

Sendzimir Shapemeter

INNOVATION BY DESIGN

Design, Fabrication, Installation, Maintenance

Sendzimir's shapemeter measures tension in multiple zones across the strip width and displays the shape of the strip, which is otherwise impossible to see when rolling strip under tension.

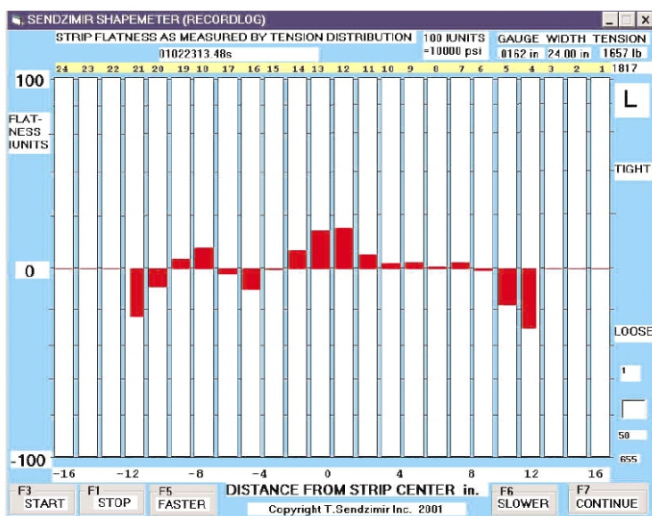
Narrower Mills -The Sendzimir Shapemeter was originally designed as a low cost option for narrower mills, even though we have successfully supplied 50" or greater shapemeters of this design.

Advantages:

- Extremely Compact 4 inches (100mm) wide - all components of the shapemeter are very small enabling the units to be fitted into very restricted areas
- Self-contained assembly mounted inboard of deflector rolls
- Simplicity of design able to be offered at highly competitive price
- Each sensor is a stationary load cell
- Retracts vertically out of the way for threading (optional depending on installation)

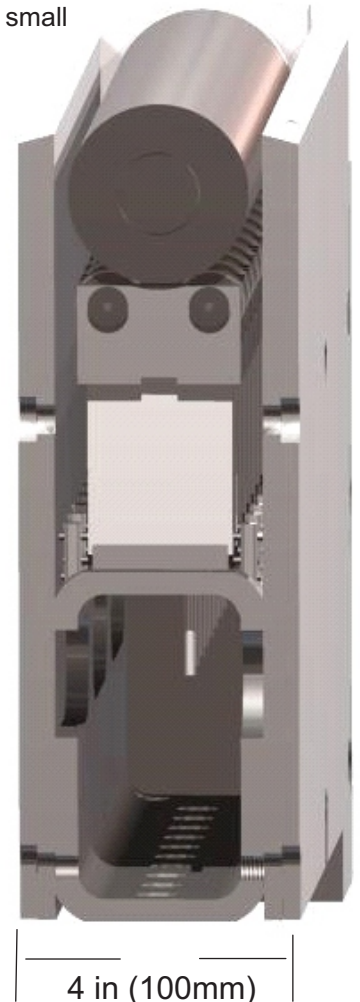
Specifications for Sendzimir Shapemeter:

Shapemeter Type.....	segmented roll, stationary sensors
Sensor Roll Diameter.....	2.5 in (63.5mm) - 4.125 in. (104.8mm)
Strip Thickness.....	0.001in. or less
Strip Width.....	80in. (2032mm)maximum 5 in. (127 mm) minimum
Rolled Material.....	all metals
Tension.....	up to 2,000 lb/in (36 daN/mm)
Number of Zones.....	width dependent. Min 5, max 40
Zone Width.....	1 to 2.5 in. (25.4 to 63.5mm)
Wrap Angle.....	0.5 to 5 degrees (fixed per application)



Readings from the shapemeter, which are generated at a rate of about 10 scans per second, are displayed on a color monitor at the operator's station. Each red column refers to a specific measuring zone. The examples here show how the shapemeter can show flatness defects that are entirely invisible to the naked eye during rolling.

The photo on the left shows the strip edges are loose (normal practice) and there is a tight zone in the center of the strip.



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