



1163 Series Eccentric Caster

- Der Sheng's Eccentric Caster is a highly engineered caster designed to reduce the force needed to push or pull carts. The swivel caster design features with two precision machined offsetting ball races in a compact assembly to minimize the caster lock up issue happened from time to time. A typical swivel assembly in a caster has only one pivot point. The Der Sheng's Eccentric caster essentially provides a second pivot point that reduces the startup force to get the cart moving when lock up in present. By minimizing the lock up issue and reducing the startup force, Der Sheng's Eccentric Caster is especially fit for application like AMR/AGV and Cart/Equipments carrying extra heavy load while requiring effortless maneuverability.

Load
200-1100 kg



» Features



Metal Thread Guard (optional)



Plastic Thread Guard (optional)



Swivel W/Center Lock Brake



Different PU
Tread hardness available

» Wheel Options

PU on Cast



PU on AL Core



NBR Rubber on Cast



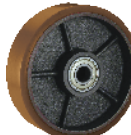
Nylon



WMRC



QPU



ZQPU (Dual Wheels)



Ball Bearing

VQPU



EPU



Non-marking Rubber on Cast



PU on Cast (2050A/2050B)



EQPU



VPU



XPU on Iron Core



Recilcent rubber on AL Core



Non - marking NBR Rubber
on Cast



QPU on AL Core

**» TOP PLATE SIZE AND BOLT HOLE SPACING**

Caster Size	Top Plate Size	Bolt Hole Spacing	Attaching Bolt Size
4"	90 x 120 mm (3-17/32" x 4-23/32")	60 x 90 mm (2-3/8" x 3-17/32")	11 mm (7/16")
5,6,8"	110 x 140 mm (4-11/32" x 5-1/2")	75 x 110 mm (2-15/16" x 4-11/32")	12 mm (1/2")

 Diameter×Width	 Load	 Material	Item No.			 Bearing	 Overall Height	 Swivel radius
			Fixed	Swivel	Brake			
100mm x 32mm (4"x1-1/4")	250 kgs (550 lbs)	Nylon	1163-04-07-1	1163-04-07-2	1163-04-07-4	Ball Bearing	147mm (5-25/32")	Swivel 116mm Swivel W/Center Lock Brake 116mm
100mm x 34mm (4"x1-3/8")	335 kgs (735 lbs)	QPU (Round)	1163-04-80-1	1163-04-80-2	1163-04-80-4			
	385 kgs (845 lbs)	QPU (Flat)	1163-04-80-1	1163-04-80-2	1163-04-80-4			
100mm x 36mm (4"x1-7/16")	250 kgs (550 lbs)	PU on Cast	1163-04-33-1	1163-04-33-2	1163-04-33-4			
	250 kgs (550 lbs)	PU on AL Core (Round)	1163-04-108-1	1163-04-108-2	1163-04-108-4			
	300 kgs (660 lbs)	QPU on AL Core (Round)	1163-04-87-1	1163-04-87-2	1163-04-87-4			
100mm x 38mm (4"x1-1/2")	200 kgs (440 lbs)	NBR Rubber on Cast	1163-04-04-1	1163-04-04-2	1163-04-04-4			
	200 kgs (440 lbs)	Non-marking Rubber on Cast	1163-04-11-1	1163-04-11-2	1163-04-11-4			
	200 kgs (440 lbs)	Non-marking NBR Rubber on Cast	1163-04-90-1	1163-04-90-2	1163-04-90-4			
100mm x 40mm (4"x1-9/16")	275 kgs (600 lbs)	PU on AL Core (Round)	1163-04-108-1	1163-04-108-2	1163-04-108-4			
	200 kgs (440 lbs)	Recilent rubber on AL Core	1163-04-89-1	1163-04-89-2	1163-04-89-4			
	325 kgs (715 lbs)	QPU on AL Core (Round)	1163-04-87-1	1163-04-87-2	1163-04-87-4			
100mm x 46.5mm (4"x1-13/16")	335 kgs (735 lbs)	ZQPU (Dual Wheels)	1163-04-101-1	1163-04-101-2	1163-04-101-4			
125mm x 40mm (5"x1-9/16")	340 kgs (750 lbs)	PU on Cast	1163-05-33-1	1163-05-33-2	1163-05-33-4	Ball Bearing	170mm (6-11/16")	Swivel 128.5mm Swivel W/Center Lock Brake 128.5mm
	300 kgs (660 lbs)	Nylon	1163-05-07-1	1163-05-07-2	1163-05-07-4			
	300 kgs (660 lbs)	PU on AL Core (Round)	1163-05-108-1	1163-05-108-2	1163-05-108-4			
	350 kgs (770 lbs)	QPU on AL Core (Round)	1163-05-87-1	1163-05-87-2	1163-05-87-4			
	250 kgs (550 lbs)	NBR Rubber on Cast	1163-05-04-1	1163-05-04-2	1163-05-04-4			
	250 kgs (550 lbs)	Non-marking Rubber on Cast	1163-05-11-1	1163-05-11-2	1163-05-11-4			
	250 kgs (550 lbs)	Non-marking NBR Rubber on Cast	1163-05-90-1	1163-05-90-2	1163-05-90-4			
	450 kgs (990 lbs)	QPU (Round)	1163-05-80-1	1163-05-80-2	1163-05-80-4			
	500 kgs (1100 lbs)	QPU (Flat)	1163-05-80-1	1163-05-80-2	1163-05-80-4			
	340 kgs (750 lbs)	EPU (Round Shape)	1163-05-78-1	1163-05-78-2	1163-05-78-4			
	390 kgs (860 lbs)	EPU (Flat Shape)	1163-05-78-1	1163-05-78-2	1163-05-78-4			
	450 kgs (990 lbs)	EQPU (Round Shape)	1163-05-81-1	1163-05-81-2	1163-05-81-4			
	500 kgs (1100 lbs)	EQPU (Flat Shape)	1163-05-81-1	1163-05-81-2	1163-05-81-4			



 Diameter×Width	 Load	 Material	Item No.			 Bearing	 Overall Height	 Swivel radius
			Fixed	Swivel	Brake			
125mm x 50mm (5" x 2")	400 kgs (880 lbs)	PU on AL Core (Flat)	1163-05-108-1	1163-05-108-2	1163-05-108-4	Ball Bearing	170mm (6-11/16")	Swivel 128.5mm Swivel W/Center Lock Brake 128.5mm
	450 kgs (990 lbs)	QPU on AL Core (Flat)	1163-05-87-1	1163-05-87-2	1163-05-87-4			
125mm x 51mm (5" x 2")	450 kgs (990 lbs)	ZQPU (Dual Wheels)	1163-05-101-1	1163-05-101-2	1163-05-101-4			
150mm x 40mm (6"x1-9/16")	400 kgs (880 lbs)	Nylon	1163-06-07-1	1163-06-07-2	1163-06-07-4	Ball Bearing	197mm (7-3/4")	Swivel 153.5mm Swivel W/Center Lock Brake 153.5mm
	350 kgs (770 lbs)	NBR Rubber on Cast	1163-06-04-1	1163-06-04-2	1163-06-04-4			
	300 kgs (660 lbs)	Non-marking Rubber on Cast	1163-06-11-1	1163-06-11-2	1163-06-11-4			
	300 kgs (660 lbs)	Non-marking NBR Rubber on Cast	1163-06-90-1	1163-06-90-2	1163-06-90-4			
	400 kgs (880 lbs)	WMRC	1163-06-45-1	1163-06-45-2	1163-06-45-4			
150mm x 42mm (6"x1-5/8")	410 kgs (900 lbs)	PU on Cast	1163-06-33-1	1163-06-33-2	1163-06-33-4			
	400 kgs (880 lbs)	PU on AL Core (Round)	1163-06-108-1	1163-06-108-2	1163-06-108-4			
	450 kgs (990 lbs)	QPU on AL Core (Round)	1163-06-87-1	1163-06-87-2	1163-06-87-4			
	550 kgs (1200 lbs)	QPU (Round)	1163-06-80-1	1163-06-80-2	1163-06-80-4			
	600 kgs (1320 lbs)	QPU (Flat)	1163-06-80-1	1163-06-80-2	1163-06-80-4			
	500 kgs (1100 lbs)	VPU (Round)	1163-06-82-1	1163-06-82-2	1163-06-82-4			
	670 kgs (1475 lbs)	VQPU (Round Shape)	1163-06-83-1	1163-06-83-2	1163-06-83-4			
	800 kgs (1760 lbs)	XPU on Iron Core (Round)	1163-06-91-1	1163-06-91-2	1163-06-91-4			
	410 kgs (900 lbs)	EPU (Round)	1163-06-78-1	1163-06-78-2	1163-06-78-4			
	460 kgs (1010 lbs)	EPU (Flat)	1163-06-78-1	1163-06-78-2	1163-06-78-4			
	550 kgs (1200 lbs)	EQPU (Round)	1163-06-81-1	1163-06-81-2	1163-06-81-4			
	600 kgs (1320 lbs)	EQPU (Flat)	1163-06-81-1	1163-06-81-2	1163-06-81-4			
150mm x 50mm (6" x 2")	450 kgs (990 lbs)	PU on AL Core (Flat)	1163-06(50)-108-1	1163-06(50)-108-2	1163-06(50)-108-4			
	500 kgs (1100 lbs)	QPU on AL Core (Flat)	1163-06(50)-87-1	1163-06(50)-87-2	1163-06(50)-87-4			
150mm x 51mm	550 kgs (1210 lbs)	ZQPU (Dual Wheels)	1163-06-101-1	1163-06-101-2	1163-06-101-4			
180mm x 44mm (7" x 1-3/4")	450 kgs (990 lbs)	PU on AL Core (Round)	1163-07-108-1	1163-07-108-2	1163-07-108-4	Ball Bearing	238mm (9-3/8")	Swivel 181.5mm Swivel W/Center Lock Brake 181.5mm
	600 kgs (1320 lbs)	QPU on AL Core (Round)	1163-07-87-1	1163-07-87-2	1163-07-87-4			



 Diameter×Width	 Load	 Material	Item No.			 Bearing	 Overall Height	 Swivel radius
			Fixed	Swivel	Brake			
180mm x 50mm (7" x 2")	450 kgs (990 lbs)	PU on Cast	1163-07-33-1	1163-07-33-2	1163-07-33-4	Ball Bearing	238mm (9-3/8")	Swivel 181.5mm Swivel W/Center Lock Brake 181.5mm
	600 kgs (1320 lbs)	QPU(Round)	1163-07-80-1	1163-07-80-2	1163-07-80-4			
	650 kgs (1430 lbs)	VPU (Round)	1163-07-82-1	1163-07-82-2	1163-07-82-4			
	650 kgs (1430 lbs)	XPU on Iron Core (Round)	1163-07-91-1	1163-07-91-2	1163-07-91-4			
	650 kgs (1430 lbs)	VQPU (Round Shape)	1163-07-83-1	1163-07-83-2	1163-07-83-4			
200mm x 44mm (8"x1-3/4")	350 kgs (770 lbs)	NBR Rubber on Cast	1163-08-04-1	1163-08-04-2	1163-08-04-4	Ball Bearing	248mm (9-3/4")	Swivel 191.5mm Swivel W/Center Lock Brake 191.5mm
	350 kgs (770 lbs)	Non-marking Rubber on Cast	1163-08-11-1	1163-08-11-2	1163-08-11-4			
	350 kgs (770 lbs)	Non-marking NBR Rubber on Cast	1163-08-90-1	1163-08-90-2	1163-08-90-4			
	400 kgs (880 lbs)	Recilcent rubber on AL Core	1163-08-89-1	1163-08-89-2	1163-08-89-4			
200mm x 50mm (8" x 2")	450 kgs (990 lbs)	PU on Cast	1163-08-33-1	1163-08-33-2	1163-08-33-4	Ball Bearing	248mm (9-3/4")	Swivel 191.5mm Swivel W/Center Lock Brake 191.5mm
	450 kgs (990 lbs)	Nylon	1163-08-07-1	1163-08-07-2	1163-08-07-4			
	750 kgs (1650 lbs)	PU on Cast (2050A/2050B)	1163-08-62-1	1163-08-62-2	1163-08-62-4			
	450 kgs (990 lbs)	WMRC	1163-08-45-1	1163-08-45-2	1163-08-45-4			
	500 kgs (1100 lbs)	PU on AL Core (Round)	1163-08-108-1	1163-08-108-2	1163-08-108-4			
	550 kgs (1200 lbs)	PU on AL Core (Flat)	1163-08-108-1	1163-08-108-2	1163-08-108-4			
	650 kgs (1430 lbs)	QPU on AL Core (Round)	1163-08-87-1	1163-08-87-2	1163-08-87-4			
	700 kgs (1540 lbs)	QPU on AL Core (Flat)	1163-08-87-1	1163-08-87-2	1163-08-87-4			
	670 kgs (1475 lbs)	QPU (Round)	1163-08-80-1	1163-08-80-2	1163-08-80-4			
	720 kgs (1580 lbs)	QPU (Flat)	1163-08-80-1	1163-08-80-2	1163-08-80-4			
	670 kgs (1475 lbs)	VPU (Round)	1163-08-82-1	1163-08-82-2	1163-08-82-4			
	800 kgs (1760 lbs)	VQPU (Round)	1163-08-83-1	1163-08-83-2	1163-08-83-4			
	1100 kgs (2420 lbs)	XPU on Iron Core (Round)	1163-08-91-1	1163-08-91-2	1163-08-91-4			
	650 kgs (1430 lbs)	EPU (Round Shape)	1163-08-78-1	1163-08-78-2	1163-08-78-4			
	700 kgs (1540 lbs)	EPU (Flat Shape)	1163-08-78-1	1163-08-78-2	1163-08-78-4			
	750 kgs (1650 lbs)	EQPU (Round Shape)	1163-08-81-1	1163-08-81-2	1163-08-81-4			
	800 kgs (1760 lbs)	EQPU (Flat Shape)	1163-08-81-1	1163-08-81-2	1163-08-81-4			
200mm x 51mm	650 kgs (1430 lbs)	ZQPU (Dual Wheels)	1163-08-101-1	1163-08-101-2	1163-08-101-4			