The Segmented Tension Roll transducer is a specialty idler roller that measures tension on multiple individual web strands in a slitting and rewinding environment, or at multiple points across the width of a single web in a converting or film winding application.

The Segmented Tension Roll can also be used for inspection of the tension profile on incoming roll stock. A converter can quickly check for substrate non-compliance on purchased rolled material by setting up a tension-profile monitoring station at Receiving or Incoming QC and rejecting defective material before it reaches processing.

The standard segmented roll transducer consists of a dead shaft having multiple idler rolls mounted on it. Each roll segment has integral tension sensors in both ends. Electrical connectors are installed on the shaft, as a group, at one end of the unit. The standard roll is aluminum with a smooth plain finish. Other finishes are available by request. The shaft is mounted in a carrier frame and has one or more supports placed between rolls.

The SR is available in two frame sizes; size 1 and size 2. The size 1 SR has a 3” diameter standard roll, and the size 2 SR has a 4” diameter standard roll. The maximum number of segments is limited to ten for the size 2 transducer and five for the size 1. The minimum number of segments is two. Maximum shaft length is 120”.

BENEFITS/FEATURES:
- Measure tension on parallel web strands or at multiple points across a wide web
- Choose length to fit machine or press frame
- 50:1 Effective load sensing range
- Load ratings from 12 - 400 lbs (55 - 1800N)

OPTIONS
- Environmental Connector (EC). Seals with mating cable electrical connector to protect against contact oxidation; especially useful in corrosive environments.
- Extended Range Output (XR). Extra sensitive at low tensions. Electronics must also have extended range.
- Non-Lubricated Bearings (NLB). No lubrication for bearings. For lowest drag torque. Not recommended by DFE and may void warranty.
- Oiled Bearings (OB). Oil instead of grease for lubrication. Not recommended by DFE and may void warranty.

ORDERING INFORMATION:
You may order from description or by specifying the code below by matching each labeled digit with one of the choices given. Example: STR2-4-03-15-.25-200-OB,XR

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OPTIONS
- Environmental Connector (EC)
- Extended Range Output (XR)
- Non-Lubricated Bearings (NLB)
- Oiled Bearings (OB)
- Steel Roll (SR)
- Stainless Steel Roll (SSR)
- Special (Z)

NOTES: 1. Maximum Shaft length = 120”.
2. Indicator must have XRE option.
Stable tension control compensates for process deviations that cause web and roll defects. It's a fact. Dover Flexo tension measurement components or a closed loop control system can be integrated smoothly into your press' web path in only the tension zones that need them.

For fast information complete and fax this form to DFE at (603) 332-3758. Or call us at (603) 332-6150.

Name _______________________________
Company_____________________________
Address______________________________
City_____________ State___ Zip_______
Tel. ______________ E-mail ______________

We manufacture/process (material):
__________________________________________________________________________

The project we're considering involves:
__________________________________________________________________________

☐ Send me your recent white paper on: “Improving Web-Processes with Direct Tension-Sensing”

Please send:

☐ Product Guide (14 page overview)
☐ DFE catalog (80 page 3-ring binder with complete product specs)
☐ CD ROM with product CAD library
☐ Tension Transducer data sheets
☐ Indicator/Transducer interface data sheets
☐ Tension Controller data sheets
☐ Pneumatic Brakes Catalog
☐ Application Note/Case History on: ____________________________________________
☐ Data sheet on:__________________
☐ Other:__________________________
☐ Have a Sales Rep call me