



B.N.C.TOOLING Co.,Ltd.

BNCTOOLING.COM
BNCTOOLINGSHOP.COM

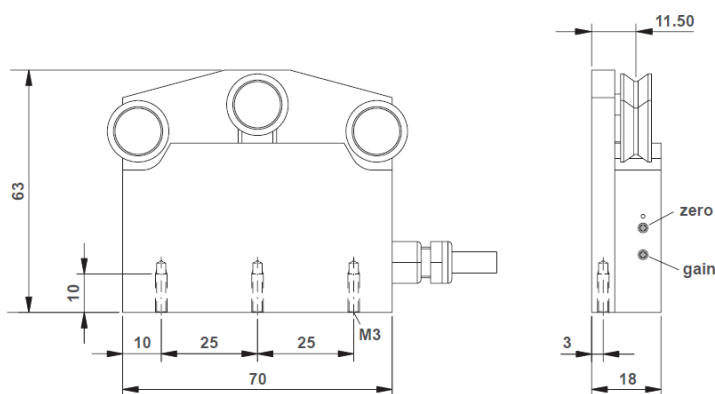
69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



Tension Meter

4 Tension ranges available
from 0 - 100 cN up to 0 - 1000 cN

Tension Meter MAZD / MBZD



Dimensions in mm

Dimensions

Specifications

Calibration:	SCHMIDT factory procedure
Accuracy:	± 2 % full scale and ± 1 digit
Other calibration material:	± 3 % full scale or better
Overload protection:	100 % of tension range
Measuring principle:	Strain gauge bridge
Measuring roller deflection:	Max. 0.5 mm
Signal processing:	Analog
Temperature drift:	Better ± 0.05 % Full Scale/ $^{\circ}\text{C}$
Output Signal:	Standard: 0 – 1 V DC (analog)
Option:	0 – 10 V DC (analog) or mV/V (DMS)
Output:	Shielded cable (2 m) with open ends
Damping (fg):	Standard (analog): 30 Hz (other values on request)
Temperature range:	10 – 45 $^{\circ}\text{C}$
Air humidity:	85 % RH, max.
Power supply:	+15...24 V DC, max. 21 mA regulated
Code A10:	max. +5 V DC, max. 20 mA regulated
Housing material:	Aluminium
Dimensions:	78 x 63 x 18 mm (LxWxH)
Weight, net (gross):	With cable approx. 200 g (approx. 300 g)

**Special Features MAZD**

- Tension sensor MAZD with integrated measuring amplifier and high accuracy of 2 % FS gently material path, it is guide over the rollers
- Material incoming / outgoing angle 35° min
- Various output signals
 - analog: 0 – 1 V DC (standard), 0 – 10 V DC (optional)
 - analog DMS: mV/V (optional)
- Universal mounting possibility – easy to install, even afterwards, on existing machines:
 - The sensor can be mounted using the three threads at the underside of the housing body. Alternative it can be fixed on a optional rail DIN EN 60715. A mounting adapter is necessary.
 - Easy calibration to customized material by operator – zero and gain calibration is required
- Measuring principle – loadcell with high quality strain gauge bridge

Standard Features

- Supplied with a 2 m shield cable with open Ends (other cable length on request)
- Tension sensor with aluminium housing
- Certificate of Compliance with the order 2.1 according EN 10204 is included
- Optionally available: Inspection Certificate 3.1 according EN 10204 with calibration report

Special Features MBZD

- Tension sensor MBZD with integrated measuring amplifier and high accuracy of 2 % FS
- Typical material path – warping the 3 rollers
- Various output signals
 - analog: 0 – 1 V DC (standard), 0 – 10 V DC (optional)
 - analog DMS: mV/V (optional)
- Universal mounting possibility – easy to install, even afterwards, on existing machines:
 - The sensor can be mounted using the three threads at the underside of the housing body. Alternative it can be fixed on a optional rail DIN EN 60715. A mounting adapter is necessary.
 - Easy calibration to customized material by operator – zero and gain calibration is required
- Measuring principle – loadcell with high quality strain gauge bridge

Available Models

Model	Model	Tension Range	Measuring Head Width*	Schmidt Calibration Material**
MAZD-100	MBZD-100	0 – 100 cN	70 mm	PA: 0.20 mm Ø
MAZD-200	MBZD-200	0 – 200 cN	70 mm	PA: 0.20 mm Ø
MAZD-500	MBZD-500	0 – 500 cN	70 mm	PA: 0.20 mm Ø
MAZD-1000	MBZD-1000	0 – 1000 cN	70 mm	PA: 0.30 mm Ø