

Cushion caster SKY-2 type (with stopper)

Excellent shock and vibration absorbing performance!



NEW

Traction caster "SKY-2 type" has released a latest model with a stopper.

1 Verification of cushion performance

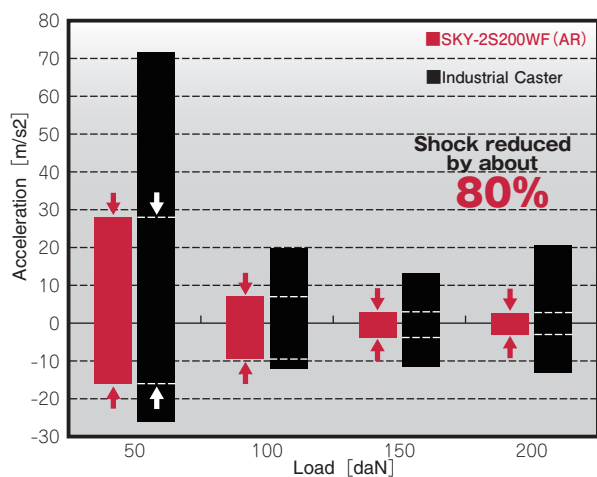
Absorbing shock by built-in spring

"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.

Shock reduced by about **80%**
*Compared with comparable products of our company

Impact acceleration test

荷重 [daN] ([kgf])	50.00 (51.00)	100.00 (102.00)	150.00 (153.00)	200.00 (204.00)
SKY-2S200WF (AR)				
Acceleration [m/s ²] Max (Upward)	27.54	6.75	2.97	2.80
Min (Downward)	-16.15	-9.63	-3.85	-3.16
Industrial Caster				
Acceleration [m/s ²] Max (Upward)	71.83	19.59	12.76	20.51
Min (Downward)	-25.81	-11.95	-11.77	-13.60

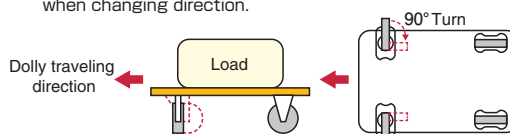


2 Turnability test

With light mobility, outstanding operability

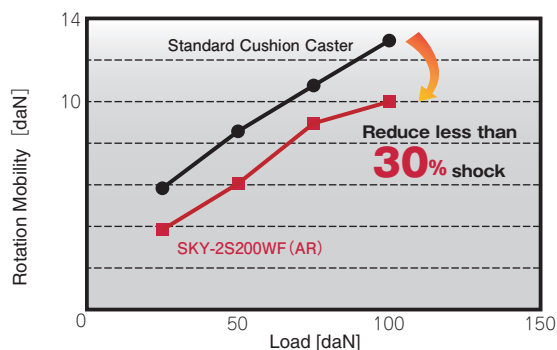
By increasing the strength of the rotation part, the starting load is reduced by about 30% compared to conventional products (compared to our conventional products). Improved the initial operation that feels the heaviest when carrying and achieved smooth turning performance when changing direction.

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)
SKY-2S200WF (AR)				
Rotation Mobility [daN] ([kgf])	3.89 (3.97)	6.15 (6.27)	8.84 (9.02)	10.03 (10.23)
Standard Cushion Caster				
Rotation Mobility [daN] ([kgf])	5.89 (5.97)	8.49 (8.66)	10.78 (11.00)	12.90 (13.16)

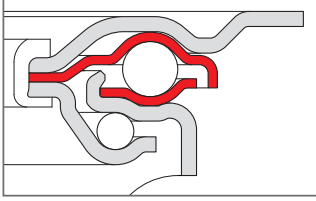


Quiet & Strong

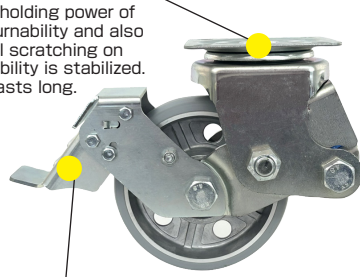
New stopper can take any dangers with mobility away!

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.



[Sectional view] New shape structure



Single Stopper

This single stopper on the wheel immobilizes a trolley with goods. Pedal type enables users to stop trolley easily.

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	Proer Load
-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.

Various wheels for all sort of usage environment are available.

When you use this caster for traction, we recommend you to use Abrasion Resistant Rubber wheel, which is superior in durability to run for a long time with less friction. In addition, various wheels suited to usage environment are available; Green Rubber, which is excellent at floor protection, Premium PU, which has high turning-startability, Ultimate PU, which use harder urethane, and so on.

Specification



Swivel



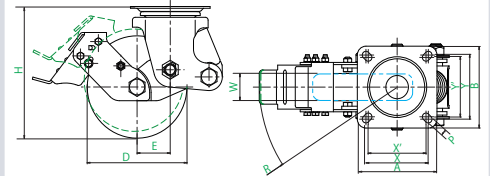
Fixed



Single Stopper

Order Example	SKY-	2S	150	AW	S	A	1
		Bracket type	Wheel dimension	Wheel	Stopper	Mounting dimension	Spring type
		Swivel: S Fixed: R	φ150 φ200	Wheel type (Select from the table below)	With stopper	Mounting dimension A or B	Proer Load 1~100daN 2~200daN

External dimensions



*Mounting dimension of Mounting base B for SKY-2R is X×Y (X×Y).

Product Name (S:Swivel/R:Fixed)	Wheel dimension D(mm)	Mounting height H(mm)	Mounting base A			Mounting base B			Eccentricity E(mm)	Turning radius (with stopper) R(mm)	Proer Load [daN(kgf)]	
			Mounting base A×B(mm)	Mounting dimension X×Y(X'×Y')(mm)	Hole dimension P(mm)	Mounting base A×B(mm)	Mounting dimension X×Y(X'×Y')(mm)	Hole dimension P(mm)			-1	-2
SKY-2S150	150	193~183	159×114	133×86 (125×62)	13.5	120×120	94×94 (87×87)	11	50~54	126~131 (209~208)	-1	100(102.0)
SKY-2S200	200	246~236				144×144	120×120 (105×105)	11.5	65~67	166~168 (257~254)	-1	100(102.0)
SKY-2R150	150	193~183	159×114	133×86 (125×62)	13.5	137×93	112×50 (100×56)	11	50~54	—	-1	100(102.0)
SKY-2R200	200	246~236				180×110	112×63 (140×50)	11.5	65~67	—	-1	100(102.0)

Wheel lineup

Wheel name	WF(AR)	AW	UWF/INJ	AUU
Wheel type	Abrasion Resistant Rubber	Abrasion Resistant Rubber	PU	Ultimate PU
Wheel width W (mm)	φ 150 : 40 / φ 200 : 43	φ 150 : 42 / φ 200 : 45	φ 150 : 38 / φ 200 : 42	φ 150 : 42 / φ 200 : 45
Characteristic	High runnability High durability	High durability Aluminum wheel with high-strength	Oil-resistance High turning-startability ★	High-strength High turning-startability ★★★
Image				

*UWF/INJ--No stopper

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You can download the drawing via HP. www.yueicaster.co.jp/en/

● The content of this flyer is a thing of Jul-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.