Pallet
  - Towing Trolley
  - Office Chair
  - Machinery and equipment
  - Copying Machine
  - Furniture
  - Display Rack
  - Refrigeration and cold storage showcase
  - Others

Use together with **Fixed**

The picture is a typical product image.

Order Example: **RJ2** | - | **150** | **NWR** | **S**  
 Bracket Type | Wheel Diameter | Wheel Type | Stopper



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
100	RJ2-100NRPS	Rubber	120(122,4)	30	132	90×90	71×71(68×68)	11	34	88
	RJ2-100WS	Rubber (with bearing)		32						
	RJ2-100NS	Nylon								
	RJ2-100GUS	PU (with bearing)								
125	RJ2-125WS	Rubber (with bearing)	150(153,0)	38	168	102×102	80×80(75×75)	11	38	104
	RJ2-125NWRs			34						
	RJ2-125NS	Nylon		40						
	RJ2-125GUS	PU (with bearing)								
150	RJ2-150WS	Rubber (with bearing)	160(163,2)	40	190	102×102	80×80(75×75)	11	40	115
	RJ2-150NWRs			34						
	RJ2-150NS	Nylon (with bearing)		40						
	RJ2-150GUS	PU (with bearing)								

**Wheel Types**



Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# K2 Type/SK Type $\phi$ 100 125 150

**Fixed**

**Plate Type**

BZP (Brilliant Zinc Plating) CP (Chromium Plating)

Single Bearing Double Bearing

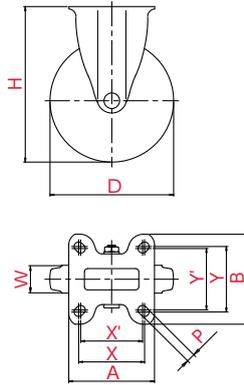
Single Stopper Double Stopper



WK2-150



WK2-150-P(P112x53)



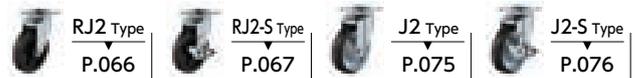
**Mounting Method** **Plate Type**



**Usage**

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**



The picture is a typical product image.

Order Example: **W** | **K2** | **-** | **150**  
Wheel Type | Bracket Type | Wheel Diameter

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
100	SK-100W*	Rubber (with bearing)	120(122,4)	32	132	110x80	90x50(80x45)	11
	SK-100N	Nylon						
	SK-100GU	PU (with bearing)						
125	WK2-125*	Rubber (with bearing)	150(153,0)	38	168	137x93	112x53(100x56)	11
	NWRK2-125	Nylon		34				
	NK2-125	Nylon		40				
	GUK2-125	PU (with bearing)						
150	WK2-150*	Rubber (with bearing)	180(183,6)	40	190	104x110	80x80(75x75)	11
	NWRK2-150	Nylon (with bearing)	160(163,2)	34				
	NK2-150	Nylon (with bearing)		40				
	GUK2-150	PU (with bearing)	180(183,6)	40		137x93	112x53(100x56)	
	WK2-150(P112x53)*	Rubber (with bearing)		34				
	NWRK2-150(P112x53)	Nylon (with bearing)	160(163,2)	40				
	NK2-150(P112x53)	Nylon (with bearing)	160(163,2)	40				
GUK2-150(P112x53)	PU (with bearing)	180(183,6)	40					

Rubber (with bearing) is also available in gray color.

**Wheel Types**

<b>W</b> Wheel Hub: Steel Plate Wheel Tread: Rubber (with bearing)	<b>NWR</b> Wheel Hub: Nylon Wheel Tread: Rubber (with bearing)	<b>N</b> Wheel Hub: Nylon Wheel Tread: Nylon	<b>N</b> Wheel Hub: Nylon Wheel Tread: Nylon (with bearing)	<b>GU</b> Wheel Hub: Nylon Wheel Tread: PU (with bearing)

# SKY-2S Type $\phi$ 150 200

Swivel

Plate Type

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

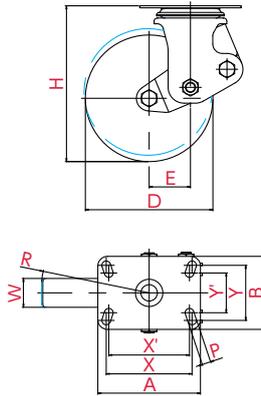
Double Bearing

Single Stopper

Double Stopper



SKY-2S200AUU-A-1



### Mounting Method Plate Type



### Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley**
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed

The picture is a typical product image.

Order Example: **SKY-2S** | **200** | **AUU** | - | **A** | - | **1**

Bracket Type | Wheel Diameter | Wheel Type | Mounting Dimensions | Proper Load



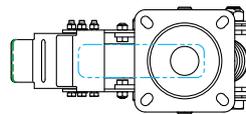
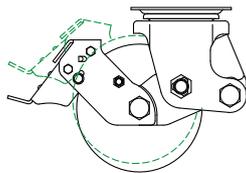
Wheel Diameter D(mm)	Product Number	Wheel Material	Proper Load [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	A			B			Eccentricity E(mm)	Turning Radius R(mm)	
						Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)			
150	SKY-2S150AW	★ Abrasion Resistant Rubber (with bearing)	-1	100(102,0)	42	193 [~183]	159×114	133×86 (125×62)	13,5	120×120	94×94 (87×87)	11	50 [~54]	126 [~131]
			-2	200(204,0)										
			-4	400(408,0)										
	SKY-2S150WF(AR)	★	-1	100(102,0)	40									
			-2	200(204,0)										
			-4	400(408,0)										
	SKY-2S150UWF/INJ	PU (with bearing)	-1	100(102,0)	38									
			-2	200(204,0)										
200	SKY-2S200AW	★ Abrasion Resistant Rubber (with bearing)	-1	100(102,0)	45	246 [~236]	159×114	133×86 (125×62)	13,5	144×144	120×120 (105×105)	11,5	65 [~67]	166 [~168]
			-2	200(204,0)										
			-4	400(408,0)										
	SKY-2S200WF(AR)	★	-1	100(102,0)	43									
			-2	200(204,0)										
			-4	400(408,0)										
	SKY-2S200UWF/INJ	PU (with bearing)	-1	100(102,0)	42									
			-2	200(204,0)										
SKY-2S200AUU	★ Ultimate PU (with bearing)	-1	100(102,0)	45										
		-2	200(204,0)											
		-4	400(408,0)											

The values in [ ] represent the values when the load capacity is reached.

NEW

## SKY-2S Brake

(★ Marked : Brake is only available for proper load of 100daN and 200daN.)



Contact us for more information



### Wheel Types



**AW**  
Wheel Hub: Aluminum  
Wheel Tread: Abrasion Resistant Rubber (with bearing)



**WF(AR)**  
Wheel Hub: Steel Plate  
Wheel Tread: Abrasion Resistant Rubber (with bearing)



**UWF/INJ**  
Wheel Hub: Steel Plate  
Wheel Tread: PU (with bearing)



**AUU**  
Wheel Hub: Aluminum  
Wheel Tread: Ultimate PU (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# SKY-2R Type $\phi$ 150 200

**Fixed**

**Plate Type**

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

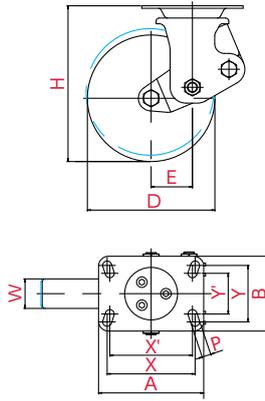
Double Bearing

Single Stopper

Double Stopper



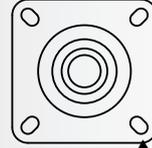
SKY-2R200AUU-A-1



**Mounting Method** **Plate Type**



Mounting Base



Mounting Hole

**Usage**

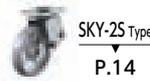
- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley**
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**

The picture is a typical product image.

Order Example: **SKY-2R** | **200** | **AUU** | **-** | **A** | **-** | **1**

Bracket Type | Wheel Diameter | Wheel Type | Mounting Dimensions | Proper Load



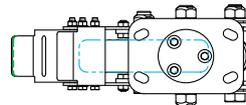
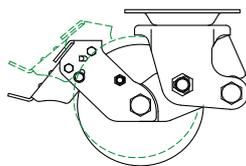
Wheel Diameter D(mm)	Product Number	Wheel Material	Proper Load [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	A			B			Eccentricity E(mm)	
						Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)		
150	SKY-2R150AW ★	Abrasion Resistant Rubber (with bearing)	-1	100(102,0)	42	193 [~183]	159 x 114	133 x 86 (125 x 62)	13,5	137 x 93	112 x 50 (100 x 56)	11	50 [~54]
			-2	200(204,0)									
			-4	400(408,0)									
	SKY-2R150WF(AR) ★	PU (with bearing)	-1	100(102,0)	40								
			-2	200(204,0)									
	SKY-2R150UWF/INJ	PU (with bearing)	-1	100(102,0)	38								
			-2	200(204,0)									
	SKY-2R150AUU ★	Ultimate PU (with bearing)	-1	100(102,0)	42								
-2			200(204,0)										
-4			400(408,0)										
-1			100(102,0)	45									
SKY-2R200AW ★	Abrasion Resistant Rubber (with bearing)	-2	200(204,0)										
		-4	400(408,0)										
		-1	100(102,0)		246 [~236]	159 x 114	133 x 86 (125 x 62)	13,5	180 x 110	112 x 63 (140 x 50)	11,5	65 [~67]	
SKY-2R200WF(AR) ★	PU (with bearing)	-2	200(204,0)										
		-1	100(102,0)										
SKY-2R200UWF/INJ	PU (with bearing)	-2	200(204,0)	42									
		-1	100(102,0)										
SKY-2R200AUU ★	Ultimate PU (with bearing)	-2	200(204,0)	45									
		-4	400(408,0)										

The values in [ ] represent the values when the load capacity is reached.

**NEW**

## SKY-2R Brake

(★ Marked : Brake is only available for proper load of 100daN and 200daN.)



Contact us for more information



**Wheel Types**



**AW**  
Wheel Hub: Aluminum  
Wheel Tread: Abrasion Resistant Rubber (with bearing)



**WF(AR)**  
Wheel Hub: Steel Plate  
Wheel Tread: Abrasion Resistant Rubber (with bearing)



**UWF/INJ**  
Wheel Hub: Steel Plate  
Wheel Tread: PU (with bearing)



**AUU**  
Wheel Hub: Aluminum  
Wheel Tread: Ultimate PU (with bearing)

# APT Type

## YUEI LOCK Plate Type

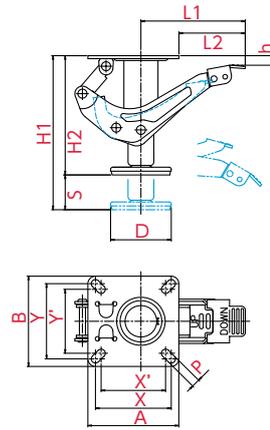
BZP (Brilliant Zinc Plating)	CP (Chromium Plating)
Single Bearing	Double Bearing
Single Stopper	Double Stopper



APT100LOCK



APT200LOCK



### Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

The picture is a typical product image.

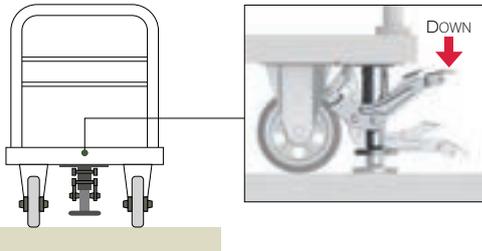
Order Example **APT** | **100** | **LOCK**  
 Bracket Type | Size | Bracket Type

Pad Adjuster Diameter D(mm)	Product Number	Proper Mounting Height (mm)	Height (Locking) H1(mm)	Height (Unlocking) H2(mm)	Stroke S(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Pedal Length L1(mm)	Pedal Length from Mounting Base L2(mm)	Pedal Vertical Gap from Mounting Base h(mm)
80	APT100LOCK	144	148	121	27	120 x 120	100 x 100 (85 x 85)	11	136	86	14
	APT150LOCK	198	204	159	45				138	88	13
	APT200LOCK	250	256	207	49				135	85	57

## YUEI LOCK

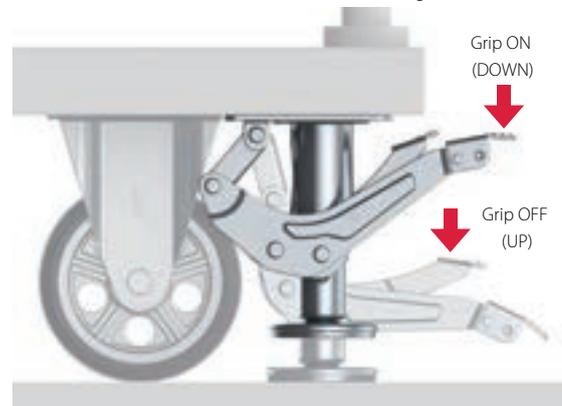
An add-on product that serve as a lock that help secure the trolley with a simple touch.

### Secure the trolley with a simple touch.



### How to use:

- Step on the (DOWN) pedal  
The rubber surface will grip to the ground, securing the trolley.
- Step on the (UP) pedal  
This will ungrasp the rubber surface, allowing the trolley to move again.



### Checklist when using YUEI LOCK

- Maintain the standard installation height when use.  
(For rubber wheels, the installation height may vary depending on the load.)
- This means to be used as a trolley lock. This product can not be used as an adjuster to elevate the trolley (The weight will still be on the wheels)
- Ensure the pedal protrudes outward
- Do not use it on uneven surfaces. This product is only meant to be used on flat surfaces.
- Do not use the product on the operating floor or stairs.
- For a trolley that has securely gripped to the ground, do not apply force from the side.
- Do not put the trolley that has securely clipped to the ground onto a truck or similar vehicle for transportation.
- When secured between 2 fixed wheel casters, if the other 2 casters are of swivel type, the trolley may unintentionally move, which can be dangerous.

# UHG Type $\phi$ 50 65 75 80 100

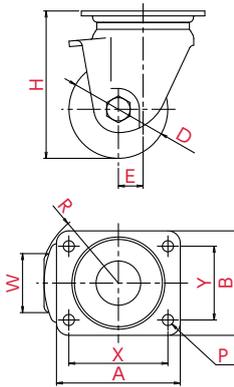
Swivel

Plate Type

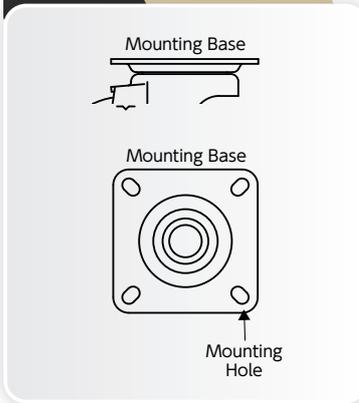
BZP (Brilliant Zinc Plating)	CP (Chromium Plating)
Single Bearing	Double Bearing
Single Stopper	Double Stopper



UHG-75GFB



Mounting Method **Plate Type**



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Fixed**

The picture is a typical product image.

Order Example **UHG** - **75** **GFB**  
 Bracket Type Wheel Diameter Wheel Type



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
50	UHG-50GFB	Reinforce Nylon (with bearing)	300(306,0)	38	79	84×84	64×64	8,5	12	49
	UHG-50MC <sup>※1</sup>	Monomer-Cast Nylon (with bearing) (blue)	400(408,0)							
	UHG-50MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	UHG-50PB	Phenolic (with bearing)								
65	UHG-65GFB	Reinforce Nylon (with bearing)	400(408,0)	48	97	100×100	78×78	10,5	14	54
	UHG-65MC <sup>※1</sup>	Monomer-Cast Nylon (MC) (with bearing) (blue)	600(612,0)							
	UHG-65MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	UHG-65PB	Phenolic (with bearing)								
75	UHG-75GFB	Reinforce Nylon (with bearing)	500(510,0)	48	107	100×100	78×78	10,5	14	54
	UHG-75MC <sup>※1</sup>	Monomer-Cast Nylon (with bearing) (blue)	700(714,0)							
	UHG-75MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	UHG-75PB	Phenolic (with bearing)								
80	UHG-80MC <sup>※2</sup>	Monomer-Cast Nylon (with bearing) (dark green)	800(816,0)	48	120	100×85	80×60	9,0	20	63
100	UHG-100MC <sup>※2</sup>	Monomer-Cast Nylon (with bearing) (dark green)	800(816,0)	48	140	150×110	121×59	13,0	20	72

•Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)\*

**Wheel Types**

- GFB**  
Wheel Hub: Reinforce Nylon  
Wheel Tread: Reinforce Nylon (with bearing)
- MC**<sup>※1</sup>  
Wheel Hub: Monomer-Cast Nylon  
Wheel Tread: Monomer-Cast Nylon (with bearing) (blue)
- MC**<sup>※2</sup>  
Wheel Hub: Monomer-Cast Nylon  
Wheel Tread: Monomer-Cast Nylon (with bearing) (dark green)
- MCE**  
Wheel Hub: Conductive Monomer-Cast Nylon  
Wheel Tread: Conductive Monomer-Cast Nylon (with bearing)
- PB**  
Wheel Hub: Phenolic  
Wheel Tread: Phenolic (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# UHR Type

**Fixed**

**Plate Type**

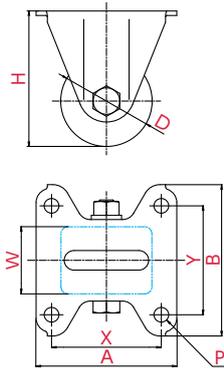
BZP (Brilliant Zinc Plating) CP (Chromium Plating)

Single Bearing Double Bearing  
Single Stopper Double Stopper

φ 50 65 75



UHR-75PB



Mounting Method **Plate Type**



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**

The picture is a typical product image.

Order Example **UHR** - **75** **PB**  
Bracket Type Wheel Diameter Wheel Type



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
50	UHR-50GFB	Reinforce Nylon (with bearing)	300(306,0)	38	79	90×85	64×64	8,5
	UHR-50MC	Monomer-Cast Nylon (with bearing)	400(408,0)					
	UHR-50MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	UHR-50PB	Phenolic (with bearing)						
65	UHR-65GFB	Reinforce Nylon (with bearing)	400(408,0)	48	97	108×100	78×78	10,5
	UHR-65MC	Monomer-Cast Nylon (MC) (with bearing)	600(612,0)					
	UHR-65MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	UHR-65PB	Phenolic (with bearing)						
75	UHR-75GFB	Reinforce Nylon (with bearing)	500(510,0)	48	107	108×100	78×78	10,5
	UHR-75MC	Monomer-Cast Nylon (with bearing)	700(714,0)					
	UHR-75MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	UHR-75PB	Phenolic (with bearing)						

• Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)\*

**Wheel Types**



**GFB**  
 Wheel Hub: Reinforce Nylon  
 Wheel Tread: Reinforce Nylon (with bearing)



**MC**  
 Wheel Hub: Monomer-Cast Nylon  
 Wheel Tread: Monomer-Cast Nylon (with bearing)



**MCE**  
 Wheel Hub: Conductive Monomer-Cast Nylon  
 Wheel Tread: Conductive Monomer-Cast Nylon (with bearing)



**PB**  
 Wheel Hub: Phenolic  
 Wheel Tread: Phenolic (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# HG Type $\phi$ 50 65 75

Swivel

Plate Type

BZP (Brilliant Zinc Plating) CP (Chromium Plating)

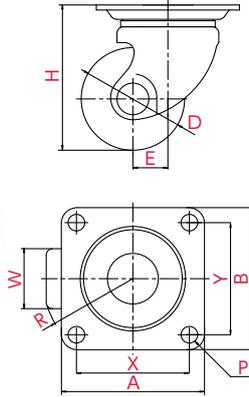
Single Bearing Double Bearing  
Single Stopper Double Stopper



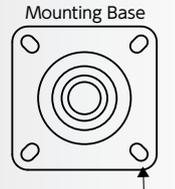
HG-50GNB



HG-75GNB



Mounting Method Plate Type



Mounting Hole

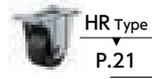
Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed

The picture is a typical product image.

Order Example **HG** - **50** **GNB**  
Bracket Type Wheel Diameter Wheel Type



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
50	HG-50GNB	Reinforce Nylon	160(163,2)	28	68	64×64	50×50	6,5	25	51
	HG-50GNB(P54×36)					70×54	54×36			
	HG-50MC	Monomer-Cast Nylon		25		64×64	50×50			
	HG-50MCE	• Conductive Monomer-Cast Nylon (with bearing)								
65	HG-65GNB	Reinforce Nylon (with bearing)	300(306,0)	38	92	90×90	71×71	10,5	22	57
	HG-65MC	Monomer-Cast Nylon (MC) (with bearing)								
	HG-65MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	HG-65AU	PU (with bearing)								
	HG-65PB	Phenolic (with bearing)								
75	HG-75GNB	Reinforce Nylon (with bearing)	320(326,4)	38	106	90×90	71×71	10,5	22	61
	HG-75MC	Monomer-Cast Nylon (with bearing)								
	HG-75MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	HG-75AU	PU (with bearing)								
	HG-75PB	Phenolic (with bearing)								

• Mark  
The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)\*



# HG-S Type $\phi$ 50 65 75

Swivel

Plate Type

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

Double Bearing

Single Stopper

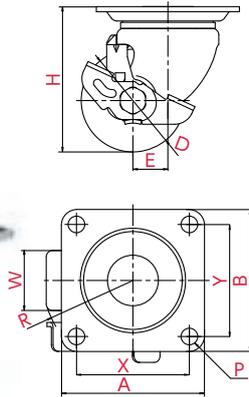
Double Stopper



HG-50GNBS



HG-75GNBS



Mounting Method Plate Type



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed

The picture is a typical product image.

Order Example: **HG** | **-** | **50** | **GNB** | **S**  
 Bracket Type | Wheel Diameter | Wheel Type | Stopper



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
50	HG-50GNBS	Reinforce Nylon	160(163,2)	28	68	64 x 64	50 x 50	6,5	25	65
	HG-50GNBS(P54 x 36)					70 x 54	54 x 36			
	HG-50MCS	Monomer-Cast Nylon		25		64 x 64	50 x 50			
	HG-50MCES	• Conductive Monomer-Cast Nylon (with bearing)								
65	HG-65GNBS	Reinforce Nylon (with bearing)	300(306,0)	38	92	90 x 90	71 x 71	10,5	22	67
	HG-65MCS	Monomer-Cast Nylon (MC) (with bearing)								
	HG-65MCES	• Conductive Monomer-Cast Nylon (with bearing)								
	HG-65PBS	Phenolic (with bearing)								
75	HG-75GNBS	Reinforce Nylon (with bearing)	320(326,4)	38	106	90 x 90	71 x 71	10,5	22	67
	HG-75MCS	Monomer-Cast Nylon (with bearing)								
	HG-75MCES	• Conductive Monomer-Cast Nylon (with bearing)								
	HG-75PBS	Phenolic (with bearing)								

• Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)\*

Wheel Types



Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# HR Type $\phi$ 50 65 75

**Fixed**

**Plate Type**

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

Double Bearing

Single Stopper

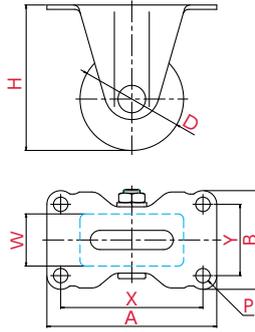
Double Stopper



HR-50GNB



HR-75GNB



**Mounting Method** **Plate Type**



**Usage**

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**

The picture is a typical product image.

Order Example: **HR** - **50** **GNB**  
Bracket Type      Wheel Diameter      Wheel Type



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
50	HR-50GNB	Reinforce Nylon	160(163,2)	28	68	80×50	66×36	6,5
	HR-50MC	Monomer-Cast Nylon		25				
	HR-50MCE	• Conductive Monomer-Cast Nylon (with bearing)						
65	HR-65GNB	Reinforce Nylon (with bearing)	300(306,0)	38	92	111×67	91×47	10,5
	HR-65MC	Monomer-Cast Nylon (MC) (with bearing)						
	HR-65MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	HR-65AU	PU (with bearing)						
	HR-65PB	Phenolic (with bearing)						
75	HR-75GNB	Reinforce Nylon (with bearing)	320(326,4)	38	106	123×72	103×52	10,5
	HR-75MC	Monomer-Cast Nylon (with bearing)						
	HR-75MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	HR-75AU	PU (with bearing)						
	HR-75PB	Phenolic (with bearing)						

**• Mark**  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)

**Wheel Types**

<b>GNB</b> Wheel Hub: Reinforce Nylon Wheel Tread: Reinforce Nylon	<b>GNB</b> Wheel Hub: Reinforce Nylon Wheel Tread: Reinforce Nylon (with bearing)	<b>MC</b> Wheel Hub: Monomer-Cast Nylon Wheel Tread: Monomer-Cast Nylon	<b>MC</b> Wheel Hub: Monomer-Cast Nylon Wheel Tread: Monomer-Cast Nylon (with bearing)	<b>MCE</b> Wheel Hub: Conductive Monomer-Cast Nylon Wheel Tread: Conductive Monomer-Cast Nylon	<b>MCE</b> Wheel Hub: Conductive Monomer-Cast Nylon Wheel Tread: Conductive Monomer-Cast Nylon (with bearing)	<b>AU</b> Wheel Hub: Aluminium Wheel Tread: PU (with bearing)	<b>PB</b> Wheel Hub: Phenolic Wheel Tread: Phenolic (with bearing)

# HSG Type $\phi$ 50 65 75

Swivel

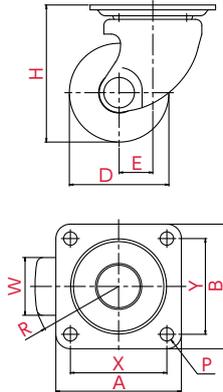
Plate Type

BZP (Brilliant Zinc Plating) CP (Chromium Plating)

Single Bearing Double Bearing  
Single Stopper Double Stopper



HSG-75GNB



Mounting Method Plate Type



Mounting Hole

Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed

The picture is a typical product image.

Order Example **HSG** - **75** **GNB**  
Bracket Type Wheel Diameter Wheel Type



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
50	HSG-50GFB	Reinforce Nylon (with bearing)	300(306,0)	38	79	82×82	63×63	8,8	22	49
	HSG-50MC	Monomer-Cast Nylon (MC) (with bearing)								
	HSG-50MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	HSG-50AU	PU (with bearing)								
	HSG-50PB	Phenolic (with bearing)								
65	HSG-65GNB	Reinforce Nylon (with bearing)	300(306,0)	38	90	82×82	63×63	8,8	22	57
	HSG-65MC	Monomer-Cast Nylon (with bearing)								
	HSG-65MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	HSG-65AU	PU (with bearing)								
	HSG-65PB	Phenolic (with bearing)								
75	HSG-75GNB	Reinforce Nylon (with bearing)	300(306,0)	38	100	82×82	63×63	8,8	22	61
	HSG-75MC	Monomer-Cast Nylon (MC) (with bearing)								
	HSG-75MCE	• Conductive Monomer-Cast Nylon (with bearing)								
	HSG-75AU	PU (with bearing)								
	HSG-75PB	Phenolic (with bearing)								

•Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)

Wheel Types



Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# HSG-S Type $\phi$ 50 65 75

Swivel

Plate Type

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

Double Bearing

Single Stopper

Double Stopper

Industrial Low Floor Caster

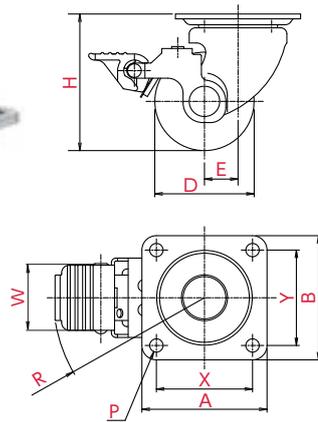
Industrial Caster

Shock Absorbing Caster

Others



HSG-75GNBS



Mounting Method Plate Type



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with Fixed

The picture is a typical product image.

Order Example: **HSG** | **-** | **75** | **GNB** | **S**  
 Bracket Type | Wheel Diameter | Wheel Type | Stopper

HSR Type P.24

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
50	HSG-50GFBS	Reinforce Nylon (with bearing)	300(306,0)	38	79	82×82	63×63	8,8	22	91
	HSG-50MCS	Monomer-Cast Nylon (MC) (with bearing)								
	HSG-50MCES	• Conductive Monomer-Cast Nylon (with bearing)								
	HSG-50AUS	PU (with bearing)								
	HSG-50PBS	Phenolic (with bearing)								
65	HSG-65GNBS	Reinforce Nylon (with bearing)	300(306,0)	38	90	82×82	63×63	8,8	22	99
	HSG-65MCS	Monomer-Cast Nylon (with bearing)								
	HSG-65MCES	• Conductive Monomer-Cast Nylon (with bearing)								
	HSG-65AUS	PU (with bearing)								
	HSG-65PBS	Phenolic (with bearing)								
75	HSG-75GNBS	Reinforce Nylon (with bearing)	300(306,0)	38	100	82×82	63×63	8,8	22	103
	HSG-75MCS	Monomer-Cast Nylon (MC) (with bearing)								
	HSG-75MCES	• Conductive Monomer-Cast Nylon (with bearing)								
	HSG-75AUS	PU (with bearing)								
	HSG-75PBS	Phenolic (with bearing)								

•Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)

Wheel Types



# HSR Type $\phi$ 50 65 75

**Fixed**

**Plate Type**

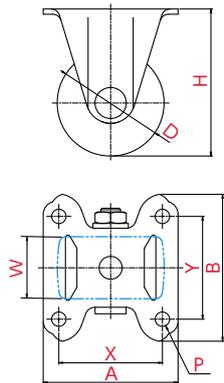
**BZP (Brilliant Zinc Plating)** **CP (Chromium Plating)**

Single Bearing Double Bearing

Single Stopper Double Stopper



HSR-75GNB



**Mounting Method** **Plate Type**



**Usage**

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

Use together with **Swivel**

The picture is a typical product image.

Order Example **HSR** - **75** **GNB**  
Bracket Type Wheel Diameter Wheel Type



Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)
50	HSR-50GFB	Reinforce Nylon (with bearing)	300(306,0)	38	79	82×90	63×63	8,8
	HSR-50MC	Monomer-Cast Nylon (MC) (with bearing)						
	HSR-50MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	HSR-50AU	PU (with bearing)						
	HSR-50PB	Phenolic (with bearing)						
65	HSR-65GNB	Reinforce Nylon (with bearing)	300(306,0)	38	90	82×90	63×63	8,8
	HSR-65MC	Monomer-Cast Nylon (MC) (with bearing)						
	HSR-65MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	HSR-65AU	PU (with bearing)						
	HSR-65PB	Phenolic (with bearing)						
75	HSR-75GNB	Reinforce Nylon (with bearing)	300(306,0)	38	100	82×90	63×63	8,8
	HSR-75MC	Monomer-Cast Nylon (MC) (with bearing)						
	HSR-75MCE	• Conductive Monomer-Cast Nylon (with bearing)						
	HSR-75AU	PU (with bearing)						
	HSR-75PB	Phenolic (with bearing)						

**•Mark**  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)

**Wheel Types**



Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# HG-AF Type $\phi$ 65 75

Swivel

Plate Type

BZP (Brilliant Zinc Plating)

CP (Chromium Plating)

Single Bearing

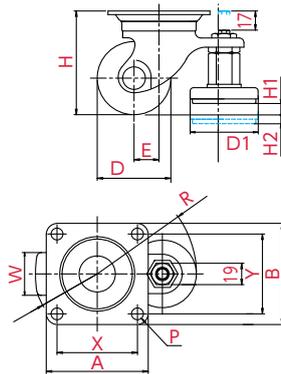
Double Bearing

Single Stopper

Double Stopper



HG-75GNB-AF



Mounting Method **Plate Type**



Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

The picture is a typical product image.

Order Example: **HG** | **-** | **75** | **GNB** | **-** | **AF**  
 Bracket Type | Wheel Diameter | Wheel Type | Adjuster

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kg <sub>f</sub> )]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)	Adjuster outer diameter D1(mm)	Adjust Amount H1/H2(mm)
65	HG-65GNB-AF	Reinforce Nylon (with bearing)	300(306,0)	38	92	90×90	71×71	10,5	22	88	60	10/8
	HG-65MC-AF	Monomer-Cast Nylon (MC) (with bearing)										
	HG-65MCE-AF	• Conductive Monomer-Cast Nylon (with bearing)										
	HG-65AU-AF	PU (with bearing)										
	HG-65PB-AF	Phenolic (with bearing)										
75	HG-75GNB-AF	Reinforce Nylon (with bearing)	320(326,4)	38	106	90×90	71×71	10,5	22	88	60	15/10
	HG-75MC-AF	Monomer-Cast Nylon (MC) (with bearing)										
	HG-75MCE-AF	• Conductive Monomer-Cast Nylon (with bearing)										
	HG-75AU-AF	PU (with bearing)										
	HG-75PB-AF	Phenolic (with bearing)										

• Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of 10<sup>5</sup> Ω. (These are values measured at YUEI and are not standard, verified values.)

Wheel Types

<b>GNB</b> Wheel Hub: Reinforce Nylon Wheel Tread: Reinforce Nylon (with bearing)	<b>MC</b> Wheel Hub: Monomer-Cast Nylon Wheel Tread: Monomer-Cast Nylon (with bearing)	<b>MCE</b> Wheel Hub: Conductive Monomer-Cast Nylon Wheel Tread: Conductive Monomer-Cast Nylon (with bearing)	<b>AU</b> Wheel Hub: Aluminum Wheel Tread: PU (with bearing)	<b>PB</b> Wheel Hub: Phenolic Wheel Tread: Phenolic (with bearing)

# AF Type $\phi$ 50 65 75 100

● Swivel

☑ Plate Type

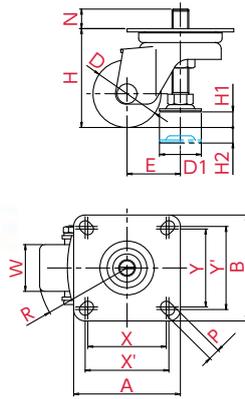
BZP (Brilliant Zinc Plating)	CP (Chromium Plating)
Single Bearing	Double Bearing
Single Stopper	Double Stopper



AF-50



AF-100



### Mounting Method Plate Type



### Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

The picture is a typical product image.

Order Example **AF** - **100**  
 Bracket Type Wheel Diameter

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)	Bolt Length N(mm)	Adjuster outer diameter D1(mm)	Adjust Amount H1/H2(mm)
50	AF-50	Reinforce Nylon (with bearing)	250(255,0)	45	74	102×102	80×80(75×75)	11	46	73	19,6	40	15/15
65	AF-65	Reinforce Nylon (with bearing)	250(255,0)	45	95	102×102	80×80(75×75)	11	51	84	18,8	40	15/15
75	AF-75	Monomer-Cast Nylon (MC) (with bearing)	300(306,0)	45	120	140×140	115×115(105×105)	11,5	56	95	—	40	15/15
100	AF-100	Monomer-Cast Nylon (MC) (with bearing)	300(306,0)	45	145	140×140	115×115(105×105)	11,5	65	116	—	40	15/15

### Wheel Types



**NB**  
 Wheel Hub: Reinforce Nylon  
 Wheel Tread: Reinforce Nylon (with bearing)



**MC**  
 Wheel Hub: Monomer-Cast Nylon  
 Wheel Tread: Monomer-Cast Nylon (with bearing)

Industrial Low Floor Caster

Industrial Caster

Shock Absorbing Caster

Others

# SKY-S Type $\phi$ 100 125

● Swivel

☑ Plate Type

BZP (Brilliant Zinc Plating)

Stainless

Single Bearing

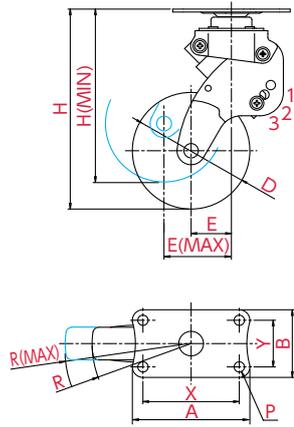
Radial Bearing

Single Stopper

Double Stopper



SKY-S125SUE-1



### Mounting Method Plate Type



### Usage

- Flat Trolley
- Hand Trolley
- Server Rack
- Roll Box Pallet
- Towing Trolley
- Office Chair
- Machinery and equipment
- Copying Machine
- Furniture
- Display Rack
- Refrigeration and cold storage showcase
- Others

The picture is a typical product image.

Order Example **SKY-S** | **125** | **SUE** | - | **1**  
 Bracket Type | Wheel Diameter | Wheel Type | Proper Load

Wheel Diameter D(mm)	Product Number	Wheel Material	Load Capacity [daN(kgf)]	Wheel Width W(mm)	Mounting Height H(mm)	Mounting Base A x B(mm)	Mounting Dimensions X x Y (X' x Y')(mm)	Hole Diameter P(mm)	Eccentricity E(mm)	Turning Radius R(mm)
100	SKY-S100SUE-1	● Anti-static PU (with bearing)	10(10,2)	28	171[~148]	100×58	82×40	8,8	34[~57]	84[~107]
	SKY-S100SUE-2		20(20,4)		171[~154]				34[~53]	84[~103]
	SKY-S100SUE-3		30(30,6)		171[~158]				34[~50]	84[~100]
125	SKY-S125SUE-1	● Anti-static PU (with bearing)	10(10,2)	32	193[~167]	100×58	82×40	8,8	41[~66]	104[~129]
	SKY-S125SUE-2		20(20,4)		193[~173]				41[~61]	104[~124]
	SKY-S125SUE-3		30(30,6)		193[~177]				41[~58]	104[~121]

The values in [ ] represent the values when the load capacity is reached.

● Mark  
 The electrical resistance of Conductive Monomer-Cast Nylon is a maximum of  $10^5 \Omega$ . (These are values measured at YUEI and are not standard, verified values.)\*

**Wheel Types**

**SUE**  
 Wheel Hub: Nylon  
 Wheel Tread: Anti-static PU (with bearing)

# Specialty of the wheel.

## Showcasing the wheel types

### A quick overview of each wheel material

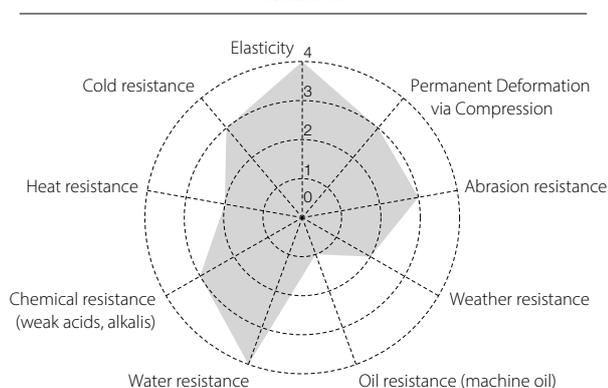
⊙: Excellence ○: Good △: Average ✕: Not good

	Rubber	Nylon	PU	Elastomer	Phenolic	Monomer-Cast Nylon (MC)
Elasticity	⊙	✕	○	○	✕	✕
Permanent Deformation via Compression	○	⊙	○	△	⊙	⊙
Abrasion resistance	○	⊙	⊙	△	○	⊙
Weather resistance	△	⊙	○	⊙	⊙	⊙
Oil resistance (machine oil)	✕	⊙	⊙	✕	⊙	⊙
Gasoline resistance	✕	⊙	⊙	✕	⊙	⊙
Water resistance	⊙	○	△	⊙	○	○
Chemical resistance (weak acids, alkalis)	○	⊙	✕	⊙	△	⊙
Heat resistance (°C)	70	70	70	70	120	120
Cold resistance (°C)	-30	-20	-30	-30	-40	-40

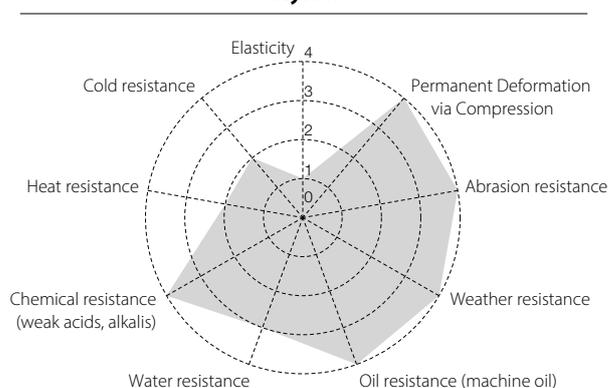
※These are the special properties of each material. The product will be impacted by the used condition, the environment where it is used, etc... Please refer to these properties when picking or judging the material.

※PU refers to the physical properties of Thermoplastic PU (TPU).

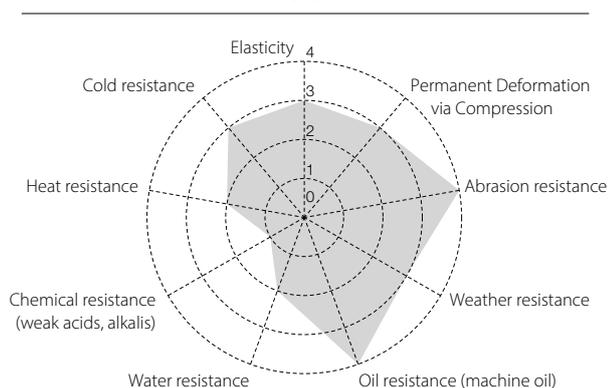
#### Rubber



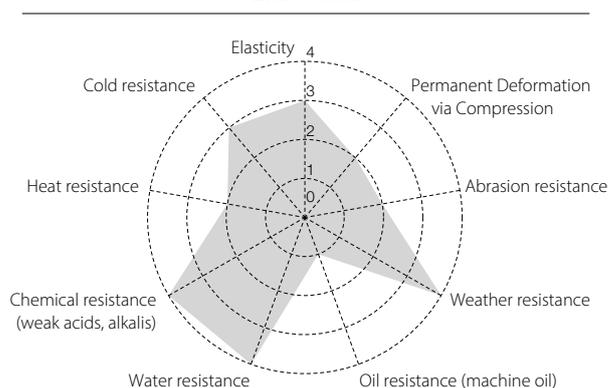
#### Nylon



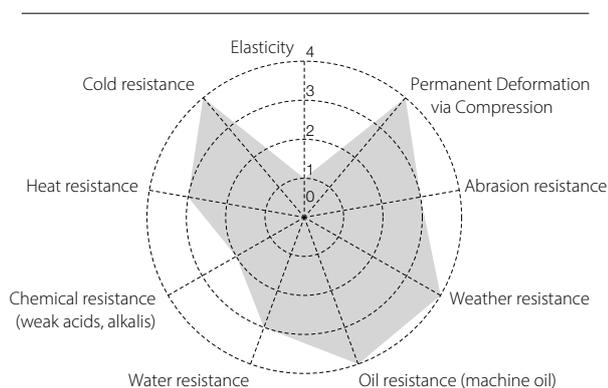
#### PU



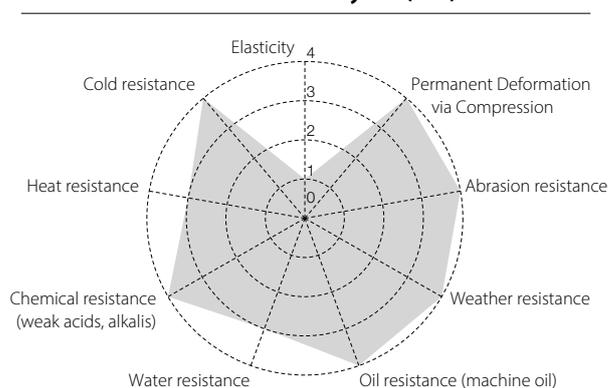
#### Elastomer



#### Phenolic



#### Monomer-Cast Nylon (MC)

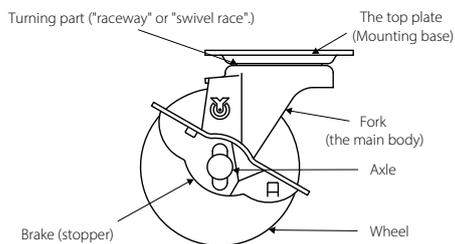


## Terminology and structure of the components

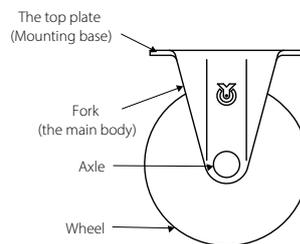
### The structure of casters and the terminology of its components

Caster is installed on various devices and objects for transportation purposes.

**Swivel caster** Caster wheel that includes a turning function.



**Fixed Wheel Caster** Caster with no spinning function (only the wheel turn)



## Explaining the product testing process

Lever-type running performance test



Overall tensile and compression test



Linear motion running test



Turning starting force test



Falling weight impact test



Turnability test



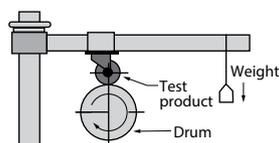
### Our testing standards

YUEI's caster use the testing method based on JIS standards (Japanese Industrial Standards) rather than the GB standards (Guojia Biaozhun - national standards of the People's Republic of China)

(Example) Comparing the  $\phi 100\text{mm}$  caster

Testing metric	Internal standards based on JIS standards	GB standards
Rolling distance	10 km (6.21 miles)	1.5 km (0.93 miles)

Test example



An allowable weight is applied to the caster while it rolls at the constant speed and distance on a drum with protrusion. We then check whether the caster shows any sign of deformation.

# Note regarding Caster

## Do not user caster in the following way

### Use cases that can damage the caster



**Be sure to transport item within the recommended weight load**  
Transporting heavy excessively heavy load will affect the functionality of the caster



**Do not drop, and avoid impact with using the wheel.**  
May damage or shorten the lifespan of casters.



**Do not force the trolley to move when the brake is still engaged.**  
The brake can be damaged in the process



**For Fixed Wheel caster, do not apply too much force sideways.**  
You can potentially misshape the metal or even shorten the lifespan of the caster.



**Do not hammer the brake or step too forcefully on the brake.**  
You can potentially damage the brake



**Do not use the caster on surfaces that are too rough, uneven or with many bumps and hollows.**  
You can potentially shorten the lifespan of the caster.



**Avoid using caster in environments that are too hot, too cold, or of too high humidity.**  
Lead to damage or reduce the functionality of the caster



**When using screw in type caster, be sure to properly tighten the nut on the neck of the caster using a wench.**



**Not meant to be used for objects towed by motor vehicles.**  
Can cause dangerous accidents (Except towing compatible casters)



**Do not use the brake on uneven surfaces.**  
The trolley/vehicle can unexpectedly move. Not only does this is extremely dangerous, you may also lower the functionality of the caster in the long run.



**Do not stack items unevenly (ensure good weight distribution).**  
This is extremely dangerous because it can affect the balance of the trolley, causing it to fall over.



**Do not climb on the trolley or similar vehicles.**  
This is extremely dangerous and can cause serious injury and even death

### Dangerous act that can result in serious injury and even death

### The main use of caster

Caster is mainly used by humans to transport heavy items when necessary. When picking a product, keep in mind the many caster use cases both indoor and outdoor in order to pick the suitable product for your need. Be sure to also check and install the product correctly, by following the proper instructions.

### Pick the most optimize wheel and use condition

#### 1. Maximum weight capacity

The maximum weight capacity as shown within the catalog is the value where the caster can operate smoothly when the trolley/vehicle is moved manually on a flat surface. (excluding towing compatible casters)

Please pick the caster with the weight capacity suitable for the total load needed to be transported. Also keep in mind that while using 4 caster wheels, there are times when the weight will be distributed unevenly onto only 3 wheels (3 possessions). Therefore, the total load capacities will be determined by multiplying by 0.8, as shown below. (The weight of the trolley itself is calculated onto the total load capacity.)

#### In the case of using 4 caster.

**The maximum recommended load capacity = the maximum recommended load capacity of 1 caster x 4 x 0.8**

The unit of force shown is daN, 1daN=10N ≈ 1.02 kgf (1kgf≈9.8N=0.98daN)

#### 2. Recommended use speed

Please use our product on a flat surface at room temperature and at the speed range shown below. (avoid continuous use due to friction induce heat)

Wheel diameter	Recommended use speed
Below 100mm (3.937 inches)	Maximum 2 km/h (1.2427 mph)
Above 100mm (3.937 inches)	Maximum 4km/h (2.485 mph)

※Consider using LEADSTAR caster with the maximum recommended speed of 10 km/h (6.214 mph)

#### 3. Use condition

Generally speaking, our caster is designed to be used in a room temperature environment. Avoid using our product in a harsh environment where the product can be affected by high or low temperature, high humidity, acidic, alkalis, salts, solvents, oil, seawater, chemicals, etc... Any of these conditions can potentially damage the products. When using caster in special environments, there may be the need for special additional components such as metal parts, wheels, grease, etc... In order to fit the purpose of use. The wheel may also become dirty due to the floor material. (Please contact us if you need recommendations regarding our product). If you want a way to lock the wheel and stop it from spinning, we recommend using casters with brakes.

#### 4. Brake

Disclaimer: the brake can become broken due to impacts or damages over time. Furthermore, in the case of a hard wheel, the braking function is worse than other wheels. Regarding braking effectiveness, or special need for safety features, please consider using "Wheel chocks, etc..."

### Note regarding caster installation

- (1) Please use together casters from the same product line.
- (2) For swivel caster, ensure the raceways are perfectly vertical when installed.
- (3) For Fixed Wheel caster, install the casters so that the wheels are perfectly parallel.
- (4) Ensure all the nuts and bolts are firmly and properly installed. For the caster of the crew in variety, ensure the bolt is crewed correctly and tightly.
- (5) When installing dual locking caster, ensure the lock is in the OFF stage. Installation while the lock is ON can potentially break the brake.

### Note regarding caster usage

- Depend on the condition and environment where the casters are used, the caster may leave tires mark on the floor
- Do not load more weight than the maximum load capacity.
- When loading items onto the trolley, ensure the weight is evenly distributed on all caster.
- Do not apply too much force on the fixed caster in any direction other than the intended direction (the wheels rolling direction).
- Avoid using the caster in conditions where the product is affected by external forces (example: external force when pushing the trolley up stairs, when the caster is dropped, when it is damaged by lifters.)
- Do not use the caster on floor surfaces that are too rough.
- Do not tow the trolley using motor vehicles. (excluding when using towing compatible casters)
- Wear shoes when using the brakes.
- Do not push the trolley while the brake is still locked.
- Do not use excessive force or cause impact when using the brake.
- Do not use the brake on uneven surfaces.
- Do not use the brake when the trolley is still moving.
- Ensure the brake is unlocked before moving the trolley.
- Do not make any modification to the product under any circumstances. # Please note that we will not take any responsibility if accidents occur due to the modification of our products by the customers.
- Please contact us if you have a need for casters used in chairs or other appliances.

### Inspection, maintenance and replacement.

- ① To prevent accidents and ensure the long lifespan of the product, please inspect and conduct maintenance often. Furthermore, when checking or maintaining casters (cleaning included), be sure to use safety equipment such as gloves (Safety Work Gloves), etc... If you operate on a caster with your bare hands, there is a chance that the metal part will damage your hands, causing injuries.
- ② Please periodically inspect the casters following these instructions  
Do you see anything unusual?  
Check if the caster is damaged, cracked, or deformed.  
Ensure the wheel axle is not loose.
- ③ If the product has any issues such as aging or damage, replace it immediately.  
(Do not replace individual components of the wheel.)
- ④ If foreign objects are caught in the rotating parts or axle, remove them immediately, as they may cause difficulty in rotation or steering.

If you have any questions, please contact the company's branches or sales offices for assistance.



<https://www.yueicaster.co.jp/en/>



<https://www.yueicaster.co.jp/en/archive/movie.html>



<https://www.yueicaster.co.jp/en/inquiry/>



KNCC0325-01-1000

●The contents of this catalog are up-to-date as of March 2025.  
●Please note that the product color may vary depending on printing conditions.  
●Kindly note that product designs and technical specifications may be subject to change as part of ongoing product improvements.