



Guide for selection of wheels: AGV casters

- Cast polyurethane (Shore A90) - Aluminum core - Two ball bearings - Cast polyurethane (Shore A95) - Aluminum core - Two ball bearings - Cast polyurethane (Shore A95) - Aluminum core - Two ball bearings - Cast polyurethane (Shore A95) - Aluminum core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings - Cast polyurethane (Shore A96) - Steel core - Two ball bearings	Image	Series	Description	Wheel code	Wheel dia mm	Wheel width mm	Axle bore mm	Hub length mm	Load capacity Kg	Bearing type
HUD	0	HUD	(Shore A90) - Aluminum core	HUD-75-30	75	30	8	30	100	608 ZZ
- Aluminum core - Two ball bearings HUD-75-48 75 48 15 51 200 6202 ZZ HUD-75-30 75 30 15 30 125 6202 ZZ HUD-100-30 100 30 15 30 155 6202 ZZ HUD-125-35 125 35 15 30 155 6202 ZZ HUD-150-40 150 40 15 40 315 6202 ZZ NUD-75-30 75 30 15 30 155 6202 ZZ RUD-150-40 150 NUD-150-40 150 NUD-150-30 150 30 155 6202 ZZ NUD-150-40 150 NUD-150-30 150 30 155 6202 ZZ NUD-150-30 150 150 150 150 150 150 150 1		HID	(Shore A95)	HUD-75-23	75	23	15	23	100	6202 ZZ
- Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings - Cast polyurethane (Shore A95) - Steel core - Two ball bearings		- Aluminum co		HUD-75-48	75	48	15	51	200	6202 ZZ
(Shore A95) - Steel core - Two ball bearings HUD-100-30				HUD-75-30	75	30	15	30	125	6202 ZZ
- Steel core - Two ball bearings HUD-125-35 HUD-150-40 125 35 15 35 220 6202 ZZ HUD-150-40 150 40 15 40 315 6202 ZZ NUD-75-30 75 30 15 30 15 6202 ZZ NUD-100-30 NUD-100-30 NUD-100-30 NUD-125-35 125 35 15 36 220 6202 ZZ NUD-125-35 125 35 15 36 200 6202 ZZ NUD-125-35 NUD-125-35 125 35 15 36 200 6202 ZZ				HUD-100-30	100	30	15	30	155	6202 ZZ
NUD-75-30 75 30 15 30 125 6202 ZZ - Cast polyurethane (Shore A95) - Steel core - Two ball bearings NUD-125-35 125 35 15 35 220 6202 ZZ		HUD		HUD-125-35	125	35	15	35	220	6202 ZZ
- Cast polyurethane (Shore A95) - Steel core - Two ball bearings NUD-100-30 100 30 15 30 155 6202 ZZ NUD-125-35 125 35 15 35 220 6202 ZZ				HUD-150-40	150	40	15	40	315	6202 ZZ
NUD (Shore A95) - Steel core - Two ball bearings NUD-100-30 100 30 15 30 155 6202 ZZ NUD-125-35 125 35 15 35 220 6202 ZZ				NUD-75-30	75	30	15	30	125	6202 ZZ
- Steel core - Two ball bearings NUD-125-35 125 35 15 35 220 6202 ZZ		VII ID		NUD-100-30	100	30	15	30	155	6202 ZZ
NUD-150-40 150 40 15 40 315 6202 ZZ		NUD		NUD-125-35	125	35	15	35	220	6202 ZZ
				NUD-150-40	150	40	15	40	315	6202 ZZ



GAPL series

Excellent Durability for Light Load

Why should we select FOOT MASTER® AGV casters – GAPL?



Unlike carts run by people on the production line, AGVs run continuously on behalf of people for 24 hours everyday. In an environment where an AGV is running for 24 hours, it can stop instantaneously or have trouble due to the durability problem of wheels, which can lead to work loss or safety accidents. After consulting with many AGV customers, G-DOK Industries has launched the most durable caster - GAPL, FOOT MASTER® AGV caster - GAPL maximizes AGV operation, ensuring cost savings and increased productivity.

Major features

GAPL has pride in excellent durability in the AGV environment by applying bearing steel with higher strength than general structural steel in the swivel head. In addition, GAPL shows very soft motion via minimization of friction through tolerance control of the swiveling parts.



QAPL using polyurethane materials with excellent repulsive elasticity minimizes the slipping phenomenon that can happen during AGV start/stop. In addition, the repulsive elasticity catches fine shocks coming from a damaged floor.

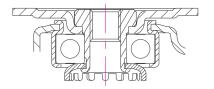


GAPL series











Brackets: Pressed steel plate, precision ball bearing in the swivel head which is advantageous to smooth swiveling and excellent durability, strong integrated pressed steel frame, bolted wheel axle structure **Surface Treatment:** Powder coating, zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Wheel type	mm	mm	Kg Kg	₩ mm	mm	mm	mm	mm
GAPL-75-ASF	HUD	75	30	100	113	40	95x64	78x45 72x45	9

Options

	0			
Code Suffix	HUD			
Description	Cast PU(A90)			
Available for	75			



GAPH series

Prompt swiveling and Low Height for Medium Load

Why should we select FOOT MASTER® AGV casters – GAPH?



Major features

GAPH guarantees fast swivel and durability. Two rows of bearings in the swivel head makes the caster swivel smoothly, but the two rows of bearings constantly wears each contacting part. The 4 sheets of specially hardened upper and lower protection sheet applied to the GAPH satisfies both fast swivel and durability by protecting the swiveling part from wear.



GAPH was designed to endure heavy load despite its small wheel size by applying polyurethane with hardness of Shore A95. In addition, the polyurethane wheel with good repulsive elasticity protects AGVs from instantaneous shocks coming from damaged floors,

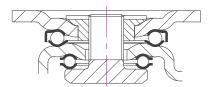


GAPH(D) series











Brackets: Pressed steel plate, double ball bearing with four hardened bearing seats in the swivel head which is advantageous to rapid swiveling and excellent durability, strong integrated pressed steel frame, botted wheel axle structure

Surface Treatment: Powder coating, zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Wheel type	mm	mm	Kg Kg	mm •	mm	mm	mm	mm
GAPH-75-ASF	HUD	75	48	200	115	35	100×100	78x78	10.5
GAPHD-75-ASF	HUD	75	23x2	200	115	35	1000100	64x64	10.5

Options

Code Suffix	HUD			
Description	Cast PU(A95)			
Available for	75			



GAGD series

General AGV Purpose and Dual Wheels for Heavy Load

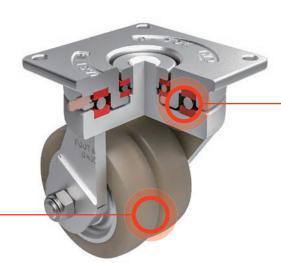
Why should we select FOOT MASTER® AGV casters – GAGD?



AGVs carrying heavy weight are not easy to change direction. In addition, AGVs swing as much as the offset of the caster when changing directions. This swing phenomenon appears more prominent as the weight is heavier, and this swing phenomenon leads AGVs stop away from the regular position. FOOT MASTER® AGV caster – GAGD endures heavy weight, and provides the best solution by setting an optimal offset which is smaller than the offset of a general caster to prevent abrupt stops when changing direction.

Major features

QAGD structure adopts two rows of thrust bearings to raise the swiveling power and endure very heavy weight. This guarantees durability for AGVs to run long despite heavy weight.



As the weight becomes heavier, AGV motion become more dull. For changing directions even with small force, the dual wheels structure is essential, not optional. GAGD uses high-elastic polyurethane wheels showing the highest performance in heavy weight AGV environments.

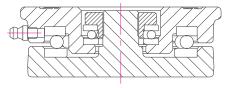


GAGD series











Brackets: Forged steel plate, double thrust bearing in the swivel head to optimize the heavy load, grease nipple, strong welded frame, bolted wheel axle structure

Surface Treatment: Zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Wheel type	mm	mm	Kg Kg	mm	mm	mm	mm	mm
GAGD-75-ASF	HUD	75	30x2	250	123	30	112x112	92x92	9
GAGD-100-ASF	HOD	100	30x2	310	150	30	IIZXIIZ	92,32	9
GAGD-125-ASF	HUD	125	35x2	440	175	33	145x145	120×120	11
GAGD-150-ASF	ПОО	150	40x2	630	200	35	140x140	120x120	11
GAGD-75-ASF	NUD	75	30x2	250	123	30	112x112	92x92	9
GAGD-100-ASF	NOD	100	30x2	310	150	30	IIZXIIZ	92x92	9
GAGD-125-ASF	NIID	125	35x2	440	175	33	1.457.1.45	120×120	11
GAGD-150-ASF	NUD	150	40x2	630	200	35	145x145	120X120	11

Options

Code Suffix	HUD	NUD		
Description	Cast PU(A95)	Cast PU(A95)		
Available for	75 ~ 150	75 ~ 150		

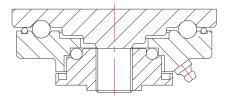


GXTA series



RoHŠ







Brackets: Forged steel plate, double ball bearing with hardened treatment in the swivel head which is clearly advantageous to excellent durability, grease nipple, strong welded frame, bolted wheel axle structure

Surface Treatment: Powder coating, zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Rigid	Wheel type	mm	mm	Kg Kg	mm *	mm	mm	mm	mm
GXTA-100-ASF	GXTA-100-ARF	HUQ	100	50	400	156	35	140x112	110x75 105x80	11

Options

	6			
Code Suffix	HUQ			
Description	Cast PU(A95)			
Available for	100			

The Pride of Top Quality



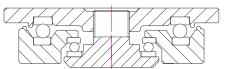
GXTD series



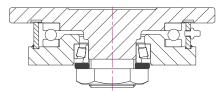
400~3,500kg







GXTD(110~200)



GXTD(250~300)



head to optimize heavy load(250/300 series: thrust bearing and taper roller bearing), grease nipple, strong welded frame, bolted wheel axle

Surface Treatment: Powder coating, zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Rigid	Wheel type	mm	mm	Kg Kg	mm *	mm	mm	mm	mm
GXTD-110-ASF	GXTD-110-ARF		110	29x2	400	156	30	112x112	88x88	9
GXTD-150-ASF	GXTD-150-ARF		150	40x2	600	200	35	145x130	115×100	11
GXTD-200-ASF	GXTD-200-ARF	HUD	200	65x2	1,500	265	50	210x210	170×170	17
GXTD-250-ASF	GXTD-250-ARF		250	78x2	3,200	330	70	255x215	210x160	18
GXTD-300-ASF	GXTD-300-ARF		300	78x2	3,500	390	80	2000210	210X100	10

Options

Code Suffix	HUD			
Description	Cast PU(A95)			
Available for	110 ~ 300			



GASD series

Spring and Dual Wheels for Heavy Load

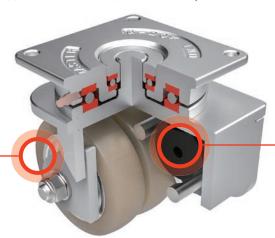
Why should we select FOOT MASTER® AGV casters – GASD?



Even a smooth looking floor is not really flat. AGVs are usually equipped with 4 casters, one of which is often not in contact with the floor. During a change in direction, AGVs lose their balance if one caster which has not been in contact with the floor suddenly touches the floor. Therefore, AGVs deviate from their regular position, which generates a abrupt stop. FOOT MASTER® AGV caster — GASD provides the best solution to remove the deviation situation due to swinging.

Major features

The advantage of GASD with a shock—absorbing function is that it can absorb even repeated fine shocks generated during movement on an uneven floor. The special rubber applied to GASD is made of rubber material different from the general steel coil springs to absorb fine vibrations from the floor.



QASD using special rubber provides 10mm of spring section. In the 10mm spring section, AGVs always run in contact with the floor to remarkably reduce the possibility of abrupt stops generated during a change in direction.

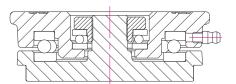


GASD series











Surface Treatment: Zinc plated

* Recommended Load = Load Cap. \times 3

Swivel	Wheel type	mm	mm	Kg Kg	mm	mm	mm	mm	mm
GASD-75-ASF	HUD	75	30x2	250	130-10	30	112x112	92x92	9
GASD-100-ASF	HUD	100	30x2	310	160-10	30	IIZXIIZ	92x92	9
GASD-125-ASF	LILID	125	35x2	440	185-10	33	145x145	120x120	4.4
GASD-150-ASF	HUD	150	40x2	630	210-10	35	145x145	1200120	11
GASD-75-ASF	NILID	75	30x2	250	130-10	30	112x112	02402	0
GASD-100-ASF	NUD	100	30x2	310	160-10	30	IIZXIIZ	92x92	9
GASD-125-ASF	NUD	125	35x2	440	185-10	33	145x145	120x120	11
GASD-150-ASF	NUD	150	40x2	630	210-10	35	140X140	120X120	

Options



Code Suffix	HUD	NUD		
Description	Cast PU(A95)	Cast PU(A95)		
Available for	75 ~ 150	75 ~ 150		

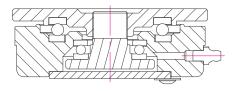


GXTS series



RoHS







Brackets: Steel plate, double thrust bearing in the swivel head to optimize heavy load, grease nipple, strong welded frame, minute shock absorption function and constant contact function to the floor with special rubber, bolted wheel axle structure

Surface Treatment: Powder coating, zinc plated

* Recommended Load = Load Cap. \times 3

Swivel	Wheel type	mm	mm	Kg Kg	mm •	mm	mm	mm	mm
GXTS-100-ASF	HUQ	100	50	400	169–14	35~39	112x112	88x88	9

Options

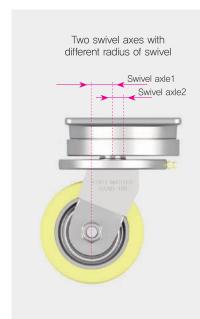
	6			
Code Suffix	HUQ			
Description	Cast PU(A95)			
Available for	100			



GAAD series

Self-Aligned and Dual Wheels for Heavy Load

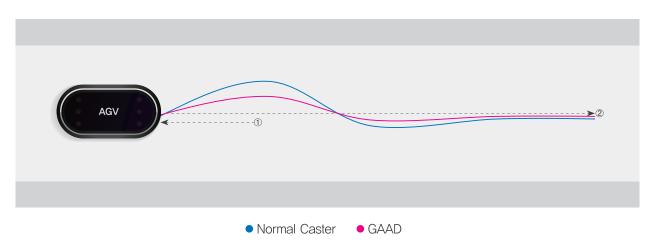
Why should we select the FOOT MASTER® AGV casters – GAAD?



GAAD applied two rotation axes with different rotation radius and has the function to automatically optimize the radius of rotation by aligning the rotation axis on its own according to the moving direction in forward/backward motion.

The movement of AGVs is affected by the caster offset. If the offset is too long, an AGV can swing, causing it to deviate from the designated path. And if the offset is too short, the drive motor is overloaded. In particular, many AGV engineers are struggling to solve this swinging problem for AGVs which inevitably require reciprocation. The patented automatic aligning function of GAAD is the best AGV caster to solve both problems simultaneously, such as the swinging of AGVs and the overloading of drive motors.

Moving direction of AGV between a Normal Caster VS GAAD



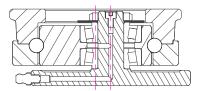


GAAD series











Brackets: Forged steel plate, taper roller bearing with hardened treatment in the swivel head which is advantageous to excellent durability(125/150 series: double thrust bearing), grease nipple, strong welded frame, self-aligned function with two swiveling axes with different swiveling radii, bolted wheel axle structure

Surface Treatment: Zinc plated

* Recommended Load = Load Cap. \times 3

Swivel	Wheel type	mm	mm	Kg Kg	mm	mm	mm	mm	mm
GAAD-75-ASF	HUD	75	30x2	250	130	10~30	112x112	92x92	9
GAAD-100-ASF	HUD	100	30x2	310	160	10~30	IIZXIIZ	92,592	9
GAAD-125-ASF	HUD	125	35x2	440	190	15~33	145x145	120x120	11
GAAD-150-ASF	HUD	150	40x2	630	215	15~35			
GAAD-75-ASF	NUD	75	30x2	250	130	10~30	440 440	92x92	9
GAAD-100-ASF	NOD	100	30x2	310	160	10~30	112x112	92,92	9
GAAD-125-ASF	NUD	125	35x2	440	190	15~33	145x145	120v120	11
GAAD-150-ASF	NUD	150	40x2	630	215	15~35		120x120	11

Options



Product movie

	6			
Code Suffix	HUD	NUD		
Description	Cast PU(A95)	Cast PU(A95)		
Available for	75 ~ 150	75 ~ 150		

The Pride of Top Quality

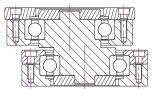


GSAD series











Brackets: Steel plate, double precision ball bearing in the swivel head to optimize heavy load, grease nipple, strong welded frame, self-aligned function with two swiveling axes with different swiveling radii, bolted wheel axle structure

Surface Treatment: Powder coating, zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Wheel type	mm	mm	Kg Kg	₩ mm	mm	mm	mm	mm
GSAD-110-ASF	HUD	110	29x2	400	190	15~35	112x112	92x92	9
GSAD-150-ASF	HUD	150	40x2	600	235	15~35	145x130	115x100	11

Options

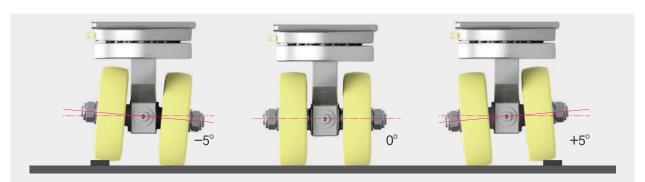
Code Suffix	HUD			
Description	Cast PU(A95)			
Available for	110 ~ 150			



GATD series

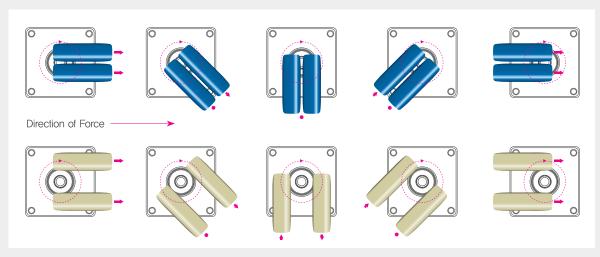
Tilting & Dual Wheels for Heavy Load(Heavy load)

Why should we select FOOT MASTER® AGV casters – GATD?



1 The shaft of GATD has a tiling structure that tilts freely in the range of \pm 5° from its central axis according to the flatness of the floor. This freedom ensures that GATD always keeps contact with the floor, causing smooth AGV movement and protection of the loaded cargo when changing directions.

Rolling directions of a general dual-wheel VS the GATD dual-wheel



O2 Unlike the general dual—wheel caster, GATD has a structure that the two wheels are separated from each other. The two wheels in the dual—wheel caster roll in the opposite direction to each other during a change in direction. This is called self—compensation effect, as it reduces caster offset automatically. FOOT MASTER® GATD has a bigger self—compensation effect than the general dual—wheel caster to prevent AGVs from deviating from the line.

The Pride of Top Quality

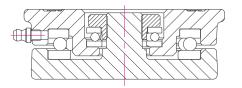


GATD series











Brackets: Forged steel plate, double thrust bearing in the swivel head to optimize heavy load, grease nipple, strong welded frame, tilting function to maintain contact with uneven floor, bolted wheel axle structure

Surface Treatment: Zinc plated

* Recommended Load = Load Cap. × 3

Swivel	Wheel type	mm	mm	Kg Kg	₩	mm	mm	mm	mm
GATD-75-ASF	- HUD	75	30x2	250	123	30	112x112	92x92	9
GATD-100-ASF	שטח	100	30x2	310	150	30	TIZXIIZ	92x92	9
GATD-125-ASF	HUD	125	35x2	440	175	33	145x145	120×120	11
GATD-150-ASF	HUD	150	40x2	630	200	35		120X120	
GATD-75-ASF	NILID	75	30x2	250	123	30	112x112	92x92	0
GATD-100-ASF	NUD	100	30x2	310	150	30	IIZXIIZ	92x92	9
GATD-125-ASF	NILID	125	35x2	440	175	33	1.45,:1.45	100,100	4.4
GATD-150-ASF	NUD	150	40x2	630	200	35	145x145	120x120	11

Options

Code Suffix	HUD	NUD		
Description	Cast PU(A95)	Cast PU(A95)		
Available for	75 ~ 150	75 ~ 150		