

# Wow!

## Marvelous Turning Performance

# Premium PU



### KAIZEN!

- Efficient transportation.
- Improve workability.

φ150 Turnability

(Pushable 500 kg load)

by one hand

17kg

※1 ■ Two swivel casters and two fixed casters are attached to the trolley, and the maximum pulling force at the time of 500KG loading is measured seven times.  
The Values from internally test: averaging five data with the maximum and minimum values removed.  
Test condition: Set the 2 swivel casters in the forward direction at 90 degrees to the direction of travel and pull on a flat concrete finish road to measure the starting force.

## PMS Type 2 types available by usage

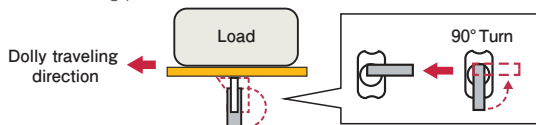
### Emphasis on Turnability

PMS-150APU (E46)

#### 1 Turnability test

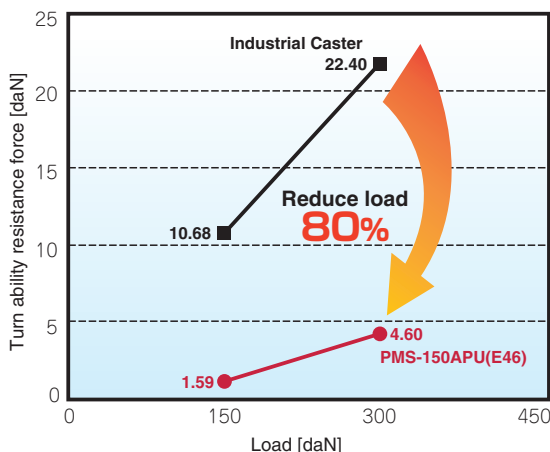
Reduce load  
**80%**  
※Compared with equivalent (300daN)

According to turnability test, PMS-150APU(E46) realized under 20% starting load. (Compared with normal industrial caster wheel) With improving the initial operation that feels the heaviest, it also achieves smooth turning performance.



■ Turn ability test result (JIS B 8920 Turn ability test) Unit : daN

Product Name	load 150 daN	load 300 daN
PMS-150APU(E46)	1.59	4.60
Industrial Caster	10.68	22.40



### Emphasis on Load Capacity

PMS-150APU

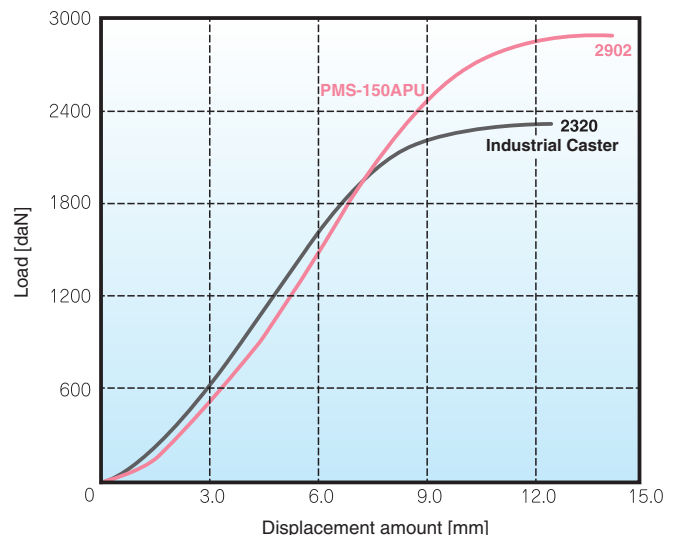
#### 2 Load capacity test

Load capacity  
**125%UP**  
(compared with equivalent)

According to compression test, Maximum load capacity of PMS-150APU is 2,902daN. It has 125% load capacity compared with equivalent (2,320daN). It has ample load capacity performance for heavy loads.

■ Compression test result (Vertical load)

Product Name	Maximum load(daN)	Deformation amount(mm)
PMS-150APU	2902	13.76
Industrial Caster	2320	11.92

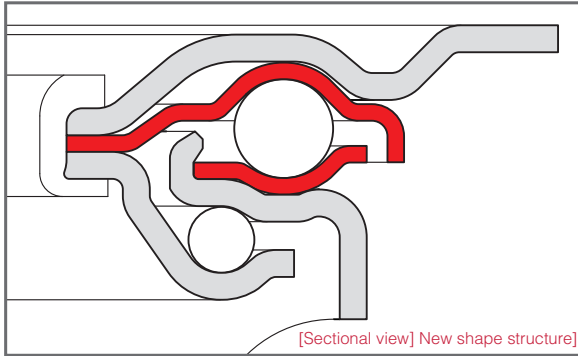


# PMS type **+** plus one 1 feature

We reduced shimmy phenomenon by introducing new bearing structure.

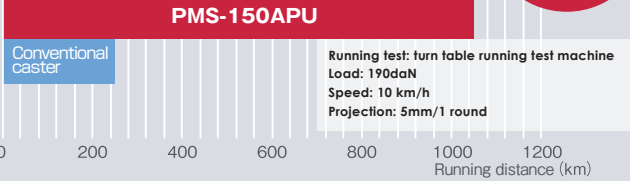
## New designed structure of bearing (turning parts)

New design of bearing structure improved holding power of steel ball. Aiming to dramatically improve turnability and also reduce rolling contact fatigue life. Steel ball scratching on the raceway isn't happened because turnability is stabilized. As a result, smooth running performance lasts long.



**Long life 5 times**  
Compared with conventional product

No problem even if running more than 1,000 km



Shimmy phenomenon: the wheel shakes left and right when caster runs. It might cause trouble which turning part is broken due to metal fatigue. PMS type is chosen special steel. New bearing structure keeps steel ball of structure and lateral runout of the wheel reduced greatly.

PMS running movie scan the QR code

[http://www.youtube.com/watch?v=CtBWPRJF\\_Mg](http://www.youtube.com/watch?v=CtBWPRJF_Mg)



# Premium PU **+** PMS type assists reduction of labor cost and work burden!

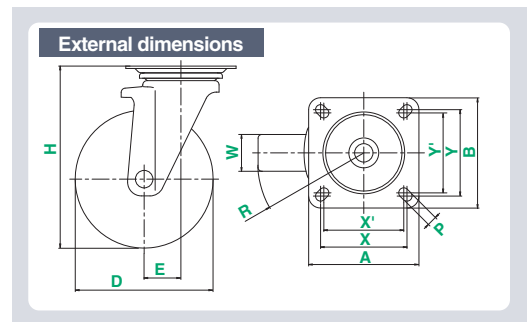
Reduce work burden


Reduce running cost

Comfortable by little noise

## Pushable 500kg trolley by one hand!

Pushable with 17kg power, you can move heavy trolley easily!



Specification	Product Name	Wheel	Wheel dimension D(mm)	Wheel width W(mm)	Mounting height H(mm)	Mounting base AxB(mm)	Mounting dimension XxY(X'xY') (mm)	Hole dimension P(mm)	Offset E(mm)	Turning radius R(mm)	Allowance load daN(kgf)
Swivel	PMS-100APU	 PU (core aluminum)	100	32	144	95×95	74×74 (67×67)	11	32	82	180(183.6)
	PMS-130APU		130	35	177	110×110	90×90 (80×80)	11	40	105	250(255.0)
	PMS-150APU		150	38	198	120×120	94×94 (87×87)	11	40	115	300(306.0)
	PMS-200APU		200	45	250	144×144	120×120 (105×105)	11.5	56	156	400(408.0)
	PMS-150APU(E46)		150	38	198	120×120	94×94 (87×87)	11	46	121	300(306.0)
Fixed	PMR-100APU		100	32	144	115×80	80×45	11	—	—	180(183.6)
	PMR-130APU		130	35	177	137×93	100×56	11	—	—	250(255.0)
	PMR-150APU		150	38	198	137×93	112×50 (100×56)	11	—	—	300(306.0)
	PMR-200APU		200	45	250	151×102	112×63	11.5	—	—	400(408.0)
Swivel double stopper	PMS-130APULB(R)		130	35	177	110×110	90×90 (80×80)	11	40	138	250(255.0)
	PMS-150APULB(R)		150	38	198	120×120	94×94 (87×87)	11	40	138	300(306.0)
	PMS-200APULB(R)		200	45	250	144×144	120×120 (105×105)	11.5	56	156	400(408.0)
	PMS-150APULB(E46)	150	38	198	120×120	94×94 (87×87)	11	46	136	300(306.0)	
Fixed single stopper	PMR-130APULB(R)	130	35	177	137×93	100×56	11	—	—	250(255.0)	
	PMR-150APULB(R)	150	38	198	137×93	112×50 (100×56)	11	—	—	300(306.0)	
	PMR-200APULB(R)	200	45	250	151×102	112×63	11.5	—	—	400(408.0)	

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You can download the drawing via HP. [www.yueicaster.co.jp](http://www.yueicaster.co.jp)

- The content of this flyer is a thing of Dec-2023 current.
- The color of the product may be a little different than real thing.
- Please note that appearance and specification may be changed for improving the product.