Accessories

Measuring wheels



Description

When selecting a measuring wheel the kind of material to be measured has to be taken into consideration prior to any decision on wheel surface respectively cover lining. The wheel circumference depends on the space available as well as on the size of counter or encoder. The smaller the measuring wheel, the more force required at the wheel circumference and consequently the higher the risk of slippage and incorrect measuring results. Also the width of the measuring wheel has an impact on the result.

Technical data - Small measuring wheels							
	MR211	MR241	MR261	MR291	MR752		
Circumference	20 cm	20 cm	20 cm	20 cm	30.48 cm		
Outer diameter	63.66 mm	63.66 mm	63.66 mm	63.66 mm	97.02 mm		
Surface profile	Cross knurl	smooth	knopped rubber	knurled	smooth		
Surface material	Aluminium	Hytrel TPE-E	NBR Nitril	Hytrel TPE-E	Vulkollan PUR		
Wheel material	Aluminium	Plastic	Aluminium	Plastic	Aluminium		
Surface hardness, approx.	-	90° Shore A	55° ±5° Shore A	90° Shore A	65° Shore A		
Operating temperature	-30+180 °C	-10+70 °C	-10+50 °C	-10+70 °C	-30+80 °C		
Starting torque/pin	1.5 Nm	1.5 Nm	1.5 Nm	1.5 Nm	1.5 Nm		

Technical data - Large measuring wheels							
	MR512	MR542	MR552	MR562	MR592		
Circumference	50 cm	50 cm	50 cm	50 cm	50 cm		
Outer diameter	159.15 mm	159.15 mm	159.15 mm	159.15 mm	159.15 mm		
Surface profile	Cross knurl	smooth	smooth	knopped rubber	knurled		
Surface material	Aluminium	Hytrel TPE-E	Vulkollan PUR	NBR Nitril	Hytrel TPE-E		
Wheel material	Aluminium	Plastic	Aluminium	Aluminium	Plastic		
Surface hardness, approx.	-	90° Shore A	94° Shore A	55° ±5° Shore A	90° Shore A		
Operating temperature	-30+180 °C	-10+70 °C	-30+80 °C	-10+50 °C	-10+70 °C		
Starting torque/pin	3 Nm	3 Nm	3 Nm	3 Nm	3 Nm		

Appropriate material to be measured					
Recommendend Surface	Suitable material				
Hytrel grooved	Plastic, painted material, paper, Cardboard, wood, metal, textiles				
Hytrel smooth	Plastic, painted material, paper, Cardboard, wood, metal, textiles				
Knurled	Cardboard, wood, (textiles)				
Knopped rubber	Textiles, cloth				
Vulkollan smooth	Plastic, painted material, paper, Cardboard, wood, metal, wire				

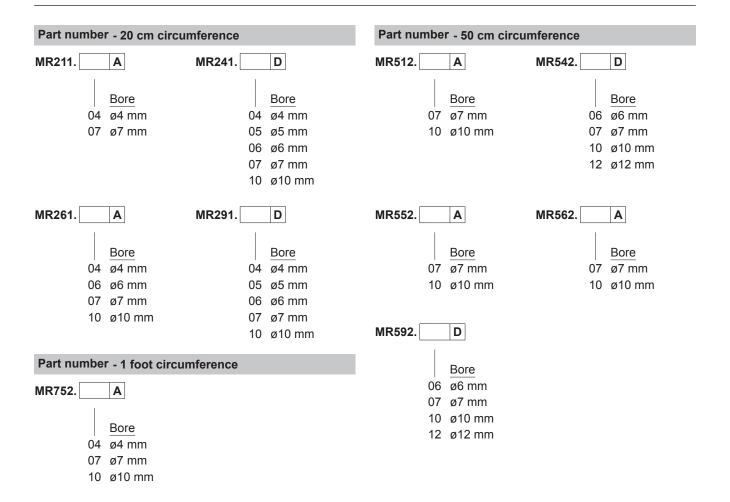
Measuring accuracy

Precise measuring results of a meter counter with measuring wheel depend on:

- Kind of measured material
- Contact angle
- Torque of counter or encoder
- Feeding speed
- Strain of measured material
- Surface roughness
- Contact pressure of material against measuring wheel
- Elastictiy of measured material
- Diametrical tolerance of the measuring wheel



Accessories Measuring wheels



Dimensions

MR241, MR291

MR542, MR592

