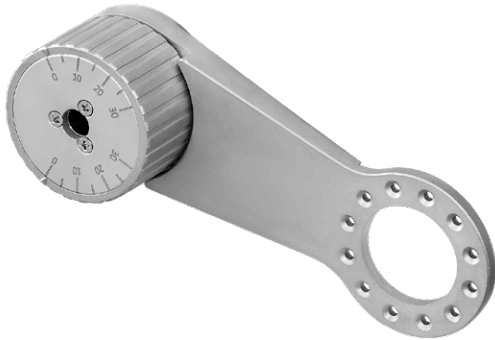


Measuring wheel systems

System components Performance-Line	Spring arm MWE50	Contact force max. 32.5 N
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For encoders with clamping flange ø 58 mm.

The MWE50 spring arm in combination with an encoder and a measuring wheel as measuring wheel system MWE51 or MWE52 is the ideal solution for reliable speed measurement, position detection and length measurement in applications with linear movements.

These measuring wheel systems impress with their versatile installation options and high ease of use. The preload can be manually adjusted in 6 steps from 5 to 30 N.

Features

• **Contact force up to 32.5 N**

With manually adjustable preload in 6 steps from 5 to 30 N. To compensate for tolerances, the integrated spring ensures a working range of the measuring wheel of ± 10 mm vertical to the measuring surface (at ± 2.5 N in relation to the respectively set preload). For maintenance, the spring can also be manually brought into a stress-free state.

• **Suitable measuring wheels**

Circumferences 300 mm or 12" – measuring wheel coating available with O-ring or double O-Ring, smooth or corrugated plastic, diamond knurl surface and tufted rubber.

• **Flexible mounting options**

The measuring wheel system can be installed vertically, horizontally or overhead. The encoder can be mounted on both sides of the spring arm in 30° steps.

Order code	8.MWE50	.1 X 1	.00	.0000	.0000
	Type	① ②			

- ① *For encoder with clamping flange*
 1 = ø 58 mm – Kübler Sendix encoder incremental KIS50, 5000, 5805
 – Kübler Sendix encoder absolute 586x, M586x, F586x

- Scope of delivery*
 - Spring arm
 - 3 screws for encoder mounting

- ② *Mounting bracket*
 1 = without mounting bracket
 2 = with mounting bracket

Accessories	Order no.
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Mounting bracket	Material: Aluminum	8.0000.7000.0072

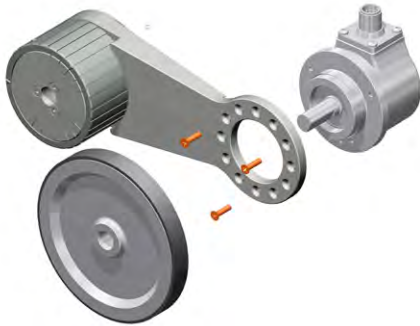
Measuring wheel systems

System components Performance-Line	Spring arm MWE50	Contact force max. 32.5 N
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Technology in detail (operating principle of the MWE50 spring arm in the MWE51 or MWE52 measuring wheel system)

Mounting options encoder on spring arm

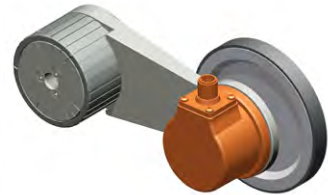
The encoder is attached to the spring arm with 3 screws.



The fastening points are designed in such a way that mounting on both sides of the spring arm is possible.



Mounting left (delivery state)



Mounting right

For a flexible outlet direction of the cable or connector, the encoder can additionally be mounted in 30° steps.



0° (delivery state)



30°



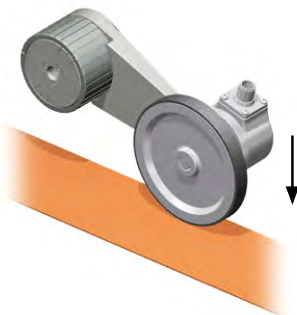
60°



90°

Various mounting options

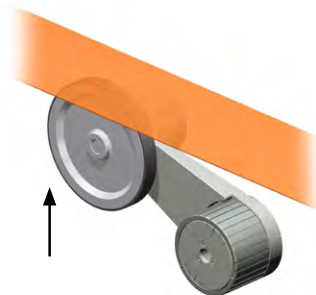
downwards



sideways



upwards (overhead)



Measuring wheel systems

System components Performance-Line	Spring arm MWE50	Contact force max. 32.5 N
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Technology in detail (operating principle of the MWE50 spring arm in the MWE51 or MWE52 measuring wheel system)

Setting the preload

- Position the measuring wheel system on the measuring surface and fix the corresponding screws in place.
- Pull off the setting wheel to the front.
- Turn to the desired position for the preload (possible in both directions).
- Arrow on the setting wheel points to the corresponding marking.
- Engage the setting wheel.
- Starting from the set preload, this results in a working range of ± 10 mm at ± 2.5 N.

Contact force of the measuring wheel on the material to be measured

① Preload in 6 steps ($\pm 20\%$)	② Contact force min. Operating travel -10 mm	③ Contact force max. Operating travel +10 mm
5 N	2.5 N	7.5 N
10 N	7.5 N	10.5 N
15 N	12.5 N	17.5 N
20 N	17.5 N	22.5 N
25 N	22.5 N	27.5 N
30 N	27.5 N	32.5 N

Measuring wheel systems

System components Performance-Line	Spring arm MWE50	Contact force max. 32.5 N
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Technical data

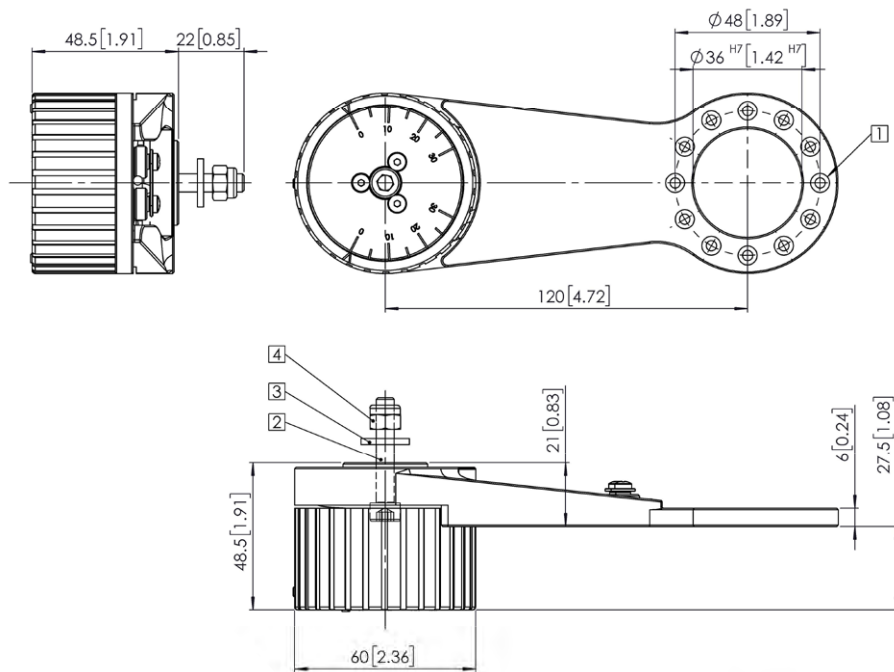
Mechanical characteristics spring arm		
Materials	spring spring bracket	spring steel aluminum
Weight	480 g	
Contact force, max.	32,5 N	
Praload, adjustable	5, 10, 15, 20, 25, 30 N	
Operating travel, max.	± 10 mm	
Working temperature range	-20 °C ... +70°C [-40 °F ... +176 °F]	
Spring operating life	2.0 Mio. cycles ²⁾	
Shock resistance acc. EN 60068-2-27	1000 m/s ² , 6 ms	
Vibration resistance acc. EN 60068-2-6	100 m/s ² , 55 ... 2000 Hz	

Approvals	
UL compliant acc. to	File no. E224618
CE compliant acc. to	RoHS guideline 2011/65/EU
UKCA compliant acc. to	RoHS Regulations S.I. 2012/3032

Dimensions

Dimensions in mm [inch]

- 1 DIN 74-Hm6
- 2 M6x35 allen bolt
- 3 Toothed washer
- 4 M6 nut



Mounting bracket

