

TECHNICAL DATASHEET

Measuring wheels

GENERAL



Measuring wheels serve to convert linear motion into rotary motion, E.g. to measure lengths of profiles, cables, threads or strip materials using counters or encoders.

For this purpose, the measuring wheel is either placed on the shaft of a mechanical or electromechanical counter or in the same way on the shaft of an encoder.

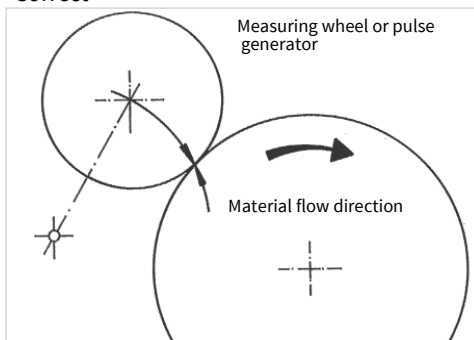
Now either the material to be measured runs over the measuring wheel and is pressed against it by its own weight or the tensile stress, or the measuring wheel together with the counter or rotary encoder is pressed by the own weight of the measuring system onto the surface to be measured. If this pressing force is not sufficient, a suitable device such as a spring arm or a mounting bracket with spring preload must be used.

To avoid falsification of the measuring result when driving via measuring wheels, care must be taken to keep the slip as low as possible. When selecting the profile (surface), the nature of the measured material, its extensibility, thickness and driving resistance must be taken into account. Furthermore, the slip is also influenced by the width of the measuring wheel, the contact pressure, the tensile stress in the material to be measured and the angle of contact.

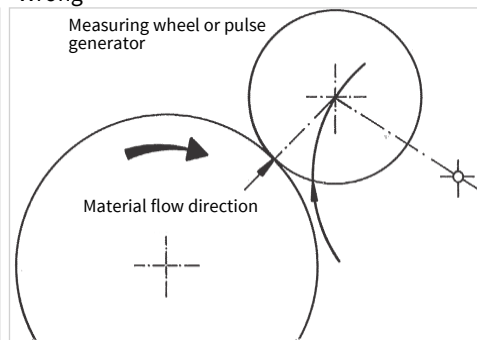
The wrap angle should be as large as possible. The wheel bodies consist of cast iron or plastic (according to marking).

The position of the measuring wheel should be selected so that the material flow direction is away from the bearing point of the encoder.

Correct



Wrong

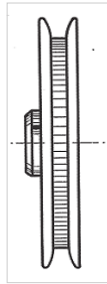


Errors and changes reserved

Datasheet	© Hengstler GmbH Umlandstr. 49 D-78554 Aldingen/ Germany +49 74 24 -89 -0 E-mail: info@hengstler.com Internet: www.hengstler.com	Page
Version 3 161120HF		1/3

TECHNICAL DATASHEET

Measuring wheels

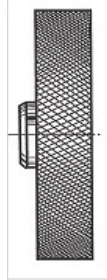


Profile 1

With edge and fine cross knurl
Material: aluminum

Application:

e.g. threads and yarns.

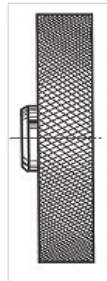


Profile 2

With glued-on profile rubber.
white pimpled rubber, especially adhesive rubber, low wear.

Application:

e.g. paper and cardboard, cable measurement, grease-free metals, fleece, raw or surface-treated wood, soft and hard plastics.

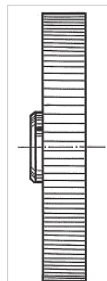


Profile 3

Rubber flooring with parallel knurled, vulcanized.

Application:

e.g. for rubber, leather, textiles, floor coverings, glass.

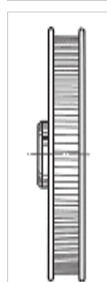


Profile 4

Aluminum with parallel knurl.

Application:

e.g. rubber, soft plastics, wood with rough surface, within limits also for textiles.

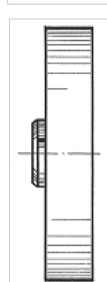


Profile 5

with edge, aluminum with parallel knurl.

Application:

e.g. threads and yarns, tapes.



Profile 6

Plastic flooring.

Application:

e.g. for wire, greased metals, steel profiles.

Errors and changes reserved

TECHNICAL DATASHEET

Measuring wheels

ORDER INFORMATION Aluminum

Diameter	circumference	Profile	Width of the Running surface in mm	Bore- Ø in mm	Item-number
6,37cm	0,2 m	1	4	4 H7	0 601 014
6,37cm	0,2 m	1	4	7 H7	0 601 017
6,37cm	0,2 m	2	12	4 H7	0 601 118
6,37cm	0,2 m	2	12	6 H7	0 601 048
6,37cm	0,2 m	2	12	10 H7	0 601 049
6,37cm	0,2 m	2	24	4 H7	0 601 020
6,37cm	0,2 m	2	24	7 H7	0 601 092
6,37cm	0,2 m	2	24	7 H7	0 601 192
6,37cm	0,2 m	4	20,5	4 H9	0 601 023
6,37cm	0,2 m	4	20,5	7 H9	0 601 093
6,37cm	0,2 m	5	16,5	7 H7	0 601 094
15,92 cm	0,5 m	2	25	7 H7	0 601 050
15,92 cm	0,5 m	2	25	7 H7	0 601 150
15,92 cm	0,5 m	2	25	10 H7	0 601 151
15,92 cm	0,5 m	3	25	7 H7	0 601 160
15,92 cm	0,5 m	3	25	10 H7	0 601 161
15,92 cm	0,5 m	3	25	12 H7	0 601 166
15,92 cm	0,5 m	4	25	7 H7	0 601 121 ¹
15,92 cm	0,5 m	4	25	10 H7	0 601 157
15,92 cm	0,5 m	6	25	7 H7	0 601 063 ¹
15,92 cm	0,5 m	6	25	10 H7	0 601 163
15,92 cm	0,5 m	6	25	12 H7	0 601 165
5,73 cm	1/5 yd.	2	24	4 H9	0 601 042
9,70 cm	1 Fuß	2	25	7 H7	0 601 171

¹ meets PTB requirements

ORDER INFORMATION Plastics

Diameter	circumference	Profile	Width of the Running surface in mm	Bore- Ø in mm	Item -number
6,37 cm	0,2 m	1	4	4 H8	0 601 100
15.92 cm	0,5 m	4	25	7 H8	0 601 301
15.92 cm	0,5 m	6	25	7 H8	0 601 300

Errors and changes reserved