

Load Measurement Sensor -- **Mobile Weight Watcher System**

ABSOLUTE Weight Measuring with a load sensor

1. *Calculating stopping force of Safeties, traction and other brakes – In ELVI 2*
2. ***Surveillance of rope tension -- to control rope and traction sheave wear.***
3. ***Set equal tension in all ropes/belts***
4. ***Weighing cars and CWT's – Easier and reliable.***

Rope Load Measurement Sensors

Sensor LSM1



dia:
1/4 - 5/8 Inch
6 - 16 mm
range:
0 - 1,100 lbs
0 - 500 kg

Sensor LSM-XL



dia:
3/8 - 15/16 Inch
9.5 - 24 mm
range:
400 - 4,500 lbs
200 - 2,000 kg

Sensor LSM2



dia:
5/32 - 3/8 Inch
4 - 10 mm
range:
0 - 660 lbs
0 - 300 kg

Sensor LSM-Belt (available for belts, Otis, Schindler and tkE type)



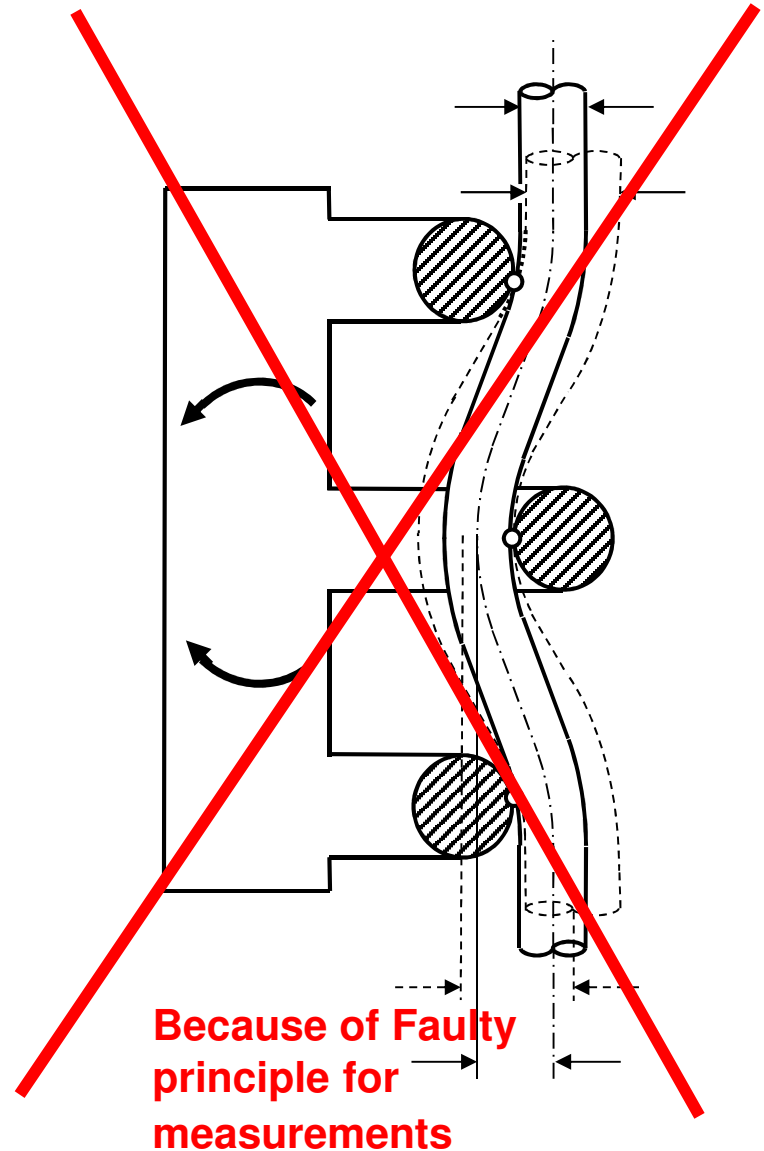
Belt width:
30 - 60 mm
range:
0 - 1,100 lbs
0 - 500 kg

Other methods that fail....



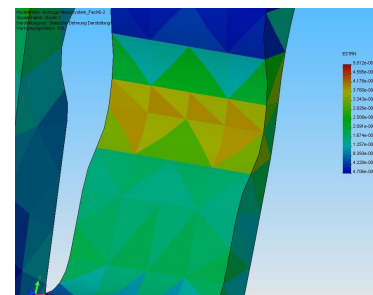
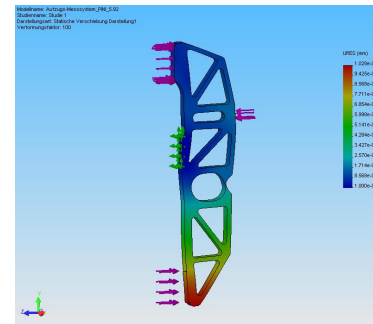
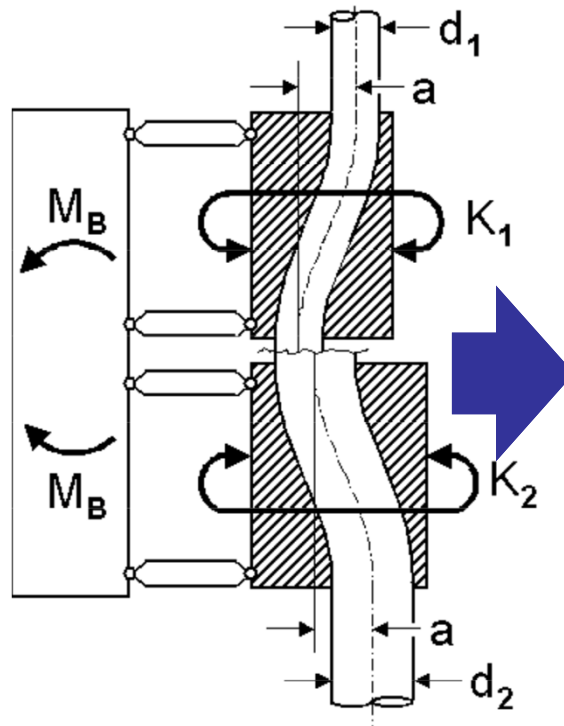
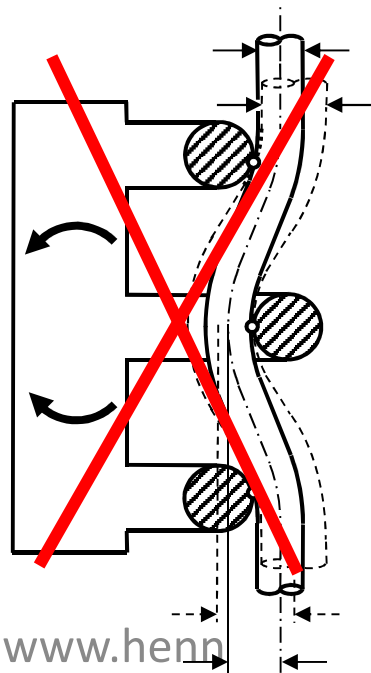
Accuracy +/- 5 % (max. - 25 %)

wurtec



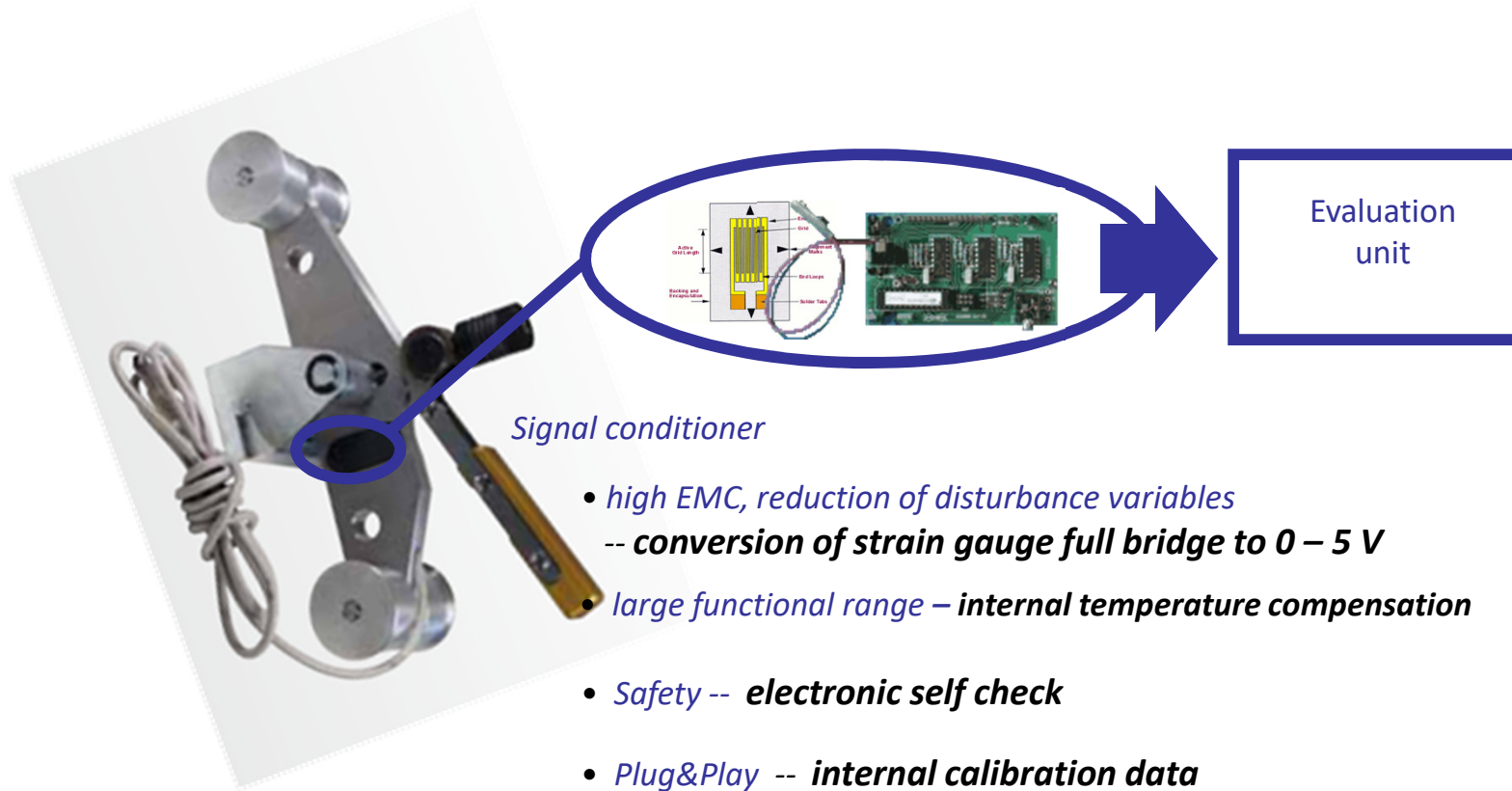
henning
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The measuring principle – Henning Patented -- engineered method



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Electronic Realization



Training focus: Key things to know...

- ▶ Measurement method works and is reliable
 - Accurate within +/- 2.5% of full scale
 - 0 – 1100 lbs. (500kg) = 27.5 lbs. (12.5kg) and statistical offset
 - 440 lbs (200kg) – 4400 lbs. (2000kg) = 110 lbs. (50kg)
 - As reliable (or more) than crane scale suspension...
- ▶ Right tool for the job – correct sensor for load measurement range; not just the diameter, load being measured is critical
- ▶ Take care not to force or abuse the sensors – electro-mechanical component, take care so you know they are working
- ▶ Field method testing sensors in calibration
 - Reasonableness comparison
 - Cal Checker Rod for LSM-XL

