FOOT MASTER®





SMART SOLUTION FOR HARSH ENVIRONMENTS AND EASY LEVELING SET

the pride of top quality



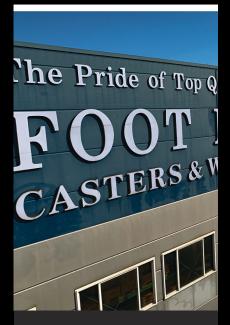
DESIGN.

An engineering response to a strategic question balancing form and function.



MANUFACTURE.

Precision engineering with advanced technology reflects superb craftmanship.



SOLUTION.

The elimination of a problem to deliver successful outcomes and satisfaction.

the first step of innovation

CURIOUS OBSERVATION

CALIBRATED
QUESTIONS

ENGINEERED

Innovation is the process of assessing a situation, determining what is working and what is not, intently listening to customers and harnessing the creative ability to introduce a better way.

Integrated ratcheting system improves height adjustability in leveling casters



Advanced technology introduces superior shock absorbing with special rubber cushion



Self-aligning, dual swivel casters reduce drive motor overload and minimize offset



Field-reversible brake, forged steel, and double thrust bearings used to optimize heavy loads



Premium drive wheels are customized for superior performance



the original leveling caster

The badge of "original" can only be worn by the originator. As FOOT MASTER® engineers debuted the GD Series in 1989, the world was introduced to an ingenious concept. This multifunctional product combined the mobility of a caster, the adjustability of a level mount, and the stability of a foot pad. This remarkable innovation empowers companies to improve operations, efficiency and safety.

Moving an application into a desired location, engaging a typical wheel brake, then using a traditional level mount to set the unit in the exact position, is easier said than done. FOOT MASTER® leveling casters offer a smart solution. Once moved to the spot of operation, the anti-vibration pad is lowered and the caster wheel is lifted off the ground, making the application completely stationary.

The GD Series leveling caster profile is integral to its function. A thick aluminum frame is used to achieve the combination of being both strong and lightweight. It is designed to be compact, yet boast incredible load capacity. The configuration of the ORIGINAL has definitively proven itself to be the most optimal shape, and is recognized as the leader in design and functionality.

Defined as 'something serving as a model or basis for imitations or copies', the word original belongs to the GD Series. Countless copies and imitations seek to benefit using FOOT MASTER® leveling casters as a recipe for success, but they lack the proper ingredients. Each ingredient in the recipe has a specific function, and as one is substituted for another, the final outcome is altered.

What's the missing ingredient? The secret sauce? It's engineers obsessed with creating the best caster products in the world, like the GD Series. With its iconic ivory colored frame and orange thumbwheel, the invention of the ORIGINAL leveling caster set the standard for performance, capability and dependability. It is engineered to exceed expectations, while being manufactured by expert craftsmen seeking the pride of top quality.

stainless steel properties





CORROSION RESISTANT

Due to the chromium content that stainless steel has, it has an excellent resistance to corrosion.



HEAT RESISTANT

Stainless steel is also best utilized in high temprerature environments because of its high heat resistance qualities.



DUCTILE

The ductility feature of stainless steel makes it easy to mend it to any shape.



DURABLE

It is strong enough to hold a heavy load that's why it can last for a long time.

applications











components



stainless steel frame

At the heart of every SGDN product is an optimally designed frame made of cast stainless steel. Liquid A2 stainless steel (304 austenitic) is poured into a mold and cooled using constant temperatures for a precise casting. Electrolytic polishing removes tiny burrs and increases surface brilliance.

stainless steel plate

Crafted with forged stainless steel, SGDN is equipped with a mounting plate to help provide strength where it is needed most. Forging enhances the existing qualities of SS, empowering the mounting plate to easily handle the transfer of forces through the caster and application.





stainless steel bearing raceways

To prevent scoring to the frame by stainless steel ball bearings rotating under radial and axial loads, SGDN utilizes two hardened SS bearing raceway seats in the upper and lower swivel section. This mitigates deviation, resulting in prolonged performance and extended product life.

stainless steel wheel axle

High strength SS is used to form the bolted wheel axle structure. Strict tolerances are applied to achieve a precise axle diameter, and to ensure it is perfectly balanced, which makes SGDN easy to roll while restricting axle bore elongation. All components are completely corrosion resistant.





stainless steel leveling shaft

The threaded leveling shaft is made of forged SS, which is an arduous and costly process. This ensures maximum longevity and consistent performance, as forging SS achieves close dimensional tolerances and increased strength.

nbr foot pads

Engineers use a proprietary blend of nitrile-butadiene rubber (NBR) to offer a foot pad with the perfect balance of flexibility and stability. This material shows higher strength, greater resistance to oils, and lower permeability to gases. Pressed into the foot pad, a SS insert is tapped for the threaded leveling shaft.





nylon 66 wheel

Made of two monomers each containing six carbon atoms, hexamethylenediamine and adipic acids, nylon 66 is used for its tensile strength and high abrasion resistance. It has outstanding dimensional stability and compressive strength, and is known for its low coefficient of friction under heavy loads.

mounting configurations

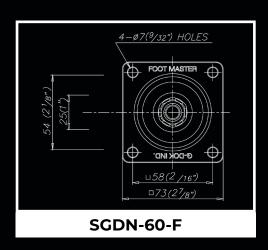


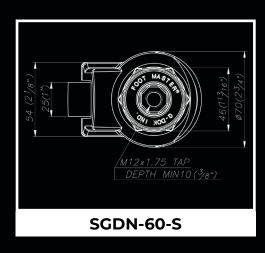
STEM MOUNT

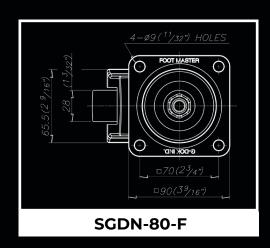


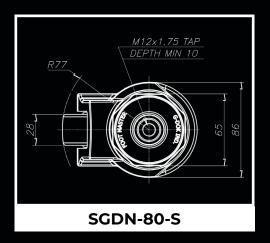
TOP PLATE











wheel types & foot pads

wheel types



NYN WHEEL

Material: Nylon 66 *Hardness:* Shore D70 *Temp:* 14°F to 194°F



MCN WHEEL

Material: MC Nylon *Hardness:* Shore D80 *Temp:* 14°F to 194°F

foot pads



NBR FOOT PAD

Special blend synthetic rubber

*Proprietory blend



CUR FOOT PAD

Cast polyurethane

product numbers

3.5x3.5

2.7x2.7

0.35

ပ	SWIVEL	WHEEL TYPE		mm	8			mm	mm	mm
	SGDN-60-F	NIVA I	50	25	280	82+10	38	73x73	58x58	7
ข	SGDN-80-F	NYN	63	28	550	103+15	46	90x90	70x70	9
]ع	SGDN-60-F	MCN	49	25	280	82+10	38	73x73	58x58	7
	SGDN-80-F	MCN	62	28	550	103+15	46	90x90	70x70	9
רם	SWIVEL	WHEEL TYPE	in	in	lbs	in	in	in	in	in
ָ פּ	SGDN-60-F	NYN	1.97	0.98	617	3.2+0.4	1.5	2.9x2.9	2.3x2.3	0.27
<u> </u>	SGDN-80-F		2.5	1.10	1212	4.0+0.6	1.8	3.5x3.5	2.7x2.7	0.35
Ø	SCDN-60-F		19	0.98	617	32+04	15	29v29	2 3v2 3	0.27

1212

4.0+0.6

MCN

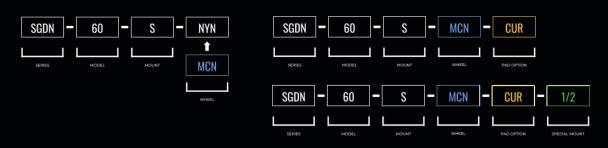
2.4

1.10

SGDN-80-F

ပ	SWIVEL	WHEEL TYPE	mm	mm	Ka Ka			mm	mm	
t r	SGDN-60-S	NIVAL	50	25	280	82+10	38	M12X1.75P	18	
a	SGDN-80-S	NYN	63	28	550	103+15	46		16	
Ε	SGDN-60-S	MCN	49	25	280	82+10	38	M12x1.75P	18	
	SGDN-80-S	SGDN-80-S	62	28	550	103+15	46		16	
ard	SWIVEL	WHEEL TYPE	in	in	lbs	in	in	in	in	
<u>ס</u>	SGDN-60-S	NYN	1.97	0.98	617	3.2+0.4	1.5	M0.47x0.07P	0.7	
	SGDN-80-S		2.5	1.10	1212	4.0+0.6	1.8		0.6	
	SGDN-60-S	MCN	1.9	0.98	617	3.2+0.4	1.5	M0.47x0.07P	0.7	
S	SGDN-80-S		2.4	1.10	1212	4.0+0.6	1.8		0.6	

PRODUCT CODE SYSTEM:



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

FOOT MASTER® Casters & Wheels

FOOT MASTER Global Headquarters 27-50 Bugok Industrial Complex Road 4 Songak-eup, Dangjin-si, Chungcheongnam-do 31721 SOUTH KOREA +82-41-357-8390

FOOT MASTER North American Office 1165 Electric Avenue Wayland, MI 49348 UNITED STATES 866-362-3226

info@footmastercasters.com