

Cushion caster for towing SKY-2 Type

# Excellent shock and vibration absorbing performance!

Shock relieving "Cushioning performance"

Lightly moveable "Starting performance"

Realize long service life "Durability performance"



No.1 ability for towing,  
YUEI CASTER

## SKY-2Type

**Light**

**Quiet**

**Strong**

**1**

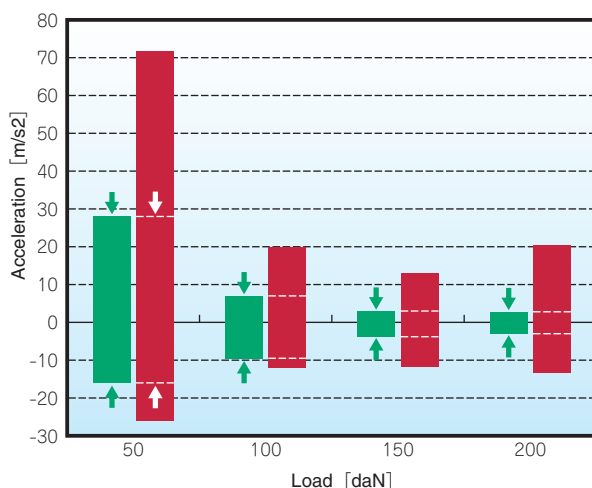
### Verification of cushion performance

#### Absorbing shock by built-in spring

"Shock absorbing spring" reduces the impact transmitted from the unevenness (roughness) of the road surface, to about 1/5 of the conventional one (relative to our conventional products) and suppresses damage to the carriage.

#### ■ Impact acceleration test

load	[daN] ([kgf])	50.00 (51.00)	100.00 (102.00)	150.00 (153.00)	200.00 (204.00)
<b>SKY-2S200WF (AR)</b>					
Max (Upward)		27.54	6.75	2.97	2.80
Min (Downward)		-16.15	-9.63	-3.85	-3.16
<b>WFJ-200 (AR)</b>					
Max (Upward)		71.83	19.59	12.76	20.51
Min (Downward)		-25.81	-11.95	-11.77	-13.60



Shock reduced  
by about  
**80%**

※ Compared with  
comparable products of  
our company

**2**

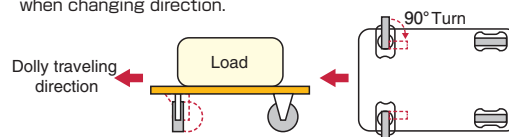
### Turnability test

#### With light mobility, outstanding operability

By increasing the strength of the rotation part, the starting load is reduced by about 30% compared to conventional products (compared to our conventional products). Improved the initial operation that feels the heaviest when carrying and achieved smooth turning performance when changing direction.

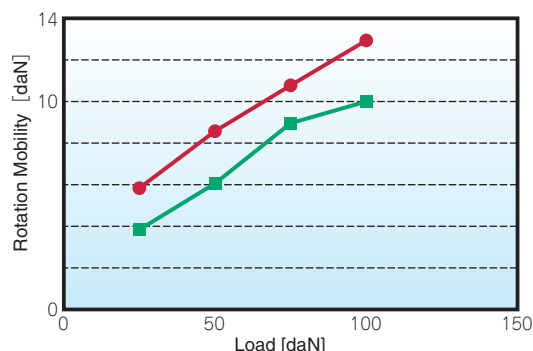
Reduce less than  
**30% shock**

※ Compared with  
equivalent



#### ■ Turn ability test result

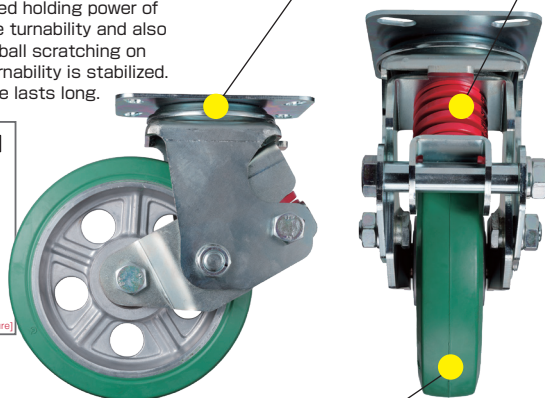
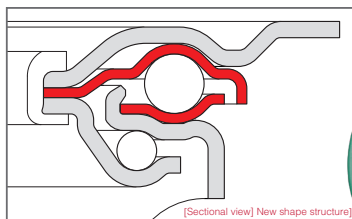
load	[daN] ([kgf])	25.00 (25.50)	50.00 (51.00)	75.00 (76.50)	100.00 (102.00)
<b>SKY-2S200WF (AR)</b>					
Rotation Mobility	[daN] ([kgf])	3.89 (3.97)	6.15 (6.27)	8.84 (9.02)	10.03 (10.23)
<b>SKY-1S200WF (AR)</b>					
Rotation Mobility	[daN] ([kgf])	5.89 (5.97)	8.49 (8.66)	10.78 (11.00)	12.90 (13.16)



# Quiet & Strong

## 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.



## Aluminum die-cast wheel excellent in rotation accuracy

Adopted self-developed aluminum wheels to reduce the side shift. Vibration of the wheel is greatly reduced, and noise is also reduced.

## Shock Absorbing Spring

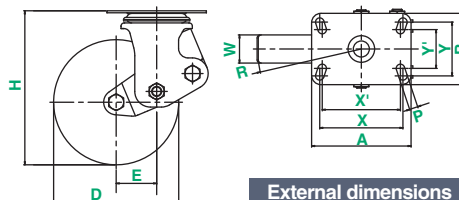
By the built-in "Shock Absorbing Spring", load and wearing to wheel is reduced and realized long life. Depending on the usage environment but, the wear is reduced to 50% to 25% compared to the conventional wheel without spring.

2 springs available from usage

### Shock absorbing range of spring

Symbol	Spring color	
-1	Blue	100daN
-2	Red	200daN

We have 2 springs lineup to deal with various load weight. You are possible to choose suitable spring from your goods weight.



Product Name	Wheel	Wheel dimension D(mm)	Wheel width W(mm)	Mounting height H(mm)	Mounting base A			Mounting base B			Offset E(mm)	Turning radius R(mm)	Standard load [daN(kgf)]
					Mounting base (mm)	Mounting dimension XX(X X Y Y (mm))	Hole dimension (mm)	Mounting base (mm)	Mounting dimension XX(X X Y Y (mm))	Hole dimension (mm)			
SKY-2S150WF (AR)	Abrasion Resistant Rubber (including B)	150	40	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50	126	-1 100(102.0)
SKY-2R150WF (AR)		150	40	193~183			13.5	137×93	112×50 (100×56)	11	50	—	-2 200(204.0)
SKY-2S200WF (AR)		200	43	246~236			13.5	144×144	120×120 (105×105)	11.5	65	166	-1 100(102.0)
SKY-2R200WF (AR)		200	43	246~236			13.5	180×110	112×63 (140×50)	11.5	65	—	-2 200(204.0)
SKY-2S150WF (Gr)	Rubber (including B)(Green)	150	40	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50	126	-1 100(102.0)
SKY-2R150WF (Gr)		150	40	193~183			13.5	137×93	112×50 (100×56)	11	50	—	-2 200(204.0)
SKY-2S200WF (Gr)		200	43	246~236			13.5	144×144	120×120 (105×105)	11.5	65	166	-1 100(102.0)
SKY-2R200WF (Gr)		200	43	246~236			13.5	180×110	112×63 (140×50)	11.5	65	—	-2 200(204.0)
SKY-2S150AW	Rubber (including B)	150	42	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50	126	-1 100(102.0)
SKY-2R150AW		150	42	193~183			13.5	137×93	112×50 (100×56)	11	50	—	-2 200(204.0)
SKY-2S200AW		200	45	246~236			13.5	144×144	120×120 (105×105)	11.5	65	166	-1 100(102.0)
SKY-2R200AW		200	45	246~236			13.5	180×110	112×63 (140×50)	11.5	65	—	-2 200(204.0)
SKY-2S150AW (AR) Gr	Abrasion Resistant Rubber (including B)(Green)	150	42	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50	126	-1 100(102.0)
SKY-2R150AW (AR) Gr		150	42	193~183			13.5	137×93	112×50 (100×56)	11	50	—	-2 200(204.0)
SKY-2S200AW (AR) Gr		200	45	246~236			13.5	144×144	120×120 (105×105)	11.5	65	166	-1 100(102.0)
SKY-2R200AW (AR) Gr		200	45	246~236			13.5	180×110	112×63 (140×50)	11.5	65	—	-2 200(204.0)
SKY-2S150UWF	Urethane (including B)	150	38	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50	126	-1 100(102.0)
SKY-2R150UWF		150	38	193~183			13.5	137×93	112×50 (100×56)	11	50	—	-2 200(204.0)
SKY-2S200UWF		200	42	246~236			13.5	144×144	120×120 (105×105)	11.5	65	166	-1 100(102.0)
SKY-2R200UWF		200	42	246~236			13.5	180×110	112×63 (140×50)	11.5	65	—	-2 200(204.0)
SKY-2S150UWF/INJ	Urethane (including B)	150	38	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50	126	-1 100(102.0)
SKY-2R150UWF/INJ		150	38	193~183			13.5	137×93	112×50 (100×56)	11	50	—	-2 200(204.0)
SKY-2S200UWF/INJ		200	42	246~236			13.5	144×144	120×120 (105×105)	11.5	65	166	-1 100(102.0)
SKY-2R200UWF/INJ		200	42	246~236			13.5	180×110	112×63 (140×50)	11.5	65	—	-2 200(204.0)

■Description of product number	SKY-	2S	150	AW	-	A	-	1
		Bracket type	Wheel dimension	Wheel		Mounting dimension		Spring type

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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.