

Furnace Strip Tension Measurement Unit

FEATURES

- For strip tension measurements in a continuous furnace
- Accuracy better than 0.1% of the maximum strip tension
- Non sensitive to thermal expansion of the deflecting roller
- Non sensitive to side load forces
- Based around standard KIS loadcells, low spare part cost
- Easy maintenance and calibration
- Custom design adapted to existing bearing blocks, no need of adapter plates



APPLICATIONS

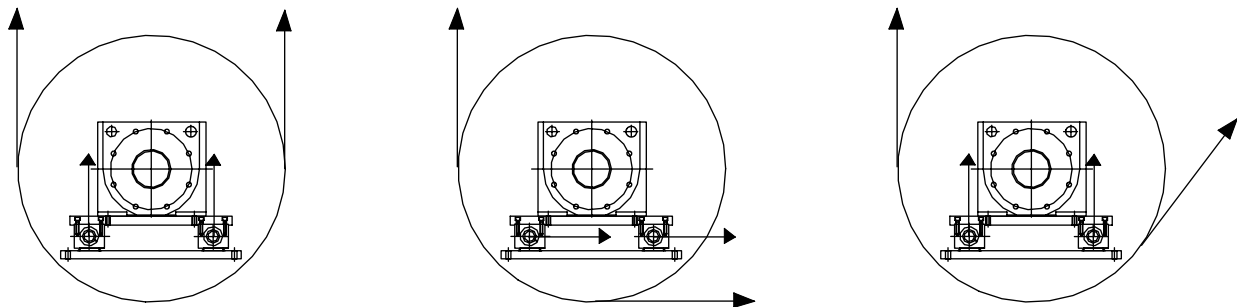
- Strip tension measurement in continuous furnaces for hot galvanizing lines and annealed lines

DESCRIPTION

The PST has been specially designed for strip tension measurement into a continuous furnace for high accuracy at both maximum and minimum tension.

The PST tensiometer is using four standards KIS load cells into a specific arrangement which makes the PST tensiometer totally non sensitive to axial forces and bending moments induced by the deflecting rollers due to high thermal expansion.

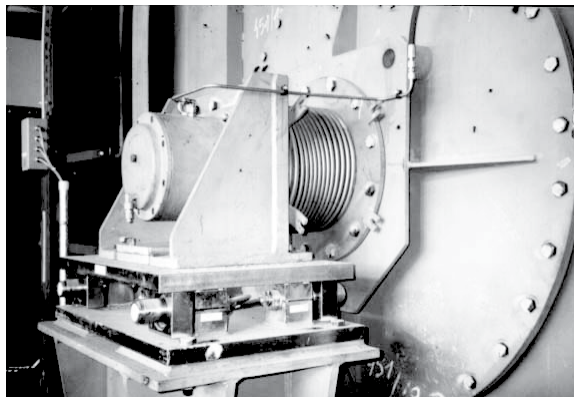
OUTLINE DIMENSIONS



What ever is the profile of the strip tension on the measuring roller, what ever is the mechanical mounting of the measuring roller on the new or existing furnace, the PST will be mechanically adapted to the customer application

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APPLICATION EXAMPLE



Tensiometer PST-80 kN under a furnace roller

SPECIFICATIONS

PARAMETER	VALUE
Capacity	20, 40, 80, 120 and 200 kN
Accuracy error/repeatability	Better than 0.1% RO
Accuracy error/repeatability (with one dummy load cell)	Better than 0.5% RO
Input voltage, recommended	5–10 VDC or VAC
Input voltage, maximum	18 VDC or VAC
Rated output (RO)	2 mV/V
Temperature range	-40 to +80°C (100°C available as option)
Electrical connection	Shielded four conductor cable or connector
Materials	Load cells stainless steel, mechanics yellow chromate zinc plated or stainless steel

BLH Nobel is continually seeking to improve product quality and performance. Specifications may change accordingly.



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