



Range of Measuring wheels



Product Range and
Instruction Manual



South Africa

Ver.10.1

Product Range & Accessories:

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Classique Range

Features:

	Std	Del	Clas
Pistol Grip Zero Reset			●
Trigger Brake		●	●
Folds in Half	●	●	●
Push Button Release Clip	●	●	●
Push Button Zero Reset	●	●	●
Kick Down Side Stand	●	●	●
Convenient Carry Handle	●	●	●
Wrist Strap	●	●	●
Debris Removing Scraper	●	●	●
Follows Fine Edges	●	●	●
Runs in Straight Line	●	●	●
Balanced In Line Movement	●	●	●
Better Traction	●	●	●
Wheel Runs on Sealed Roller Bearings	●	●	●
Zero Point Indicator	●	●	●
Heavy Duty	●	●	●

Specifications:

	Metric	Imperial
Measuring Distance	10 000 m	10 00 ft
Increments	0.1 m	0.1 ft
Wheel Circumference	1 m	3.2 ft
Wheel Diameter	0.32 m	1 ft
Weight	2.36 kg	5.2 lb

Uses:

Road Marking, Construction, Paving, Fencing, Pool Construction, Garden Layouts, Field Layouts, Factory Layouts, Property Assessments, ect. Can be used on most surfaces smooth and uneven over long or short distances.

Surfaces:

- Hard Smooth
- ⌋ Paving
- ~ Uneven
- ||||| Grass and Carpet
- ▨▨▨▨▨ Soft Sand



1000 Range

Features:

Del
Std

Trigger Brake		●
Folds in Half	●	●
Push Button Release Clip	●	●
Push Button Zero Reset	●	●
Kick Down Side Stand	●	●
Convenient Carry Handle	●	●
Wrist Strap	●	●
Debris Removing Scraper	●	●
Follows Fine Edges	●	●
Runs in Straight Line	●	●
Balanced In Line Movement	●	●
Better Traction	●	●
Wheel Runs on Sealed Roller Bearings	●	●
Heavy Duty	●	●

Specifications:

Metric

Imperial

Measuring Distance	10 000 m	10 00 ft
Increments	0.1 m	0.1 ft
Wheel Circumference	1 m	3.2 ft
Wheel Diameter	0.32 m	1 ft
Weight	2.1 kg	4.6 lb

Uses:

Road Marking, Construction, Paving, Fencing, Pool Construction, Garden Layouts, Field Layouts, Factory Layouts, Property Assessments, ect. Can be used on most surfaces smooth and uneven over long or short distances.

Surfaces:

- Hard Smooth
- Paving
- Uneven
- Grass and Carpet
- Soft Sand



1000 Econo Range

Features:

	Std	Del
Trigger Brake		●
Folds in Half	●	●
Push Button Release Clip	●	●
Push Button Zero Reset	●	●
Kick Down Side Stand	●	●
Debris Removing Scraper	●	●
Follows Fine Edges	●	●
Runs in Straight Line	●	●
Balanced In Line Movement	●	●
Better Traction	●	●
Wheel Runs on Sealed Roller Bearings	●	●

Specifications:

	Metric	Imperial
Measuring Distance	10 000 m	10 00 ft
Increments	0.1 m	0.1 ft
Wheel Circumference	1 m	3.2 ft
Wheel Diameter	0.32 m	1 ft
Weight	1.8 kg	3.9 lb

Uses:

Road Marking, Construction, Paving, Fencing, Pool Construction, Garden Layouts, Field Layouts, Factory Layouts, Property Assessments, ect. Can be used on most surfaces smooth and uneven over long or short distances.

Surfaces:

	Hard Smooth	★ ★ ★ ★ ★
	Paving	★ ★ ★ ★ ★
	Uneven	★ ★ ★ ★
	Grass and Carpet	★ ★ ★
	Soft Sand	★ ★



500 Range

Features:

	Std	Del
Trigger Brake		●
Folds to One Third	●	●
Push Button Release Clips	●	●
Push Button Zero Reset	●	●
Wrist Strap	●	●
Follows Fine Edges	●	●
Runs in Straight Line	●	●
Balanced In Line Movement	●	●
Better Traction	●	●
Wheel Runs on Sealed Roller Bearings	●	●
Zero Point Indicator	●	●
Heavy Duty	●	●
Light Weight	●	●
Easy Storage	●	●

Specifications:

	Metric	Imperial
Measuring Distance	10 000 m	10 00 ft
Increments	0.1 m	0.1 ft
Wheel Circumference	0.5 m	1.5 ft
Wheel Diameter	0.16 m	0.5 ft
Weight	1.16 kg	2.5 lb

Uses:

Quoting for carpets, Flooring, Paving, Garden Layouts, Factory Layouts.
Normally used on smoother Surfaces, Over Shorter Distances.

Surfaces:

	Hard Smooth
	Paving
	Uneven
	Grass and Carpet
	Soft Sand



500 Bantam

Features:

Del

Trigger Brake	●
Push Button Zero Reset	●
Wrist Strap	●
Follows Fine Edges	●
Runs in Straight Line	●
Balanced In Line Movement	●
Better Traction	●
Wheel Runs on Sealed Roller Bearings	●
Zero Point Indicator	●
Heavy Duty	●
Light Weight	●
Easy Storage	●

Specifications:

Metric Imperial

Measuring Distance	10 000 m	10 00 ft
Increments	0.1 m	0.1 ft
Wheel Circumference	0.5 m	1.5 ft
Wheel Diameter	0.16 m	0.5 ft
Weight	0.8 kg	1.7 lb

Uses:

Conveyor Belts, Table Top Measurements ect.

Surfaces:

—	Hard Smooth	★★★★★
⌋	Paving	★★★★
~	Uneven	★★★
	Grass and Carpet	★★
	Soft Sand	



500 Bantam No Handel

Features:

Push Button Zero Reset	●
Follows Fine Edges	●
Runs in Straight Line	●
Balanced In Line Movement	●
Better Traction	●
Wheel Runs on Sealed Roller Bearings	●
Zero Point Indicator	●
Heavy Duty	●
Light Weight	●

Specifications:

	Metric	Imperial
Measuring Distance	10 000 m	10 00 ft
Increments	0.1 m	0.1 ft
Wheel Circumference	0.5 m	1.5 ft
Wheel Diameter	0.16 m	0.5 ft
Weight	0.8 kg	1.7 lb

Uses:

Machine Mountable, or Special Fixed Measuring Applications.

Surfaces:

—	Hard Smooth ★ ★ ★ ★ ★
⌌	Paving
~	Uneven
	Grass and Carpet
	Soft Sand





Rolosure 50

Features:

Telescopic Handel Folds to One Third	●
Push Button Zero Reset	●
Wrist Strap	●
Follows Fine Edges	●
Runs in Straight Line	●
Balanced In Line Movement	●
Better Traction	●
Wheel Runs on Sealed Roller Bearings	●
Light Weight	●
Easy Storage	●

Std

Specifications:

	Metric	Imperial
Measuring Distance	1 000 m	1 00 ft
Increments	0.01 m	1 in
Wheel Circumference	0.16 m	0.5 ft
Wheel Diameter	0.05 m	0.16 ft
Weight	0.7 kg	1.5 lb

Uses:

The Rolo-Sure 50 was designed for measuring around the Office Home or Factory over short distances. Ideal for positioning Furniture, Machines and measuring along walls, floors for quick reference measurement such as quoting on Carpets, Tiles, Curtains and many more. The Rolo-Sure will measure an arch or curved surface more quickly than any tape measure.

Surfaces:

	Hard Smooth
	Paving
	Uneven
	Grass and Carpet
	Soft Sand



1000 Carry Bag:



Features

Std

Heavy Duty	●
Front Pouch	●
Shoulder Strap	●
Inside Lining	●
Carry Handel	●
Water Resistant	●

*Available for: Classique Range & 1000 Range

500 Carry Bag:



Features

Std

Heavy Duty	●
Shoulder Strap	●
Inside Lining	●
Water Resistant	●

*Available for: 500 Range

Econo Carry Bag:



Features

Std

Shoulder Strap	●
Carry Handel	●
Water Resistant	●

*Available for: 1000 Econo Range

Rolosure Carry Bag:



Features

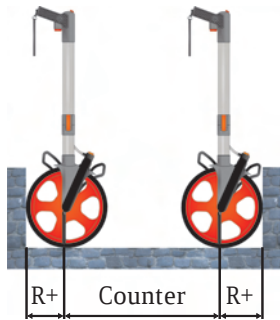
Std

Water Resistant	●
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*Available for: Rolosure 50

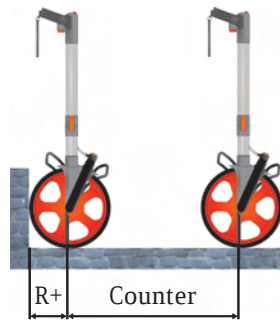
How To Measure

Wall to Wall Measurement



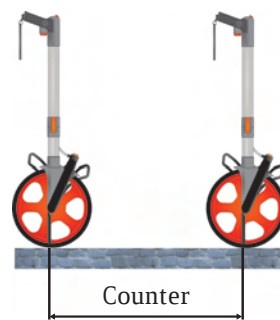
Place your Roto-Sure Measuring Wheel on the ground, with the back of your wheel up against the starting wall. Proceed to move in a straight line to the end wall, and stop the wheel up against it. Record the reading on the counter. The reading must now be added to the diameter of the wheel.

Wall to Point Measurement



Place your Roto-Sure Measuring Wheel on the ground, with the back of your wheel up against the wall. Proceed to move in a straight line to the end point. Stop the wheel with the lowest point over the mark. Record the reading on the counter. The reading must now be added to the radius of the wheel.

Point to Point Measurement

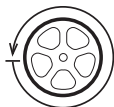


Place your Roto-Sure Measuring Wheel on the starting point of the measurement, with the lowest point of the wheel on the starting mark. Proceed to move in a straight line to the end point. Stop the wheel with the lowest point over the end mark. Record the reading on the counter. This is the final measurement between the two points.

Circumference

Diameter

Radius



*Please refer to the necessary Ranges relating to wheel sizes:

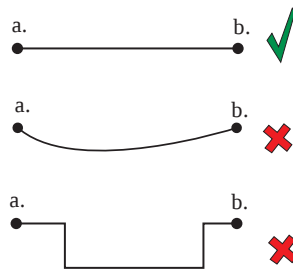
Measuring Technicalities

Selecting the Best Surface

1. When selecting a surface for your measurement, Please Note that the harder and smoother the surface, the more accurate your measurement.
 2. Note that depending on the model of the measuring wheel and the size of the wheel, will determine the most accurate reading for the surface. The smaller the wheel, the less amount of different types of surfaces the wheel can be used on.
 3. In the event of, measuring on grass, thick piled carpet and soft sand, measurements will not be accurate. These types of surfaces tend to retard the rotation of the wheel, thus normally causing the measurement to be short.
 4. It has been found that measuring on grass, depending on the position of the sun at the time of the measurement, can change the reading. This is due to the blades of grass following the sun's position. A similar reaction will happen on thick piled carpet, as you might find your reading to change, depending on the direction the wheel is moved over the carpet. Please note that this is noticeable over distances of 20 meter or more.
- a. ——— Hard Smooth
- b.  Paving
- c.  Uneven
- d.  Grass and Carpet
- e.  Soft Sand

Selecting the Best Route

1. When selecting a route for your measurement, Please take into account that the wheel will measure all contours, hills and bumps. Your measurement will only be as accurate as straight a line you can walk in.



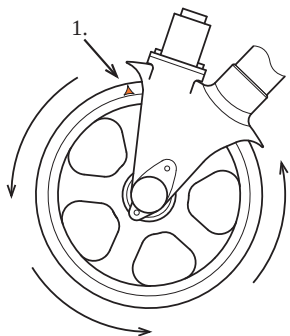
*Please refer to the necessary Ranges relating to usable surfaces

ROT-SURE[®]

Self Calibration

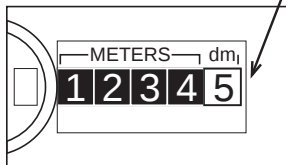
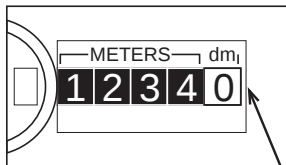
GB

1. Align the arrow on the tire with a point on the fork, so that the arrow can return to the same point.
2. Zero the counter.

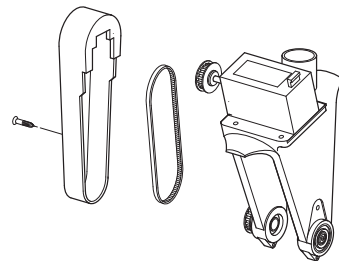


3. Spin the wheel as many times as you like, in the same direction.
4. Stop the wheel and return the arrow to the original point on the fork, that was previously used to line up with.

5. The counter will read any whole number but the white display with the black number on the right hand side of the counter must read zero for measuring wheels with a circumference of 1 meter, and 0 or 5 for measuring wheels with a wheel circumference of 0.5 meters



6. In the event that the counter does not read as indicated, there could be dirt or debris stuck in the timing belt. In order to correct this, please remove the timing belt cover and clean out any dirt or debris lodged between the teeth of the timing belt as well as the pulley.



6. If there is no dirt or debris, and the measuring wheel does not follow as indicated in .5, please contact your local dealer.

*Please Note that self calibration can only be performed on 500 and 1000 Metric Models

Glossary

Circumference:

the distance around a circle, or the distance around the widest part of a circular or round object; the line enclosing a circular space

Diameter:

(the length of) a straight line that reaches from one point on the edge of a round shape or object, through its centre, to a point on the opposite edge

Decimeter - dm

a metric unit of length equal to one tenth of a meter

Increment:

one of a series of amounts that increase a total

Radius:

(the length of) a straight line from the center of a circle to its edge

π - Pi:

represents the ratio of any circle's circumference to its diameter

When a circle's diameter is 1, its circumference is π

$\pi = 3.14159265358979323846...$

Star Rating

★★★★★ Ideal

★★★★★ Good

★★★★ Acceptable

★★★ Estimating

★ Rough Estimating

Not Recommended

Formulas

Circumference:

$$C = \pi D$$

Diameter

$$D = \frac{C}{\pi}$$

Radius

$$R = \frac{D}{2}$$

Conversions

1 inch = 25.4 millimeters

1 foot = 0.3048 meters

1 yard = 0.9144 meters

1 mile = 1.609344 kilometers



Certificate of Calibration

This is to certify that Roto-Sure Measuring Wheels are tested against the Essex County Council Local Standards, which are maintained in accordance with Section 4 of the Weights and Measures Act 1985, as amended. These standards are traceable to National Standards held by the National Weights and Measures Laboratory of Great Britain.

Each wheel is machined to a tolerance of:

0.1mm

on the diameter, for wheels with a Circumference of 1 and 0.5 meters.

Obtaining a 99.5% accurate reading over 500 meters

Proving to be one of the most accurate measuring wheels in the World



Range of Measuring wheels

History

Roto-Sure Measuring Wheels have been established since 1986 and to date has been successful in exporting Measuring wheels to over 60 countries around the world.

Roto-Sure owes its success to input from its customers and constant customer service and quality. Roto-Sure has always valued constructive and novel input from many people around the world to improve the product range to what it is today. Service and back up is our priority.

Guarantee

Roto-Sure Measuring Wheels are backed and Guaranteed by the factory for any defects in materials or workmanship for a period of 2 years from the date of purchase.

For any service, spares and repair requirements contact your dealer or E Mail Roto-Sure at sales@rotosure.com. Roto-Sure will do their best to either put you in contact with an agent or send the spares required. For more info visit www.rotosure.com.

