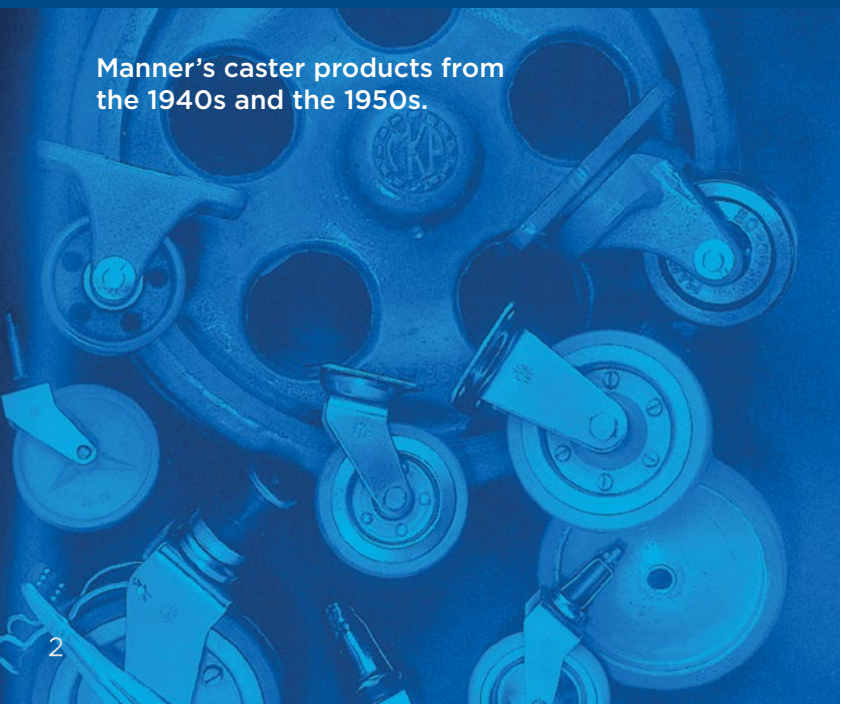
THE GLOBAL LEADER IN CASTERS AND WHEELS

Manner – looking after our customers since 1890

Manner, founded in 1890, was a traditional family-owned company. During its history, the company has manufactured a wide range of products, from tin household containers to radio masts, and from woodworking machines to high-pressure water tanks. Manner has over 80 years' experience in the design and manufacture of a variety of caster products.

Customer orientation and professionalism have always been Manner's core principles. We help our customers to determine their requirements and to find solutions. Our flexible production model allows us to fulfill customer-specific requirements, and our long experience guarantees that every product off our production line is of the highest Manner quality.



Manner's caster products from the 1940s and the 1950s.

1890
Juho Manner founded the company, which produces kitchenware and tin roofs

1899
The company's new activities include a sports shop and bicycle rentals

1914
Focus on workshop operations

1922
Move to Pitkäkatu, where Manner still operates today

1930
Manner's range includes products such as wagon bogies

1994
The first caster entirely made of plastic

2000
Tango product line launches

2008
Current improved Tango product launced

2010
e-SMART and SMART win the international Red Dot Design Award

2011
The world's first caster with electric central locking, e-SMART, is launched on the market

2020
The new Twist product series is launched

2023
Colson Group acquires Manner

Designed and manufactured in Finland

Manner's casters are designed and manufactured in Hanko, Finland. The high Manner quality is a guarantee that, amongst other things, our products always exceed the requirements set by industry standards. We always take environmental and safety issues into account in all our operations.

Colson's vision

As part of Colson Group—the world's largest manufacturer of casters and wheels—Manner's 135-year tradition of precision engineering and manufacturing now reaches a broader global market.

Thanks to our in-depth expertise, all of our products are of the highest standard, and our international operations are based on cooperation with trusted partners. By always complying with agreements and keeping our promises we also help our customers to succeed.

Reliable quality

To us, quality means the reliability of operations and products. Customers can be sure that Manner delivers the products they have ordered as promised. All Manner products are tested and ISO-certified, and compliant with the RoHS and REACH requirements. Manner's operation system complies with the ISO 9001 quality standard and the ISO 14001 environmental standard.

reddot design award
best of the best 2010

Design is a competitive edge factor

Innovative design plays an important role in both the development of new products and the improvement of existing products, and we have long cooperated with top designers. This collaboration has been fruitful as proved by the several industry awards that Manner has received.

Guide to choosing the right caster

Please consider the following points when selecting a caster for a specific application.

1 Determining the load capacity for the caster

Calculating the load capacity

The required load capacity of a caster can be calculated by dividing the total weight of a 4-wheel unit by three; only by three because the unit may sometimes move only on three wheels on an uneven surface.

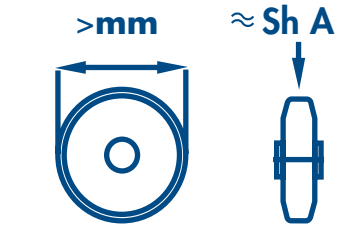
$$\frac{\text{TOTAL WEIGHT}}{3} = \text{CASTER LOAD CAPACITY}$$

Calculating the shock load capacity

If the caster is subject to shock load, which can occur, for example, when crossing thresholds or other obstacles, this must be taken into account when determining the load capacity. You can prepare for this by choosing a wheel with a larger diameter and a soft tread. If the caster is subjected to shock load, the total weight of the four-wheel unit is divided by two.

$$\frac{\text{TOTAL WEIGHT}}{2} = \text{CASTER SHOCK LOAD CAPACITY}$$

2 Surface and surroundings



The diameter of the wheel, the shape of the tread, as well as the material and hardness of the tread have a significant impact on maneuverablility, rolling resistance and swivel resistance.

Uneven surface = larger wheel and softer tread

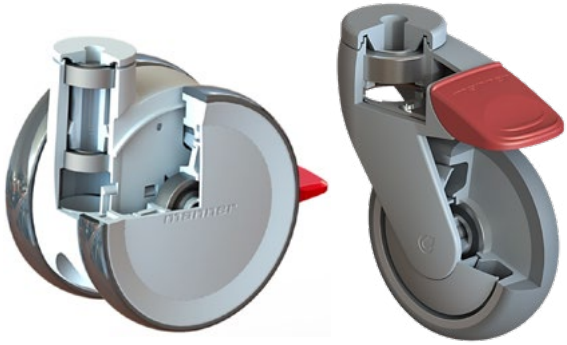
The rule of thumb is: the more uneven the surface, the larger the wheel and the softer the tread should be. For a flat surface and good conditions, you can choose the tread more freely.

Caster according to conditions

If the caster is to be used outdoors, in humid environments, at high or low temperatures, or if the caster comes into contact with chemicals, this should be taken into account when selecting the caster.

3 Precision Bearings

Tango and Twist come equipped with sealed precision bearings in both the swivel raceway and the wheel—standard on every model.



4 Mounting options

Choose the most suitable mounting options for the application. A correctly selected and mounted caster also increases operational safety. Our selection includes the following mounting options.

THREADED STEM

EXPANDER

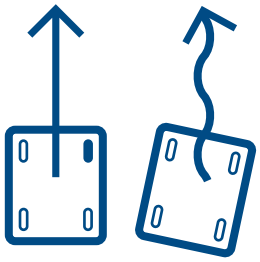
TOP PLATE

GRIP RING

CUSTOMIZED STEM FITTING

5 Do you require brakes or directional locking?

Single action brake locks the wheel to stop it revolving, total-stop brake also prevents it from turning.
If it is important for the unit to stay in place when it is not moving, you should choose a caster with a brake. There are two brake options: single action or total-stop brakes.



Directional lock locks the wheel in the direction of travel.
A directional lock is available for some of Manner's product ranges. The directional lock prevents the wheel from turning and locks it in the direction of travel. A directional lock can be chosen when only swivel casters are used in the unit. The directional lock improves the control of the unit when travelling down long corridors, for example.

Once the lock is released, all casters can once again be turned, and the unit is easy to maneuver, even in confined spaces.

6 Does the caster require special features?

The functionality of a caster can be supplemented with and improved by several different features. Our range includes a variety of casters such as stainless and conductive casters.

PLEASE NOTE THE FOLLOWING FACTORS

Load capacity values apply to non-mechanical use in normal temperatures. Please note that the capacity may be considerably different if the caster is used in temperatures outside the normal range. If the wheel contains different materials, heat resistance is determined by the lowest temperature. The speeds are 2–2.5 mph depending on the caster set. If conditions are exceptionally demanding, contact our distributors or factory for advice.

Twist

Twin Wheel Caster with an Easy-to-Use Brake

Pure. Timeless. Intuitive.

Twist is an easily maneuverable and high-quality twin wheel caster. The special feature of Twist is the intuitive brake pedal that clearly shows the status of the locking system and is easy to use.

RoHS Environmentally friendly (Consult factory)

Reach Compliant

Features

EASY TO MOUNT
The caster is easy to fit with standard tools

SMART PROTECTION
Prevents finger injuries and blocks dirt

EASY TO MANEUVER
High-quality ball bearings ensure that the caster is easily maneuverable

INTUITIVE BRAKE PEDAL
Twist kick-style total lock brake

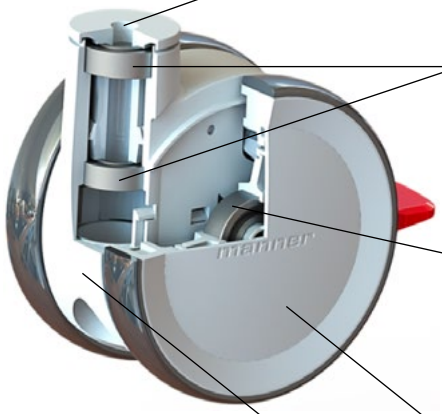
HOLLOW KINGPIN DESIGN

2 SEALED PRECISION BEARINGS
Standard in the raceway

SEALED PRECISION BEARINGS
Standard in each wheel

WHEEL COVER PLATE

GLASS-FIBER REINFORCED POLYAMIDE WITH FULLY ENCLOSED BODY



Options

Consult the factory for MOQ and lead time.

STAINLESS

CONDUCTIVE

LOW PROFILE

Applications

- Healthcare Furniture
- Home Healthcare Beds
- Electronic Medical Devices
- Computer Carts
- Incubators & Bassinets
- Diagnostic Equipment

Twist

Mounting Options

Choose from a full range of smart, ready-to-fit fastening options—including hollow kingpin, rectangular top plate, threaded stem, grip-ring stem, round stem, and expanding adapters. Specialized stem fittings are also available upon request. The fork's intuitive design ensures quick, hassle-free installation using standard tools.

HOLLOW KINGPIN

RECTANGULAR TOP PLATE

THEADED STEM

GRIP RING STEM

ROUND STEM

EXPANDING ADAPTER

Standard Sizes / Color

75 MM
Diameter

100 MM
Diameter

125 MM
Diameter

Basic Custom Colors

*Other color combinations are available, consult the factory for MOQ and lead time.

LIGHT GRAY*

BLACK*

GRAY*

Wheel Material

Polyurethane (95A) is the standard wheel material. Other wheel treads are available, consult the factory for MOQ and lead time.

TPU (95A)

Configuration

Any color combination is available. Consult factory for MOQ and lead time.

SWIVEL

WHEEL BRAKE

TOTAL LOCK BRAKE

DIRECTIONAL LOCK BRAKE

Standard Twist Models

Type of Caster	
Hollow Kingpin	TW
Top Plate	TWL
Stem	TWR

Brake Type & Color	
Swivel	S
Wheel Brake (75mm only)	J-S
Total Lock (Red Pedal)	J-S
Directional Lock (Green Pedal)	R-S

Body Color	
White	W
Gray* (RAL 7042)	G
Black* (RAL 9005)	B

Special Feature	
Conductive	A
Stainless	IX
Low	LOW

Wheel Diameter	Fastening Type	Tread Width	Mount Height	Swivel Radius	Capacity	Model Number
75mm	Hollow Kingpin Swivel	60mm (2.4in)	80mm (3.2in)	61mm (2.4in)	95kg (209lbs)	**TW - S - 75 - GP/K –** ____ - ____ - ___
	Top Plate Swivel	60mm (2.4in)	88mm (3.4in)	61mm (2.4in)	80kg (176lbs)	**TWL - S - 75 - GP/K –** ____ - ____ - ___
	Stem Mount Swivel	60mm (2.4in)	80mm (3.2in)	61mm (2.4in)	95kg (209lbs)	**TWR- S - 75 - GP/K –** ____ - ____ - ___
	Hollow Kingpin Wheel Brake	60mm (2.4in)	80mm (3.2in)	85mm (3.4in)	95kg (209lbs)	**TW - J - S - 75 - GP/K –** ____ - ____ - ___
	Top Plate Wheel Brake	60mm (2.4in)	88mm (3.4in)	85mm (3.4in)	80kg (176lbs)	**TWL - J - S - 75 - GP/K –** ____ - ____ - ___
	Stem Mount Wheel Brake	60mm (2.4in)	80mm (3.2in)	85mm (3.4in)	95kg (209lbs)	**TWR - J - S - 75 - GP/K –** ____ - ____ - ___
100mm	Hollow Kingpin Swivel	81mm (3.2in)	118mm (4.7in)	90mm (3.5in)	125kg (275lbs)	**TW - S - 100 - GP/K –** ____ - ____ - ___
	Top Plate Swivel	81mm (3.2in)	126mm (5in)	90mm (3.5in)	100kg (220lbs)	**TWL - S - 100 - GP/K –** ____ - ____ - ___
	Stem Mount Swivel	81mm (3.2in)	118mm (4.7in)	90mm (3.5in)	125kg (275lbs)	**TWR - S - 100 - GP/K –** ____ - ____ - ___
	Hollow Kingpin Total Lock	81mm (3.2in)	118mm (4.7in)	113mm (4.5in)	125kg (275lbs)	**TW - J - S - 100 - GP/K –** ____ - ____ - ___
	Top Plate Total Lock	81mm (3.2in)	126mm (5in)	113mm (4.5in)	100kg (220lbs)	**TWL - J - S - 100 - GP/K –** ____ - ____ - ___
	Stem Mount Total Lock	81mm (3.2in)	118mm (4.7in)	113mm (4.5in)	125kg (275lbs)	**TWR -J - S - 100 - GP/K –** ____ - ____ - ___
125mm	Hollow Kingpin Swivel	81mm (3.2in)	143mm (5.6in)	102mm (4in)	125kg (275lbs)	**TW - S - 125 - GP/K –** ____ - ____ - ___
	Top Plate Swivel	81mm (3.2in)	150mm (5.9in)	102mm (4in)	100kg (220lbs)	**TWL - S - 125 - GP/K –** ____ - ____ - ___
	Stem Mount Swivel	81mm (3.2in)	143mm (5.6in)	102mm (4in)	125kg (275lbs)	**TWR - S - 125 - GP/K –** ____ - ____ - ___
	Hollow Kingpin Total Lock	81mm (3.2in)	143mm (5.6in)	133mm (5.2in)	125kg (275lbs)	**TW - J - S - 125 - GP/K –** ____ - ____ - ___
	Top Plate Total Lock	81mm (3.2in)	150mm (5.9in)	133mm (5.2in)	100kg (220lbs)	**TWL - J - S - 125 - GP/K –** ____ - ____ - ___
	Stem Mount Total Lock	81mm (3.2in)	143mm (5.6in)	133mm (5.2in)	125kg (275lbs)	**TWR - J - S - 125 - GP/K –** ____ - ____ - ___
	Hollow Kingpin Directional Lock	81mm (3.2in)	143mm (5.6in)	133mm (5.2in)	125kg (275lbs)	**TW - R - S - 125 - GP/K –** ____ - ____ - ___
	Top Plate Directional Lock	81mm (3.2in)	150mm (5.9in)	133mm (5.2in)	100kg (220lbs)	**TWL - R - S - 125 - GP/K –** ____ - ____ - ___
	Stem Mount Directional Lock	81mm (3.2in)	143mm (5.6in)	133mm (5.2in)	125kg (275lbs)	**TWR - R - S - 125 - GP/K –** ____ - ____ - ___

Common Industry Mountings

Hollow Kingpin Size	
10mm	HK04
13mm	HK01

Top Plate Size	
95mmx70mm	TP52
77mm x 67mm	TP11
2½" x 3⅝"	TP01

Threaded Stem Size	
½"-13NC X 1"	TSO2
½"-13NC X 1½"	TSO3
½"-13NC X 2"	TSO4
7⁄16"-14NC X 1¾"	TSO5
⅜"-16NC X 1"	TSO6
M12 X 1.75 X 25mm	TS07
M10 X 16mm	TS54
M12 X 70mm	TS60
½"-13NC X 2¾"	TS22
M16 x 20mm	TS18

Grip Ring Stem Size	
7⁄16" x ⅞"	GR01
7⁄16" x 1 7⁄16"	GR02
.845" x 2 3⁄16"	GR09
7⁄16" x 1⅜"	GR10

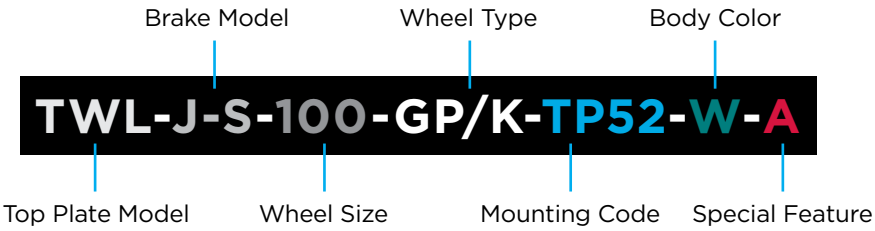
Round Stem Size	
22mm x 45mm	RS01
25.4mm x 45mm	RS02
27.8mm x 45mm	RS03
32mm x 45mm	RS05

Expanding Adapter Round Tubing (ID)	
¾" - 13⁄16"	XRR1
⅞" - 15⁄16"	XRR2
1" - 1 1⁄16"	XRR3

Expanding Adapter Square Tubing (ID)	
¾" - 13⁄16"	XSN1
⅞" - 15⁄16"	XSN2
1" - 1 1⁄16"	XSN3

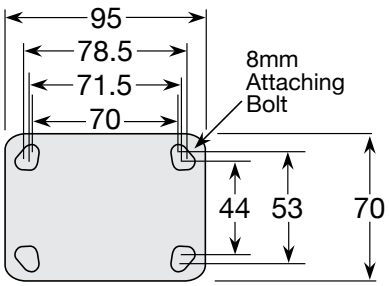
*Consult the factory for MOQ and lead time.

Sample Twist Model Number

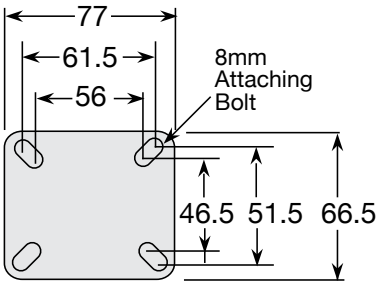


Twist Top Plate Sizes

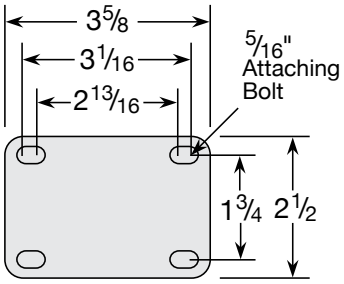
TP52
(MM)

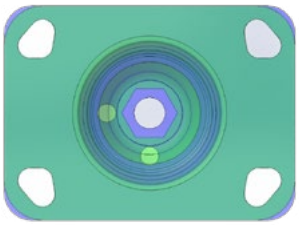


TP11
(MM)

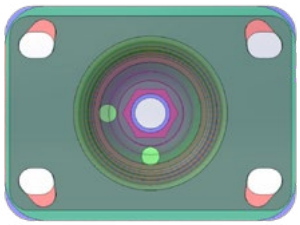


TP01
(INCHES)



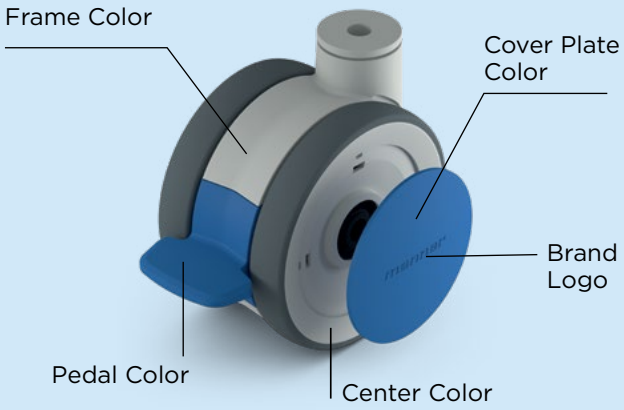


TP52 bolt hole pattern matches the European 95mm X 70mm bolt hole pattern.



TP52 bolt hole pattern matches the US 3⅝" x 2½" bolt hole pattern.

Customization



Twist provides plenty of opportunities for customization. For example, the color of the caster frame, pedal, center and cover plate, as well as the logo, can be changed. Consult the factory for MOQ and lead time.

Tango

Adaptable Equipment Caster

Dynamic. Elite. Versatile.

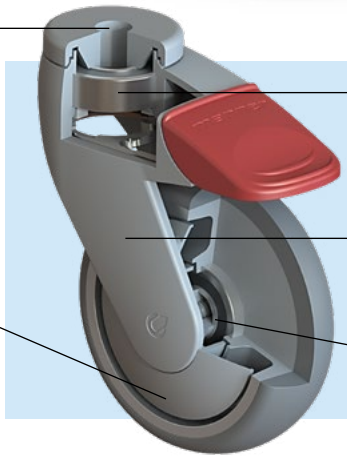
Tango offers smooth, reliable mobility in even the toughest environments. Its maintenance-free, corrosion-resistant design makes it easy to maneuver and clean—perfect for hospitals, kitchens, offices, public spaces, and more.

RoHS Environmentally friendly (Consult factory)

Reach Compliant

Features

Smart protection to prevent finger injuries and block dirt



Options

Consult the factory for MOQ and lead time.

STAINLESS

CONDUCTIVE

Protective film on the tread

Large and small brake pedals

Applications

- Healthcare Furniture
- Home Healthcare Beds
- Electronic Medical Devices
- Computer Carts
- Incubators & Bassinets
- Diagnostic Equipment

Tango

Mounting Options

Explore a complete lineup of smart, ready-to-install fastening solutions—from hollow kingpin and rectangular top plates to threaded, grip-ring, and round stems, plus expanding adapters. Custom stem fittings are available on request, and the fork's user-friendly design allows fast, trouble-free installation with everyday tools.

HOLLOW KINGPIN

RECTANGULAR TOP PLATE

THEADED STEM

GRIP RING STEM

ROUND STEM

EXPANDING ADAPTER

Standard Sizes / Color

75 MM
Diameter

100 MM
Diameter

125 MM
Diameter

Basic Custom Colors

*Other color combinations are available, consult the factory for MOQ and lead time.

LIGHT GRAY*

WHITE*

BLACK*

Wheel Material

Thermoplastic rubber (80A) offered as standard. Also available in soft polyurethane (80A) and elastic solid rubber (60A). Consult the factory for MOQ and lead time.

Configuration

Any color combination is available. Consult factory for MOQ and lead time.

SWIVEL

TOTAL LOCK BRAKE

DIRECTIONAL LOCK BRAKE

RIGID

Standard Tango Models

Type of Caster	
Top Plate	GKL
Stem Mount	GKR
Top Plate Rigid	GPL
Stem Mount Rigid	GPR

Brake Type & Color	
Swivel	S
Total Lock (Red Pedal)	J-S
Directional Lock (Green Pedal)	R-S

Wheel Type	
TPR (80A)	PTE/K
TPU (80A)*	NP/K
Rubber (60A)*	NEK/K

Caster Color	
Gray (RAL 7042)	G
White*	W
Black* (RAL 9005)	B

Special Feature	
Conductive	A
Stainless	IX

Wheel Diameter	Fastening Type	Tread Width	Mount Height	Swivel Radius	Capacity	Model Number
75mm	Top Plate Swivel	32mm (1.3in)	117mm (4.6in)	73mm (2.9in)	70kg (155lbs)	**GKL - S - 75 -** ____ – _____ - _____ - ___
	Stem Mount Swivel	32mm (1.3in)	110mm (4.3in)	73mm (2.9in)	70kg (155lbs)	**GKR - S - 75 -** ____ – _____ - _____ - ___
	Top Plate Total Lock	32mm (1.3in)	117mm (4.6in)	94mm (3.7in)	70kg (155lbs)	**GKL - J - S - 75 -** ____ – _____ - _____ - ___
	Stem Mount Total Lock	32mm (1.3in)	110mm (4.3in)	94mm (3.7in)	70kg (155lbs)	**GKR - J - S - 75 -** ____ – _____ - _____ - ___
	Top Plate Directional Lock	32mm (1.3in)	117mm (4.6in)	94mm (3.7in)	70kg (155lbs)	**GPL - R - S - 75 -** ____ – _____ - _____ - ___
	Stem Mount Directional Lock	32mm (1.3in)	110mm (4.3in)	94mm (3.7in)	70kg (155lbs)	**GKR - R - S - 75 -** ____ – _____ - _____ - ___
100mm	Top Plate Swivel	32mm (1.3in)	148mm (5.8in)	95mm (3.7in)	100kg (220lbs)	**GKL - S - 100 -** ____ – _____ - _____ - ___
	Stem Mount Swival	32mm (1.3in)	141mm (5.6in)	95mm (3.7in)	100kg (220lbs)	**GKR - S - 100 -** ____ – _____ - _____ - ___
	Top Plate Total Lock	32mm (1.3in)	148mm (5.8in)	95mm (3.7in)	100kg (220lbs)	**GKL - J - S - 100 -** ____ – _____ - _____ - ___
	Stem Mount Total Lock	32mm (1.3in)	141mm (5.6in)	95mm (3.7in)	100kg (220lbs)	**GKR - J - S - 100 -** ____ – _____ - _____ - ___
	Top Plate Directional Lock	32mm (1.3in)	148mm (5.8in)	95mm (3.7in)	100kg (220lbs)	**GPL - S - 100 -** ____ – _____ - _____ - ___
	Stem Directional Lock	32mm (1.3in)	141mm (5.6in)	95mm (3.7in)	100kg (220lbs)	**GPR - S - 100 -** ____ – _____ - _____ - ___
	Top Plate Rigid	32mm (1.3in)	148mm (5.8in)	95mm (3.7in)	100kg (220lbs)	**GPL - R - S - 125 -** ____ – _____ - _____ - ___
	Stem Mount Rigid	32mm (1.3in)	141mm (5.6in)	95mm (3.7in)	100kg (220lbs)	**GPR - S - 125 -** ____ – _____ - _____ - ___
125mm	Top Plate Swivel	32mm (1.3in)	168mm (6.6in)	110mm (4.3in)	100kg (220lbs)	**GKL - S - 125 -** ____ – _____ - _____ - ___
	Stem Mount Swivel	32mm (1.3in)	161mm (6.3in)	110mm (4.3in)	100kg (220lbs)	**GKR - S - 125 -** ____ – _____ - _____ - ___
	Top Plate Total Lock	32mm (1.3in)	168mm (6.6in)	110mm (4.3in)	100kg (220lbs)	**GKL - J - S - 125 -** ____ – _____ - _____ - ___
	Stem Mount Total Lock	32mm (1.3in)	161mm (6.3in)	102mm (4in)	100kg (220lbs)	**GKR - J - S - 125 -** ____ – _____ - _____ - ___
	Top Plate Directional Lock	32mm (1.3in)	168mm (6.6in)	110mm (4.3in)	100kg (220lbs)	**GKL - R - S - 125 -** ____ – _____ - _____ - ___
	Stem Mount Directional Lock	32mm (1.3in)	161mm (6.3in)	110mm (4.3in)	100kg (220lbs)	**GKR - R - S - 125 -** ____ – _____ - _____ - ___
	Top Plate Rigid	32mm (1.3in)	168mm (6.6in)	110mm (4.3in)	100kg (220lbs)	**GPL - R - S - 125 -** ____ – _____ - _____ - ___
	Stem Mount Rigid	32mm (1.3in)	161mm (6.3in)	110mm (4.3in)	100kg (220lbs)	**GPR - S - 125 -** ____ – _____ - _____ - ___

Common Industry Mountings

Top Plate Size	
95mmx70mm	TP52
77mm x 67mm	TP11
2½" x 3⅝"	TP01

Threaded Stem Size	
½"-13NC X 1"	TSO2
½"-13NC X 1½"	TSO3
½"-13NC X 2"	TSO4
7/16"-14NC X 1¾"	TSO5
⅜"-16NC X 1"	TSO6
M12 X 25mm	TS07
M10 X 15mm	TS15
M12 X 60mm	TS21
½"-13NC X 2¾"	TS22
M12 x 38mm	TS34

Grip Ring Stem Size	
7/16" x ⅞"	GR01
7/16" x 1 1/16"	GR02
.845" x 2 3/16"	GR09
7/16" x 1⅜"	GR10

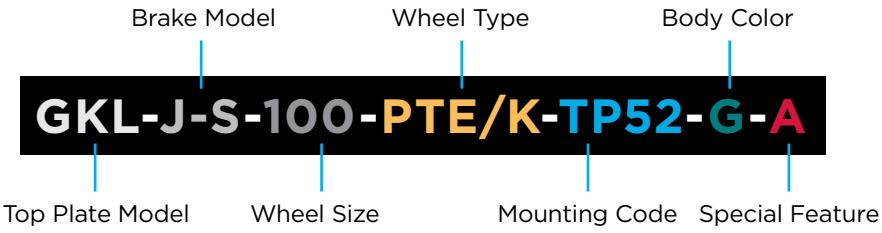
Round Stem Size	
22mm x 45mm	RS01
25.4mm x 45mm	RS02
27.8mm x 45mm	RS03
32mm x 45mm	RS05

Expanding Adapter Round Tubing (ID)	
¾" - 13/16"	XRR1
¾" - 13/16"	XRR2
¾" - 13/16"	XRR3

Expanding Adapter Square Tubing (ID)	
¾" - 13/16"	XSN1
¾" - 13/16"	XSN2
¾" - 13/16"	XSN3

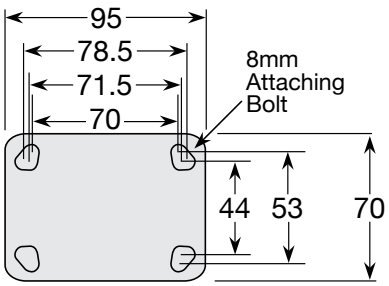
*Consult the factory for MOQ and lead time.

Sample Tango Model Number

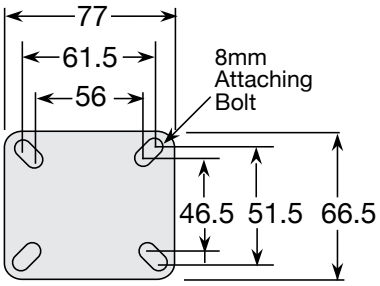


Tango Top Plate Sizes

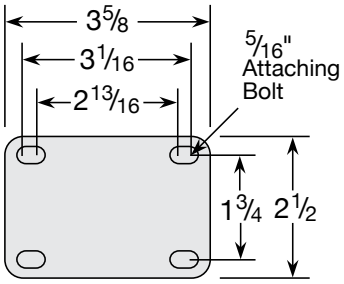
TP52
(MM)

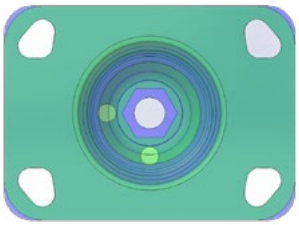


TP11
(MM)

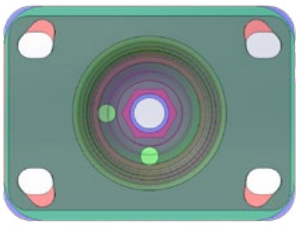


TP01
(INCHES)





TP52 bolt hole pattern matches the European 95mm X 70mm bolt hole pattern.



TP52 bolt hole pattern matches the US 3⅝" x 2½" bolt hole pattern.

Customization

Your brand colors and color combinations are fully supported for a perfect match

Brand the pedal with your logo to make it a natural extension of your product

Tango provides plenty of opportunities for customization. Consult the factory for MOQ and lead time.

colson GROUP

CGP605.1225.V1
© Copyright 2025 | Colson Group

ColsonGroupUSA.com

Specifications subject
to change without notice.