

MKB Software Version 2.0

The Software MKB 2.0 for calculation of web tension measurement in running material webs, wires, cables, etc.

MKB Version 2.0 offers besides the well known features new additional functions that simplifies the calculation and selection of your appropriate sensors.

Suitable for: Windows 2000, XP, Vista, 7

Attention!

The use of this program MKB and the selection of sensors from the HAEHNE product program is at the user's own risk. In order to minimize the risks the user is requested to fill out the specification form and send it to the HAEHNE Company for review and confirmation.

Bearing support
1 or 2 sided

Angle input with 2 digits
after decimal point possible

Measuring direction freely
selectable, except for pillow
blocks

Mounting position of pillow
blocks choosable

Gain calculation possible

Gain calculator	
Nominal rating of sensor	1.5mV/V
Nominal force of sensor	100N
Differential sensor signal under web tension	10.61mV
Requested output	10V
Gain	942.81

Choose your parameters
and the output signal will
be calculated

The screenshot shows the software interface with the following elements and annotations:

- Input fields:** Web/Strip tension (100N), Roll weight (100kg), Roll weight unit (kg, lb, N), Bearing (Single sided, Double sided), Input angle (Angle 1: 0°, Angle 2: -136°), Measuring direction (Resultant force, Individual angle input), Measurement direction (0°), Pillow block mounting position (None, Bottom, Left, Top, Right).
- Results per sensor table:**

Total force	14.03N
Web tension portion	14.03N
Roll weight portion	0N
- Gain calculator:** Shows a gain of 942.81 based on sensor parameters.
- Diagram:** Shows a sensor (MD) measuring a web at angles A1 (0°) and A2 (-136°).
- Annotations:**
 - "Show explanation of wrap angle conventions" (circled)
 - "Angle description be displayed" (circled)
 - "Comfortable handling through the mouse" (circled)
 - "Export and saving function" (circled)
 - "Several languages" (circled)
 - "Recommendation for product selection" (circled)

Choose the product, that will fit to your application and the required forces

BZA
User-friendly aluminium sensor for a broad range of applications

Technical data	
Nominal force (Measurement range F _{nom})	100 - 5,000N
Shaft diameter	15 - 60mm
Max. operating force based on F _{nom}	160%
Absolute max. force based on F _{nom}	700 - 1,000%
Combined error	0.5%

KAT
Rugged and space-saving tension force sensor made of stainless steel for a large variety of requirements

Technical data	
Nominal force (Measurement range F _{nom})	25 - 630N
Absolute max. force based on F _{nom}	600%
Material	Stainless steel
Combined error	0.5%
Protection class	IP52

ZAK
Sturdy tension force sensor made of stainless steel for a large variety of requirements

Technical data	
Nominal force (Measurement range F _{nom})	10 - 1,000N
Absolute max. force based on F _{nom}	600%
Material	Stainless steel
Combined error	0.5%
Protection class	IP52

Look at the data sheet

Choose your preferred sensor for your final specification

Send a request without choosing a product

Specify your requirements for your inquiry

Additional mechanical specification (optional)
Shaft diameter
Roll diameter
Specified pillow block bearing

Sensor ambient conditions
Higher temperature: No Yes °C
Aggressive media: No Yes
Higher protection class: No Yes
Distance sensor - amplifier > 20m: No Yes m
Sensor environment: Dry Wet
Explosion proof (ATEX): No Yes
Amplifier environment: Electronic cabinet Field mounting

Measuring amplifier
Strain gauge amplifier signal output: -10...0...+10V 4...20mA
Controller requested: No Yes
Fieldbus interface: Profibus Ethernet IP DeviceNet CC-Link No fieldbus interface
 Profinet IO EtherCAT CANopen Other fieldbus interface

Remarks

We request Consulting Catalogue Quotation Number of pieces

Company Name
Street Telephone
Postal code Email
City Date

Print Save.pdf Send email

Is there more information about the mounting situation?

Which output signal do you need?

We are happy to contact you personally, if you give us your contact information

Save or print your inquiry for your documentation

Send an email request to us