IHAEHNE

Measuring Roll MUW

Scope of Supply

Measuring roll with two force sensors , each with 5 m cable (PVC). Cable connection variant depending on the sensor

Additional Option

F: For use in explosive areas, incl. J-Box

Additional Accessories Bearing support blocks

Available models of	vailable models of the measuring roll	
Dimensions	On customer request	
Other sensors	On request	
Material	Steel, stainless steel, aluminium	
Surface coatings		
	Chromium, nickel, teflon, rubber, plasma coated, hardcoated / anodized	
Surface structure	Fluted, grooved, rhombic, belt ground etc.	
Surface roughness	Standard: Rz 8 μm or on customer request	
Balance quality	Q 6,3 ; Q 2,5 ; Q1 (According to German standard VDI 2060)	

Ordering Example

MUW120-650-910-F Type Roll diameter Roll length (BL) Overall length (GL) Variants / Options



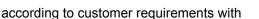
Special Features

- Measuring roll with mounted web tension sensors
- Measuring range from 200 up to 30 000 N
- Separate or joint measurement of bearing forces
- Cost effective compact design, simple installation
- Roll diameter and surface treatment according to customer specification

The measuring roll MUW is used to measure web tension forces, e.g. in moving webs of paper, textile, plastics, metal. The compact design enables quick and cost effective integration into OEM

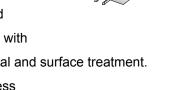
machines or retrofitting into existing machines. The MUW consists of the roll with shafts and the radial force sensors BZA or BZN.

Bearing support blocks LBZR are supplied on request. The roll can be delivered



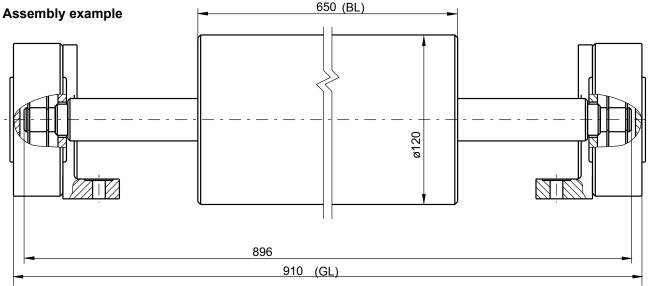
regard to dimensions, type of material and surface treatment. Rolls can be ordered in steel, stainless

steel or aluminium, also with coating. The measuring sensors can be mounted directly onto the machine frame or with mounting brackets.



MUW

Technical Data	Values (%) based on nominal force
Gradation of measuring range (see S	Sensor Product Description)
Max. operating force	160 %
Nominal rating (with Option F: J-Box necessary	1,5 mV / V
Combined error	0,5 %
Nominal ambient temperature	+10 + 60 °C / 32 140 °F
Operational temperature range	- 10 + 70°C / 14 158 °F
Nominal resistance of the strain gauge bridge	700 Ω
Bridge supply voltage	10 VDC
Enclosure protection	IP50
Special enclosure protection	On request



Dimensions in mm (1 mm = 0.03937 inches)

НАЕНМ

Assembly example

Maintenance

The system does not require any maintenance under normal operating conditions. In case of overload, however, review the zero force value. The devices may not be opened. No wear and spare parts result.

Use of explosion-proof sensors in measuring rolls

in hazardous areas of category II 2 G EEX ia IIC T4

Before mounting and commissioning the supplied documentation must be read carefully and understand. The described instructions must be followed. The installation and commissioning has to be carried out only by qualified persons. Before starting up, ensure that

- the compliance of velocity of the measuring roll is >1m/s

- a bleeder resistance of $<10^6 \Omega$ obtain from the measuring roll to the machine ground

In operation, the bearings should be checked regularly on running noise to detect early faults. During a plant shutdown the smooth-running of the bearings must be checked regularly. The bearings are maintenance-free, but must be replaced by the manufacturer after three years cause of the aging process of the bearing fat.

MUW PB EN 02_15.indd

Technical modifications reserved