

Product Description

Measuring Roll MUW

Special Features

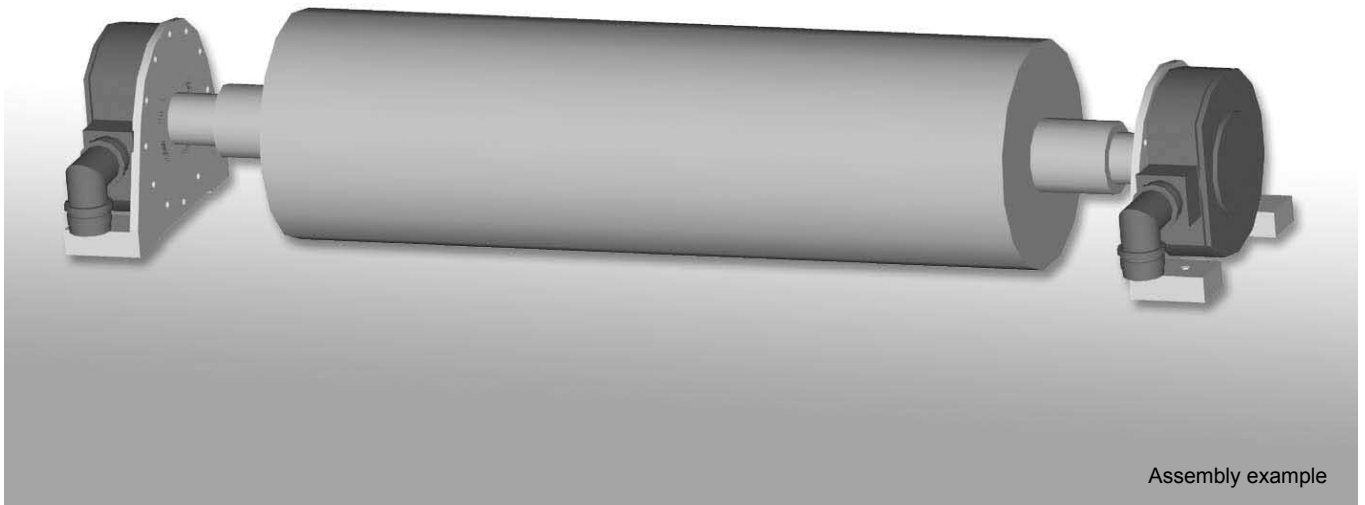
- ❑ Measuring roll with mounted web tension sensors
- ❑ Measuring range from 320 up to 12600 N
- ❑ Separate or joint measurement of bearing forces
- ❑ Cost effective compact design, simple installation
- ❑ Roll diameter and surface treatment according to customer specification

Scope of Supply

- Measuring roll with two radial force sensors each with 5 m cable (PVC) with plug or fixed

Option

- two bearing support blocks



Assembly example

Application

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.

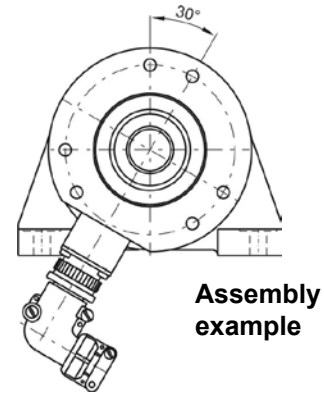
The **measuring roll MUW** consists of the roll with shafts and the radial force sensors BZR or BZA. Bearing support blocks LBZR are supplied on request.

The roll can be delivered according to customer requirements with 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 (available as accessories).

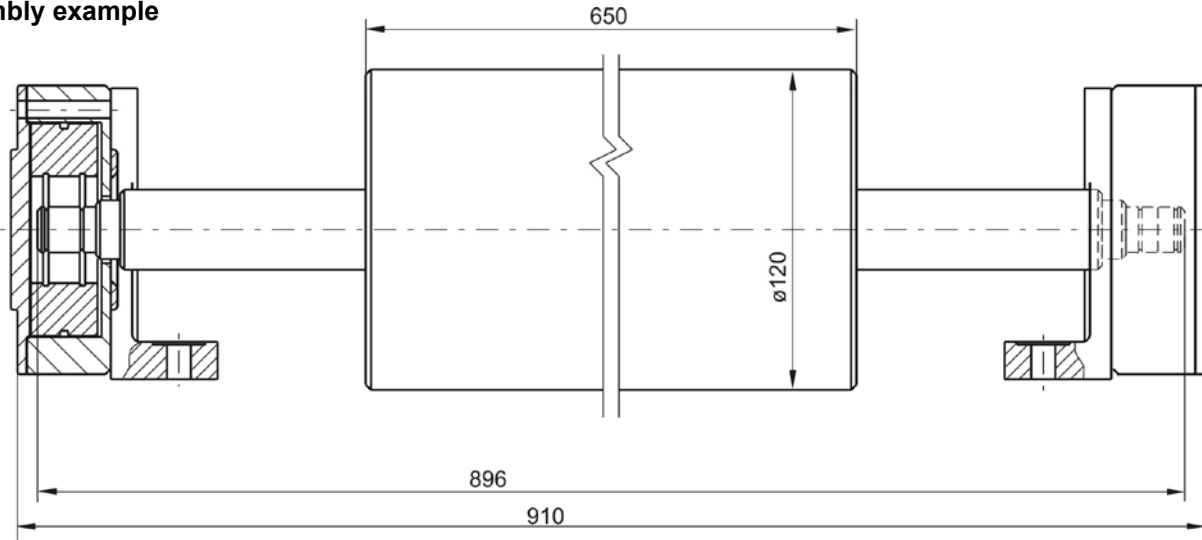
Technical Data

Standard enclosure meets:	IP 50
Special protection:	on request
Ratings (see product description BZR / BZA)	
Max. operating force :	160 %
Combined error:	0,5 %
Nominal ratings:	1,5 mV / V
Nominal resistance of strain gauge bridge:	700 Ω
Max. bridge supply voltage:	10 VDC
Nominal ambient temperature:	+10 ... +60° C
Operational temperature range:	-10 ... +75° C



*) based on F_{nom}

Assembly example



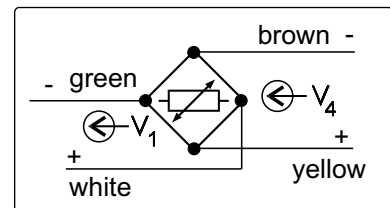
Maintenance

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.

Available models of the measuring roll:

Dimensions:	made to order
Material:	steel, stainless steel, aluminium,
Surface coatings:	chromium, nickel, teflon, rubber,
Surface structure:	fluted, grooved, rombic, etc.
Surface roughness:	standard : Rz 8 µm or customs made
Balance quality:	Q 6,3 ; Q 2,5 ; Q1 (according to German standard VDI 2060)

Sensor cable lead colors



V_1 : bridge output signal
 V_4 : bridge supply voltage

Ordering example:

MUW 120 - 650 - 910

