

- Light and durable structure
- Static electricity protection
- Lock system / noiseless
- Patent Korea with pct
- Polyamide extrude molding products
- Double brake system
- Durable king pin structure
- Operation without error

**PERFECT<sup>®</sup>  
CASTER**

www.casterhs.com



**HWA SUNG INDUSTRIAL CO.,**



*No rust, no need to change casters every 6 months!!  
No problem in working even at -30°C in the freezer  
(We tested at -30°C)*



**HWA SUNG INDUSTRIAL CO.,LTD.**  
Unique static Electricity Protection Caster In the World

TEL. 82-53-526-6701 FAX. 82-53-521-2937

E-mail. hs02938@naver.com

47, Gareubaengi-ro 6-gil, Seo-gu, Daegu, ROK





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INNOBIZ

PCT  
US PAT



FOOD  
PROCESSING  
MACHINERY

# MOVE SMART WORK STRONG

***HWASUNG INDUSTRIAL CASTERS & PLATFORM TRUCK***



**HWA SUNG INDUSTRIAL CO.,LTD.**

Unique static Electricity Protection Caster In the World



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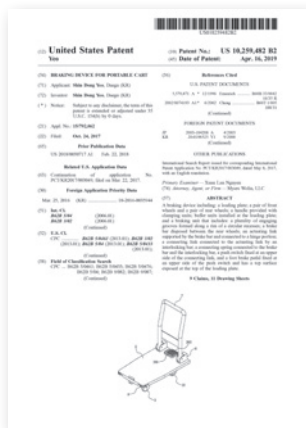
**FOOD  
PROCESSING  
MACHINERY**

***OUR CASTERS ARE  
TOUGH,  
RUST PROOF,  
AND LONG LASTING.  
WORKS WELL BELOW  
FREEZING -30°C.***

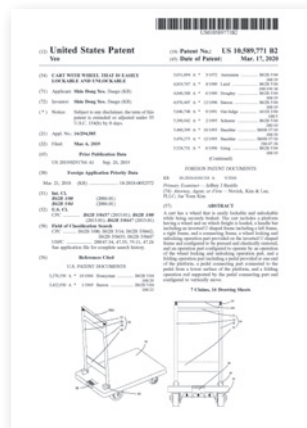
- Our latest casters are so tough it can withstand almost anything!
- Rust Proof even in salty environment.
- Specially developed material called Nylon 6 for use in low temperatures.
- High temperature 300°F, Low Temp: -40°F (Our new line)
- Very quiet.
- Free maintenance.
- Very strong resistance to chemicals & grease.
- NSF mark ensures that this is a certified product.
- Very reliable, lasts for years.
- We have from 3 inch to 6inch.
- 6 inch load capa/pc 650LBX4=2,500L/B, 5 inch:450L/B
- 4 inch:350L/B, 3 inch:150L/B



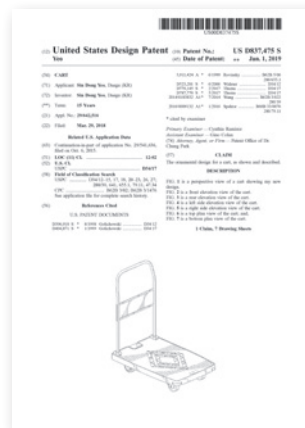
## ▶ US Patents



Protavle car braking system  
US 10259482 B2



Cart with wheels that you  
can easily lock and unte  
US 10589771 B2



Cart  
US D 837475 S



Caster with a brake and wheels  
US 9,266393 B2

## ▶ Japan Patents



Protavle car brake  
JP 6564880 B2



Cart that's easy to lock and unlock  
JP 6745369 B2



Level caster  
JP 6890361 B2



Caster where the shaft and  
wheel are simultaneously braked  
JP 5932034 B2

| Certificate    | Content                                                                             | Number             | Date                    |
|----------------|-------------------------------------------------------------------------------------|--------------------|-------------------------|
| Patent         | Level Caster                                                                        | 10-1882626         | 2018.07.20 ~ 2037.11.26 |
| Design         | Caster                                                                              | 30-0661613         | 2021.09.24 ~ 2032.09.23 |
| USA Patent     | Braking device for portable cart                                                    | US 10,259,487,B2   | 2019.04.16 ~ 2038.04.16 |
| Patent         | It's easy to lock and unlock wheels                                                 | 10-1899755         | 2018.09.11 ~ 2038.03.21 |
| Design         | Hand cart                                                                           | 30-0921656         | 2018.08.03 ~ 2038.08.02 |
| USA Design     | Cart                                                                                | US D837,475,S      | 2019.01.01 ~ 2038.12.31 |
| Patent         | Carts to carry items                                                                | 10-2158423         | 2020.09.15 ~ 2039.01.23 |
| USA Patent     | Cart with wheel, that is easily lockable and unlockable                             | US 10,589,771,B2   | 2019.03.17 ~ 2039.03.16 |
| Chinese Patent | 手推车(Cart)                                                                           | ZL20150300392121.0 | 2016.03.02 ~ 2036.03.01 |
| Japan Patent   | ポータブルカートの制動装置<br>(Braking device of a portable cart)                                | JP 6564880 B2      | 2019.08.02 ~ 2039.08.01 |
| Japan Patent   | 車輪系止及び解除が容易なカート<br>(Cart that's easy to stop and release the wheel)                 | JP 6745369 B2      | 2020.08.05 ~ 2040.08.04 |
| Japan Patent   | レベルキャスタ (Leveling Caster)                                                           | JP 6890361 B2      | 2021.05.27 ~ 2041.05.27 |
| Japan Patent   | 軸とホイールが同時に制動されるキマスタ<br>(Caster where the shaft and wheel are simultaneously braked) | JP 5932034 B2      | 2016.05.13 ~ 2036.05.12 |



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No.10-2024-0004443



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# DUAL WHEEL CASTER

Dual Eccentric Caster

High-strength bearings  
are applied

Bottom: SUS 304

SUS 304



- Maintains maneuverability and stability with a dual-wheel structure.
- Convex-shaped high-hardness TPE that aids in smooth and delicate driving.

Watch the Video



waterproof

For high load



High durability



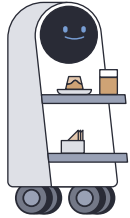
High maneuverability



- ✓ Durable caster.
- ✓ Bearings are used in the axle and swivel sections to ensure smooth rotation even under high loads.
- ✓ The two-wheel structure provides good maneuverability, and there is minimal shaking when switching between forward and reverse.
- ✓ Utilizes a patented dual eccentric design to deliver outstanding turning performance.
- ✓ Adopts high-strength TPE wheels designed to minimize friction with the ground, realizing smooth mobility.

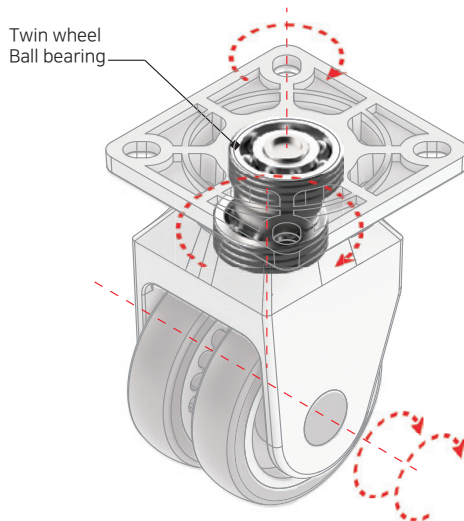
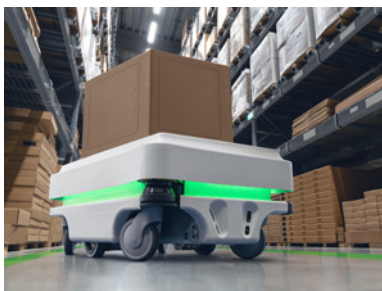


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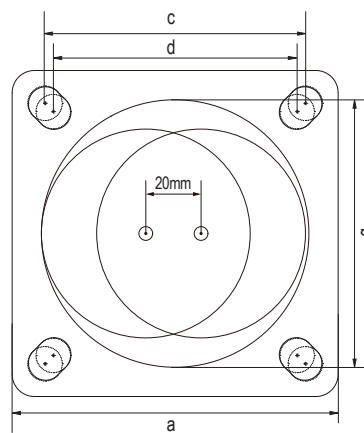


## ► Applications

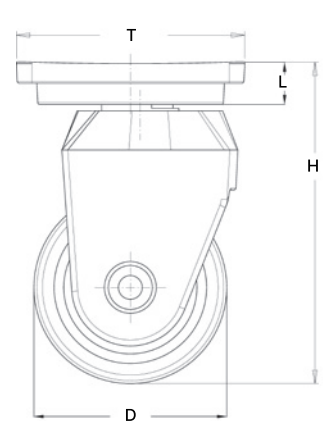
- Autonomous Mobile Robots (AMR, AGV)
- Smart Logistics Systems
- Carts for Medical and Food Equipment
- Transport Platforms for Precision Machinery



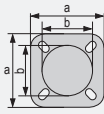
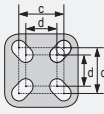
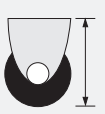
< Top view of plate >



< Side view of caster >



## ► Specifications

| Caster specification |               |         |                                                                                                   |                                                                                                        |                                                                                                     | Wheel specification                                                                                  |                                                                                                     |                                                                                                        |
|----------------------|---------------|---------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Model NO.            | Dia-<br>meter | Weight  | Plate size<br> | Bolt hole space<br> | Total height<br> | Wheel width<br> | Wheel size<br> | Load capacity<br> |
| DWC-5 / DWCS-5       | 5 In.         | 1.85 kg | a=4.6 In.(117 mm)                                                                                 | c= 3.7 In.(95 mm)                                                                                      | 7.32 In.(186 mm)                                                                                    | 2.76 In.(70 mm)                                                                                      | 4.92 In.(125 mm)                                                                                    | 250 kg                                                                                                 |
| DWC-4 / DWCS-4       | 4 In.         | 1.26 kg | b= 3.74 In.(95 mm)                                                                                | d= 3.5 In. (85 mm)                                                                                     | 6.34 In.(161 mm)                                                                                    | 2.64 In.(67 mm)                                                                                      | 3.86 In.(98 mm)                                                                                     | 200 kg                                                                                                 |
| DWC-3 / DWCS-3       | 3 In.         | 1kg     | a=3.86 In.(98 mm)<br>b= 3.21 In.(82 mm)                                                           | c= 3.15 In.(78 mm)<br>d= 2.64 In.(70 mm)                                                               | 5.12 In.(130 mm)                                                                                    | 2.56 In.(65 mm)                                                                                      | 2.95 In.(75 mm)                                                                                     | 150 kg                                                                                                 |

- Body: Nylon glass (reinforced plastic) ▪ Wheel: TPE



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Low noise



Water proof



Eco-friendly

# PERFECT<sup>®</sup> CASTER

SHW Series



| Caster specification |                |                                                                                                              | Wheel specification                                                                                         |                                                                                                             |                                                                                                                  |                                                                                                               |
|----------------------|----------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Model NO.            | Diameter (In.) | Total height (In./mm)<br> | Wheel width (In./mm)<br> | Wheel size (In./mm)<br> | Load capacity (Lbs./kg)<br> | Bolt thickness (In.)<br> |
| SHW-6 / SHW-N6       | 6              | 8 / 204                                                                                                      | 2 / 50                                                                                                      | 6 / 150                                                                                                     | 650 / 300                                                                                                        | 5/8 or M12                                                                                                    |
| SHW-5 / SHW-N5       | 5              | 7 / 178                                                                                                      | 2 / 45                                                                                                      | 5 / 125                                                                                                     | 450 / 200                                                                                                        |                                                                                                               |
| SHW-4 / SHW-N4       | 4              | 6 / 147                                                                                                      | 1.5 / 37                                                                                                    | 4 / 100                                                                                                     | 350 / 150                                                                                                        |                                                                                                               |
| SHW-3 / SHW-N3       | 3              | 5 / 124                                                                                                      | 1 / 32                                                                                                      | 3 / 75                                                                                                      | 150 / 70                                                                                                         |                                                                                                               |



# SHS Series



| Caster specification    |                |                                                                                                              | Wheel specification                                                                                         |                                                                                                             |                                                                                                                  |                                                                                                                |
|-------------------------|----------------|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Model NO.               | Diameter (In.) | Total height (In./mm)<br> | Wheel width (In./mm)<br> | Wheel size (In./mm)<br> | Load capacity (Lbs./kg)<br> | Bolt hole space (In.)<br> |
| SHS-6 / SHS-N6 / SHS-R6 | 6              | 8 / 204                                                                                                      | 2 / 50                                                                                                      | 6 / 150                                                                                                     | 650 / 300                                                                                                        | 3.35~3 × 3~2.56                                                                                                |
| SHS-5 / SHS-N5 / SHS-R5 | 5              | 7 / 178                                                                                                      | 2 / 45                                                                                                      | 5 / 125                                                                                                     | 450 / 200                                                                                                        |                                                                                                                |
| SHS-4 / SHS-N4 / SHS-R4 | 4              | 6 / 147                                                                                                      | 1.5 / 37                                                                                                    | 4 / 100                                                                                                     | 350 / 150                                                                                                        | 1.85~1.65 × 3.15~2.83                                                                                          |
| SHS-3 / SHS-N3 / SHS-R3 | 3              | 5 / 124                                                                                                      | 1 / 32                                                                                                      | 3 / 75                                                                                                      | 150 / 70                                                                                                         |                                                                                                                |

# LEVELING CASTER

## HW Series

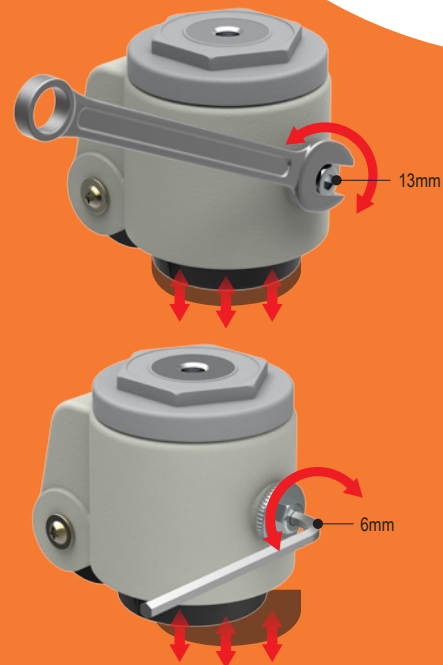


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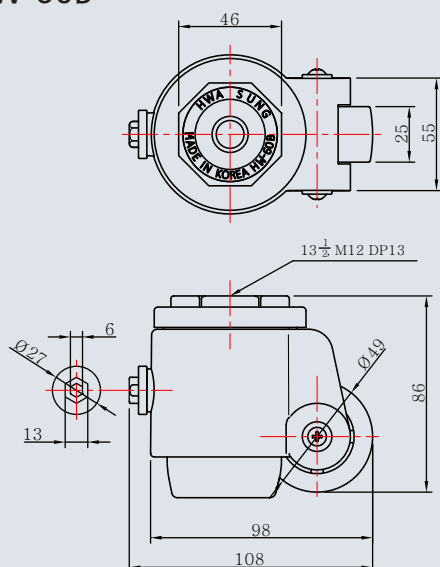


HW-60B / HW-80B

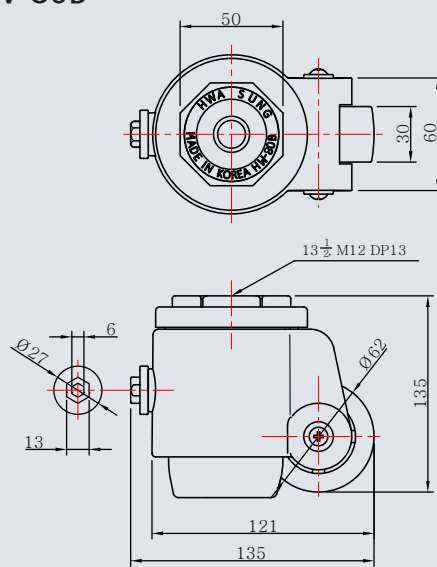


| Bolt Type |               |                           |            |                   |
|-----------|---------------|---------------------------|------------|-------------------|
| Model NO. | Load capacity | Recommended load capacity | Net weight | Temperature range |
| HW-60B    | 500kg/EA      | 1,000kg/4EA               | 1.11kg     | -10 ~ +80°C       |
| HW-80B    | 800kg/EA      | 1,600kg/4EA               | 2.21kg     | -10 ~ +80°C       |

HW-60B



HW-80B

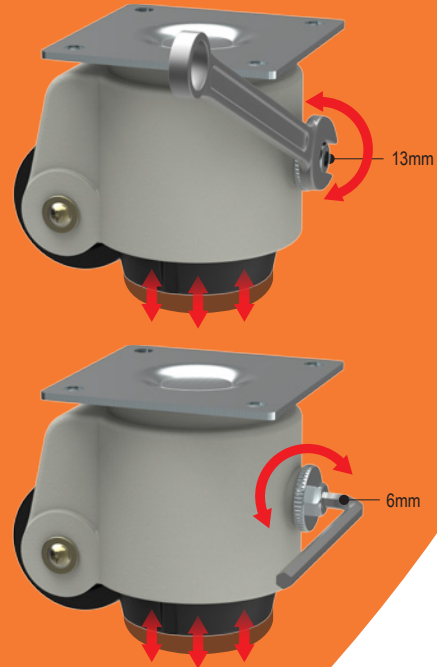




*You can adjust the height with a spanner or hex wrench.  
The parts of the caster are full stainless steel.*

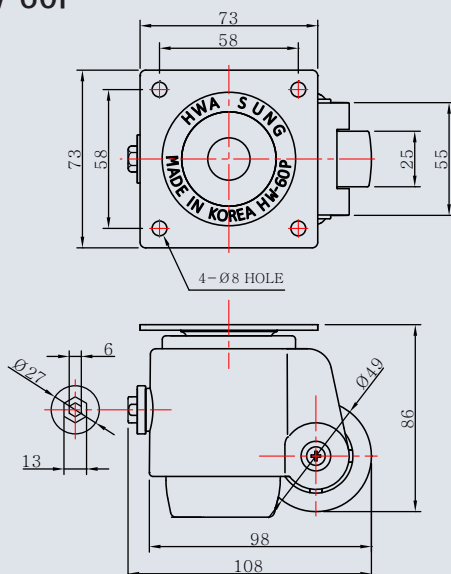


**HW-60P / HW-80P**

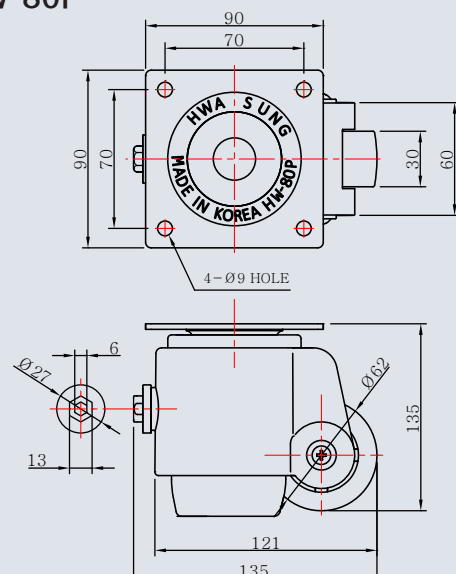


| PlateType |               |                           |            |                   |
|-----------|---------------|---------------------------|------------|-------------------|
| Model NO. | Load capacity | Recommended load capacity | Net weight | Temperature range |
| HW-60P    | 500kg/EA      | 1,000kg/4EA               | 1.11kg     | -10 ~ +80°C       |
| HW-80P    | 800kg/EA      | 1,600kg/4EA               | 2.21kg     | -10 ~ +80°C       |

**HW-60P**



**HW-80P**



# PLATFORM TRUCK

**Silent and quiet compact cart that rolls smooth.**

Built in folding handle and foot break provides better control.

Synthetic PP material provides excellent shock absorption.



Noiseless ball bearing wheels are used!  
Made from a special fiberglass nylon material,  
it withstands temperatures down to  $-30^{\circ}\text{C}$  and  
offers strong durability without rusting!!



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PROCESSING  
MACHINERY**



Low noise



Water proof



Eco-friendly

You can move the cart on its side too using the built in corner wheels.

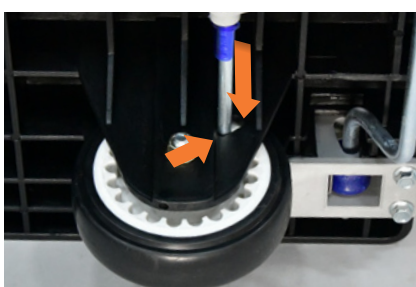


There is a brake to prevent slip accidents.(Only HWC-200(H)/HWC-300(H))  
It's a designed with a lock-device gear brake for clear control.



Coner shock protection wheels protect the product agailnt scratches.

You can easily fold the handle with a one-touch.



There is a gear brake to prevent slip accidents.(Only HWC-200/HWC-300)

The gear brake can be clealy controlled.

You can fold the handle for compact storage.

| Model      | Weight (Lbs./kg)     | Wheel material    | Character                                     | Load capacity (Lbs./kg) | Platform size (In./mm)        | Wheel size (In./mm) | Coner wheel size (In./mm) |
|------------|----------------------|-------------------|-----------------------------------------------|-------------------------|-------------------------------|---------------------|---------------------------|
| HWC-200(H) | 18.7 Lbs.<br>8.5kg   | CO-PP (elastomer) | No-noise,<br>Equipped with the locking device | 440 Lbs.<br>200 kg      | 31×19×6 In.<br>790×490×155 mm | 4 In.<br>100mm×4EA  | 3 In.<br>70mm×2EA         |
| HWC-300(H) | 29.3 Lbs.<br>13.3kg  | CO-PP (elastomer) | No-noise,<br>Equipped with the locking device | 660 Lbs.<br>300 kg      | 35×23×7 In.<br>900×590×180 mm | 6 In.<br>150mm×4EA  | 3.1 In.<br>80mm×2EA       |
| HWC - 200  | 18.2 Lbs.<br>8.3 kg  | CO-PP (elastomer) | No-noise,<br>Equipped with the locking device | 440 Lbs.<br>200 kg      | 31×19×6 In.<br>790×490×155 mm | 4 In.<br>100mm×4EA  | 3 In.<br>70mm×2EA         |
| HWC - 300  | 29.3 Lbs.<br>13.3 kg | CO-PP (elastomer) | No-noise,<br>Equipped with the locking device | 660 Lbs.<br>300 kg      | 35×23×7 In.<br>890×590×180 mm | 6 In.<br>150mm×4EA  | 3.1 In.<br>80mm×2EA       |