

FOOT MASTER®

GDS & GDSP

S E R I E S



SMART SOLUTION FOR SHOCK ABSORPTION
AND NOISE REDUCTION

THE **PRIDE** OF **TOP QUALITY.**

DESIGN

An engineering response to a strategic question balancing form and function

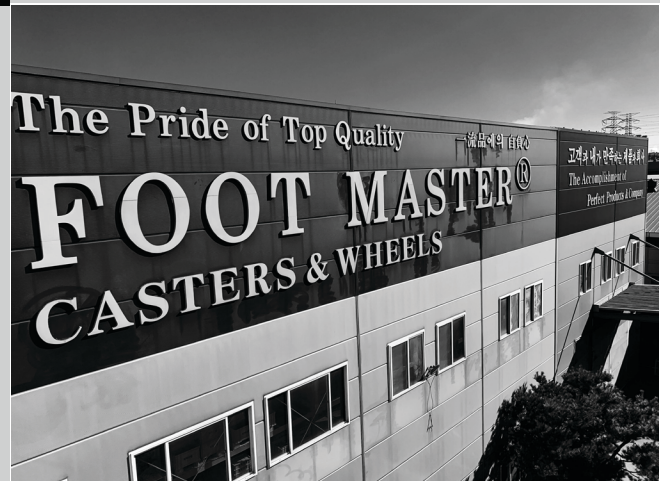


MANUFACTURE

Precision engineering with advanced technology reflects superb craftsmanship

SOLUTION

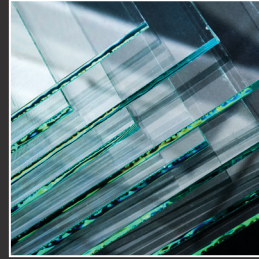
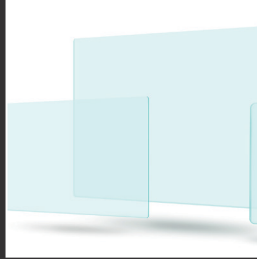
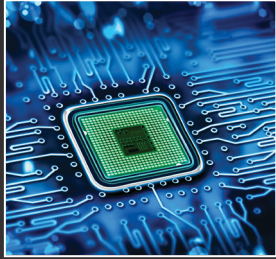
The elimination of a problem to deliver successful outcomes and satisfaction



FOOT MASTER® SHOCK ABSORBING CASTERS

Applications

SHOCK SENSITIVE ENVIRONMENT



Semi-Conductors | LCDs | Glass

NOISE SENSITIVE ENVIRONMENT



Automotive | Hotels | Restaurants

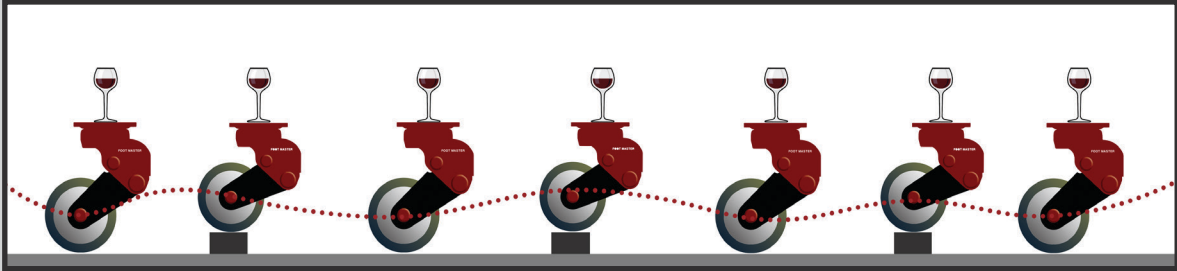
EASIER HANDLING



AGVs | Carts | Scissor Lifts

FOOT MASTER® SHOCK ABSORBING CASTERS

The Evidence



FOOT MASTER Shock Absorbing Casters are the best solution for protecting sensitive objects, such as semi-conductors, glass and specialized equipment. In addition, they serve as excellent noise-reducing options in workshops, factories, offices, restaurants, clean rooms and production floors.

— THE ADVANTAGES —

SUPERIOR SHOCK PROTECTION

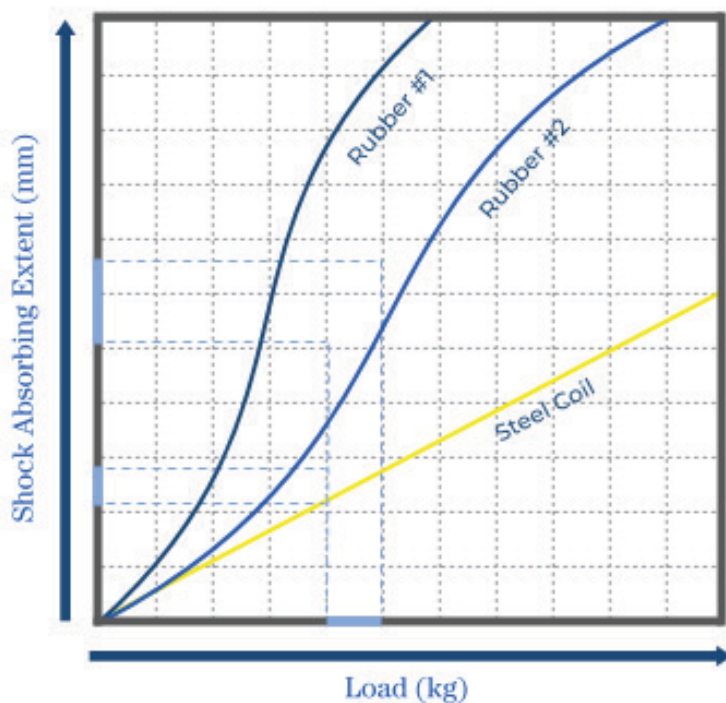
NOISE-REDUCING SOLUTION



“

*It's not the heavy load that breaks you,
it's the way you carry it.*

— Lou Holtz



This graph shows the relationship of increasing the load relative to the steel coil spring's capabilities compared to a rubber cushion.

Rubber #1 and Rubber #2 represent the various types of specially designed cushions, which perform far superior with increasing loads compared to the steel coil.

RUBBER VS. STEEL

This graph reveals the unmatched performance of FOOT MASTER's specially designed rubber cushion.

STEEL COIL

Linear Deformation As Weight Increases = Noise + Wear & Tear

FOOT MASTER's rubber cushion is far superior to the steel coil spring, as it absorbs the additional weight more efficiently with a smaller, non-linear deformation.

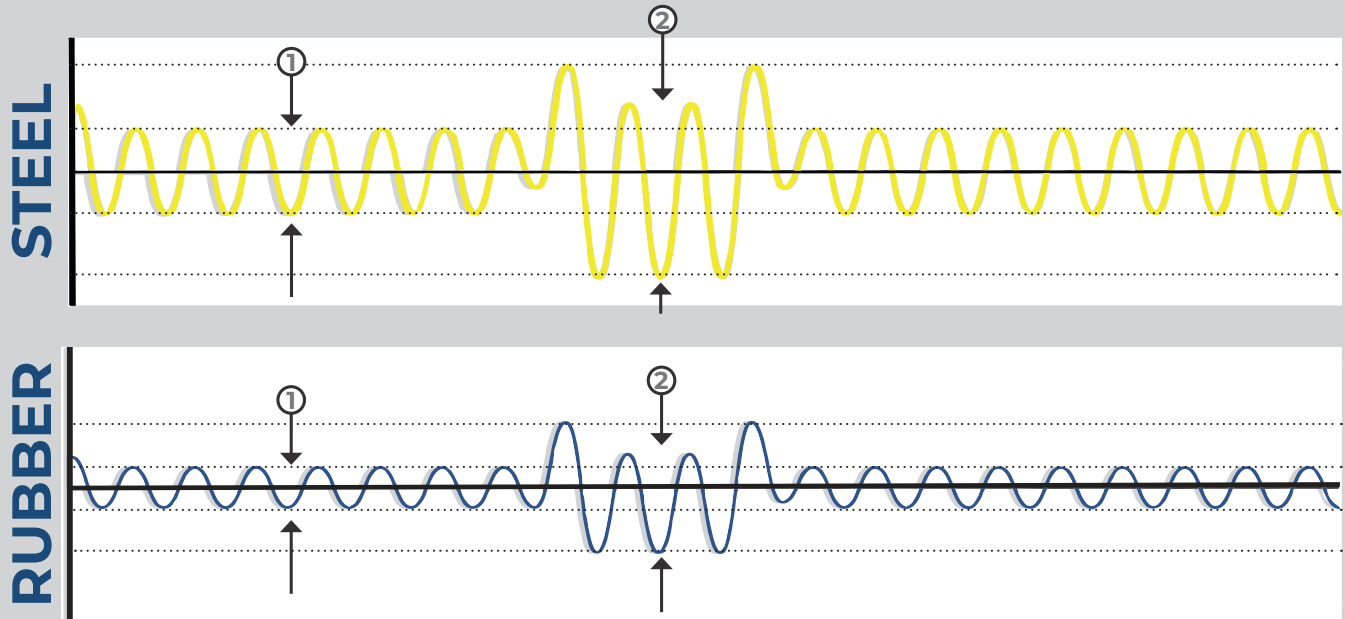
RUBBER CUSHION

Superior Life Span + Added Protection + Zero Maintenance

**Bumps in
the road? No
problem!**

FOOT MASTER® SHOCK ABSORBING CASTERS

The Evidence



¹Refers to the deviation over consistent ground.

²Refers to the deviation when caster hits a bump in the road.

NOISE REDUCTION

In this graph, FOOT MASTER® shock absorbing casters limit and potentially eliminate sound energy. The reduction is dramatic compared to steel coiled casters.

Bumps in the road are not a problem for FOOT MASTER® shock absorbing casters. In fact, they excel by generating fewer and narrower outliers (see graph above) because the specially designed rubber cushion absorbs the impact forces of the inconsistent ground.

GDS

S E R I E S

Materials & Specifications

Top Plate: Pressed Steel
Frame: Aluminum
Spring: Special Rubber
Finish: Powder Coating & Zinc Galvanized
Capacity: 90 - 350 kg.
Temperature: (-10°)~90°C

Wheel Diameter Options

75 mm (3") - 100 mm (4")
125 mm (5") - 130 mm (5-1/8")
150 mm (6") - 200 mm (8")



GDS-150-ARF-HUD-75



GDS-200-ASS-HUD-65



GDS-150-ASF-HUD-65



GDS-100-BSS-LUD-65



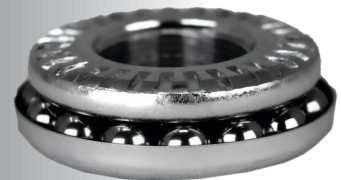
GDS-100-ARS-LUD-65

RIG. For the GDS, strength and flexibility are achieved by utilizing a multi-part rig. The aluminum frame is designed to support two pressed steel legs (aluminum legs on GDS-100 and GDS-125 models) designed to facilitate movement. With this configuration, the GDS is free to respond when encountering rough surfaces and abrupt transitions.



UPPER BEARING RACEWAY. Minimal effort is required to maneuver the GDS. The upper raceway is a forged steel mounting plate with a hardened steel raceway sleeve. It is used to protect the aluminum frame from scoring and compression, leading to increased longevity. Mounting options include a threaded stem, grip ring stem and various top plates.

LOWER BEARING RACEWAY. Situated inside the aluminum frame, the hardened steel lower raceway is precisely machined to securely fasten the mounting plate and the upper raceway to the rig. While most casters simply press fit a rivet, FOOT MASTER uses a threaded kingpin tightened with the exact amount of torque to ensure consistency and durability.



AXLE. Numerous stages of meticulous machining transform high quality raw material into a perfectly balanced axle. The unique, integrated shaft design eliminates any tolerance variation that could occur during operation, improving the caster's rolling performance.

RUBBER CUSHION. The GDS displays unrivaled performance through advanced shock absorbing technology. A specially designed rubber cushion replaces traditional steel springs for superior protection, noise reduction and extended product life. Various durometer options are available to meet load and operational requirements.



WHEEL. Polyurethane wheels are bonded to an aluminum core using two ball bearings. Because this is cast polyurethane rather than injection molding, FOOT MASTER wheels have a much wider range of hardness, improved opposition to abrasion and enhanced resistance to most chemicals.

FOOT MASTER®

SHOCK ABSORBING CASTERS

GDS Series - Mounting Options & Plate Configurations



SWIVEL



RIGID



BRAKE



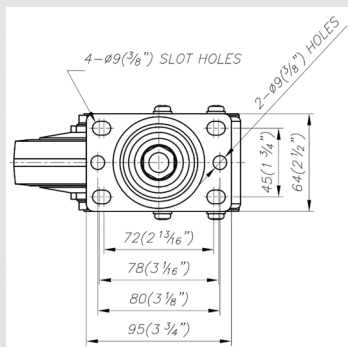
SWIVEL



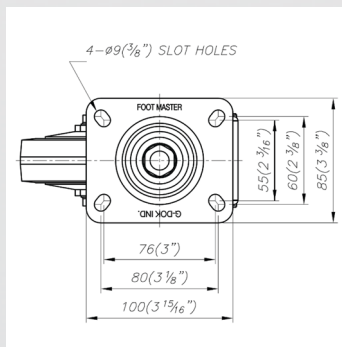
RIGID



BRAKE



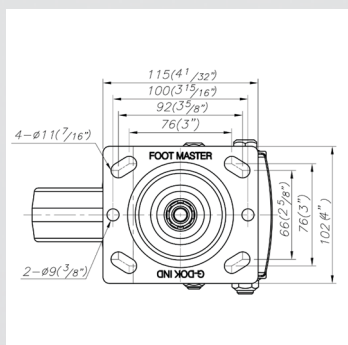
-PUS



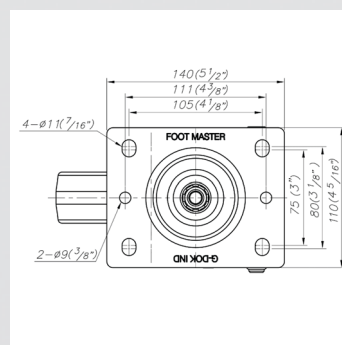
-PEU

**AVAILABLE
FOR:**

**75
100
125**



-PUS



-PEU

**AVAILABLE
FOR:**

**130
150
200**

FOOT MASTER®

SHOCK ABSORBING CASTERS

GDS Series - Wheel Types | Cushion | Options

WHEEL TYPE: LUD



- Cast Polyurethane (90A)
- Aluminum Core
- 2 Ball Bearings

WHEEL TYPE: HUD



- Cast Polyurethane (95A)
- Aluminum Core
- 2 Ball Bearings

SINGLE STAGE CUSHION

- 50°
- 65°
- 75°



*represents shore hardness of rubber cushion

OPTIONS

- **-WEU:**
Antistatic
 $10^8 \sim 10^9 \Omega \text{ cm}$
- **-FRD:**
High Temperature
Up to $250^\circ \text{C}/480^\circ \text{F}$
- **-FBL:**
Black Color



Quality that begins on the inside and works its way out.

- Bob Moawad

GDSP

S E R I E S

Materials & Specifications

Top plate: Pressed steel

Frame: Strong welded frame

Spring: Special rubber

Finish: Zinc plated

Capacity: 360 - 450 kg

Temperature: (-10°)~90°C

Manual or Tow

Speed: Up to 20 km/h

Wheel Diameter Options

150 mm (6") - 200mm (8")



GDSP-150-ARF-MUD-65

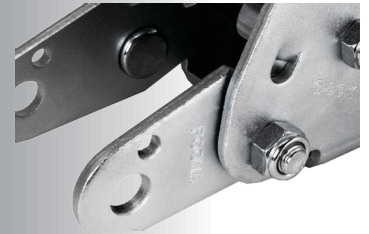


GDSP-200-ASF-MUD-75



GDSP-150-BRF-MUD-65

RIG. The GDSP possesses a strong welded frame to endure challenging environments and tough usage. It is fully capable as a towable caster up to 20 km/h under power. This 2-part rig is firm and stable under heavy loads, while lending the confident assurance of maintaining ground contact while absorbing vibration.



BOLTED AXLE. A super strong bolt axle structure employs top hat spacers between the wheel and legs. To hold the wheel tight and to prevent poor performance, a nylon locking nut is secured to the axle.

BEARING SPACER. To prolong the life of the wheel bearings, GDSP calls on an aluminum spacer to ensure there is no play or rattling. Installed on the bolted axle between the two bearings, it enables the wheel to rotate smoothly, to drastically reduce noise and maintain precision performance.



WHEEL. Blue polyurethane wheels are bonded to an aluminum core utilizing two ball bearings. The tread is tapered to skillfully handle curves with a larger wheel radius near the flange.

RUBBER CUSHION. Fine shock absorption functionality is achieved through a specially designed, dual stage rubber cushion with unique features. This unique design eliminates the loud noise typical of moving an empty cart, while offering superior protection when loaded with items such as semiconductors, specialized equipment and other sensitive objects. GDSP is the reliable solution to run on a wide range of applications.



FOOT MASTER®

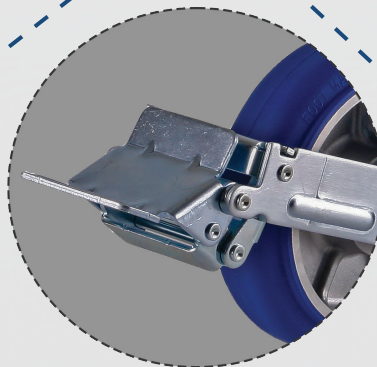
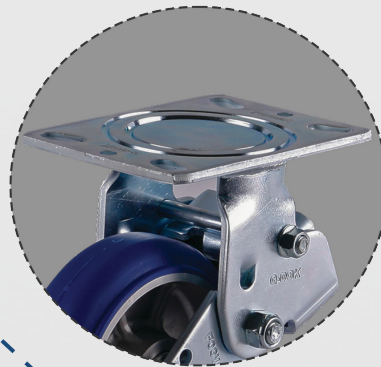
SHOCK ABSORBING CASTERS

GDSP Series - Mounting Options & Plate Configurations

SWIVEL

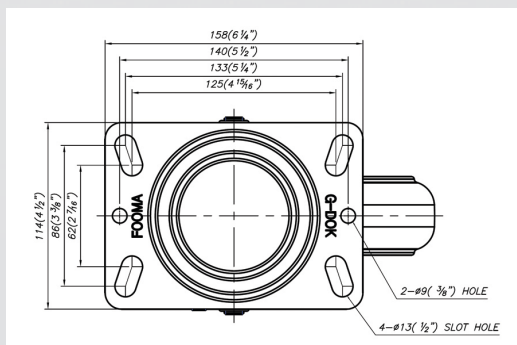


RIGID

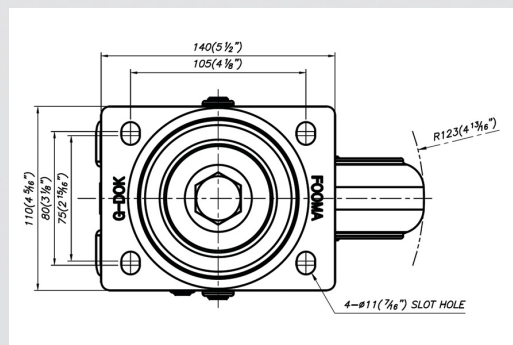


STEEL-TOP BRAKE SYSTEM

Available on Swivel and Rigid



-PUS



-PEU

**AVAILABLE
FOR:**

150

200

FOOT MASTER®

SHOCK ABSORBING CASTERS

GDSP Series - Wheel Type | Cushion | Options

WHEEL TYPE: MUD

- Cast Polyurethane (95A)
- Aluminum Core
- 2 Ball Bearings



DUAL STAGE CUSHION

- 50°
- 65°
- 75°



*represents shore hardness of rubber cushion

OPTIONS









- **-2DL:**
2 Directional Lock
150 ~ 200
- **-4DL:**
4 Directional Lock
150 ~ 200
- **-WEU:**
Antistatic
 $10^8 \sim 10^9 \Omega\text{cm}$

FOOT MASTER®








SHOCK ABSORBING CASTERS

Product Numbers











SWIVEL	BRAKE	RIGID	BRAKE	WHEEL	RUBBER	 [mm]	 [mm]	 [Kg]	 [mm]	 [mm]	 [mm]	 [mm]	 [mm]
GDS-100-ASF	GDS-100-BSF	GDS-100-ARF	GDS-100-BRF	LUD	65° 75°	100	30	100	160-20	45~53	73x73	58x58	7
GDS-125-ASF	GDS-125-BSF	GDS-125-ARF	GDS-125-BRF	LUD	65° 75°	125	30	100	187-20	45~54	73x73	58x58	7
GDS-130-ASF	GDS-130-BSF	GDS-130-ARF	GDS-130-BRF	HUD	65° 75°	130	40	350	200-30	36~50	95x95	70x70	11
GDS-150-ASF	GDS-150-BSF	GDS-150-ARF	GDS-150-BRF	HUD	65° 75°	150	40	350	230-30	36~50	95x95	70x70	11
GDS-200-ASF	GDS-200-BSF	GDS-200-ARF	GDS-200-BRF	HUD	65° 75°	200	40	350	270-35	55~76	95x95	70x70	11



SWIVEL	BRAKE	RIGID	BRAKE	WHEEL	RUBBER	 [mm]	 [mm]	 [Kg]	 [mm]	 [mm]	 [mm]	 [mm]
GDS-100-ASS	GDS-100-BSS	GDS-100-ARS	GDS-100-BRS	LUD	65° 75°	100	30	100	160-20	45~53	M12x1.75P	18
GDS-125-ASS	GDS-125-BSS	GDS-125-ARS	GDS-125-BRS	LUD	65° 75°	125	30	100	187-20	45~54	M12x1.75P	18
GDS-130-ASS	GDS-130-BSS	GDS-130-ARS	GDS-130-BRS	HUD	65° 75°	130	40	350	200-30	36~50	M16x2.0P	24
GDS-150-ASS	GDS-150-BSS	GDS-150-ARS	GDS-150-BRS	HUD	65° 75°	150	40	350	230-30	36~50	M16x2.0P	24
GDS-200-ASS	GDS-200-BSS	GDS-200-ARS	GDS-200-BRS	HUD	65° 75°	200	40	350	270-35	55~76	M16x2.0P	24



SWIVEL	BRAKE	RIGID	BRAKE	WHEEL	RUBBER	 [mm]	 [mm]	 [Kg]	 [mm]	 [mm]	 [mm]	 [mm]	 [mm]
GDSP-150-ASF	GDSP-150-BSF	GDSP-150-ARF	GDSP-150-BRF	MUD	65°	150	48	360	202-14	48~53	158x114	133x86	13
GDSP-200-ASF	GDSP-200-BSF	GDSP-200-ARF	GDSP-200-BRF	MUD	75°	200	48	450	253-15	65~75		125x62	
GDSP-150-ASF-PEU	GDSP-150-BSF-PEU	GDSP-150-ARF-PEU	GDSP-150-BRF-PEU	MUD	65°	150	48	360	202-14	48~53	140x110	105x80	11
GDSP-200-ASF-PEU	GDSP-200-BSF-PEU	GDSP-200-ARF-PEU	GDSP-200-BRF-PEU	MUD	75°	200	48	450	253-15	65~75		105x75	

FAMILY OF TOP QUALITY CASTERS



AGV CASTERS



MEDIUM DUTY CASTERS



LEVELING CASTERS



SHOCK ABSORBING CASTERS



COMPACT CASTERS



HEAVY DUTY CASTERS

FOOT MASTER designs, engineers and manufactures casters and wheels that address industry specific performance gaps.

From our global headquarters in South Korea, engineers are striving to develop the best caster products in the world. This pursuit of perfection starts with an intense focus to serve customers and solve problems.

 **G-DOK INDUSTRIES**

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