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Measuring Wheels

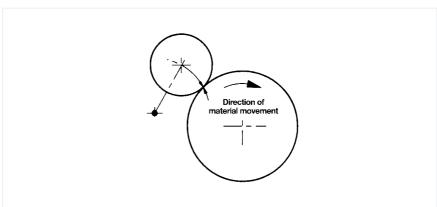
APPLICATION

In order to avoid errors when using measuring wheel actuation, it is important that the slip is kept as low as possible. When choosing a profile (surface structure), special attention must be given to the properties the material being measured, such as elasticity, thickness and interaction resistance. Slippage is also influenced by the width of the contacting measuring wheel, the pressure of

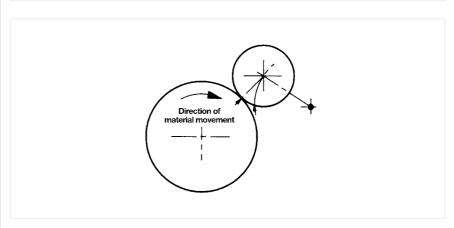
contact, the tensile stress in the material that is being measured and the angle of wrap. The angle of wrap should be as large as possible. Wheel bodies are made of cast metal or plastics (see designation)

The position of the measuring wheel should be chosen such that the material moves away from the bearing of the sensor.

CORRECT
MEASURING WHEEL OR PULSE
GENERATOR



WRONG MEASURING WHEEL OR PULSE GENERATOR



MEASURING WHEEL CIRCUMFERENCE/TRANSMISSION RATIO

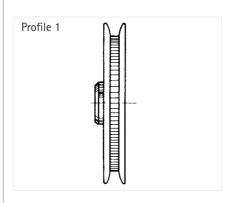
Use the following measuring wheels for different transmission ratios of counters:

| Counter transmission | measuring wheel | | |
|----------------------|-----------------|--|--|
| ratio | circumference | | |
| 500:1 | 0.2 m (1/5 yd.) | | |
| 50:1 | 0.2 m (1/5 yd.) | | |
| 5:1 | 0.2 m (1/5 yd.) | | |
| 2:1 | 0.5 m (1/2 yd.) | | |
| 1:2 | 0.2 m (1/5 yd.) | | |
| 1:5 | 0.5 m (1/2 yd.) | | |
| 1:20 | 0.2 m (1/5 yd.) | | |
| | | | |

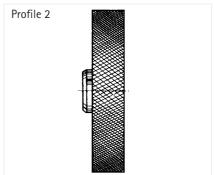
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OVERVIEW

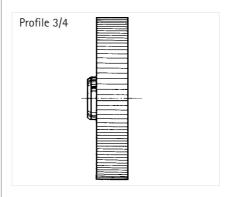


1 with rims, aluminium with fine cross knurling Used e.g. for threads and yarns



2 Rubber profile, glued on Used e.g. for paper and cardboard, cable measurement, non-greasy metal, fleece, wood (rough or finished), soft and hard plastic materials;

A = soft, highly adhesive rubber coating B = good-grip, low-wear rubber

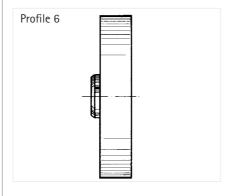


3 Rubber coating with parallel knurling, vulcanized Used e.G for rubber, leather. textiles, floorings, glass Profile 5

5 With rims, aluminium with parallel knurling Used e.g. for threads, yarns, ribbons

4 Aluminium with parallel knurling Used e.g. for rubber, soft plastic materials, wood with rough surface, certain textiles





6 Plastic coated Used e.g. for wire, greased metals, steel profiles

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Measuring Wheels

Technical data

ORDER INFORMATION Aluminium

| Circumf. | Profile | Width of contact surf. | Bore Ø | | | |
|----------|---------|------------------------|-----------|-----------|------------|-----------|
| | | mm | 4.0 mm | 6.0 mm | 7.0 mm | 10.0 mm |
| | | | | | | |
| 0.2 m | 1 | 4 | 0 601 014 | | 0 601 017 | |
| | 2 B | 12 | 0 601 118 | 0 601 048 | | 0 601 049 |
| | 2 A | 24 | 0 601 020 | | 0 601 092 | |
| | 2 B | 24 | | | 0 601 192 | |
| | 4 | 20,5 | 0 601 023 | | | |
| | 4 | 20 | | | 0 601 093 | |
| | 5 | 16,5 | | | 0 601 094 | |
| | | | | | | |
| 0.5 m | 2 A | 25 | | | 0 601 050 | |
| | 2 B | | | | 0 601 150 | 0 601 151 |
| | 3 | 25 | | | | 0 601 156 |
| | 4 | 25 | | | 0 601 121* | 0 601 157 |
| | 6 | 25 | | | 0 601 063* | 0 601 163 |
| | | | | | | |

^{*} meets PTB requirements

Inquire for other measuring wheels

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