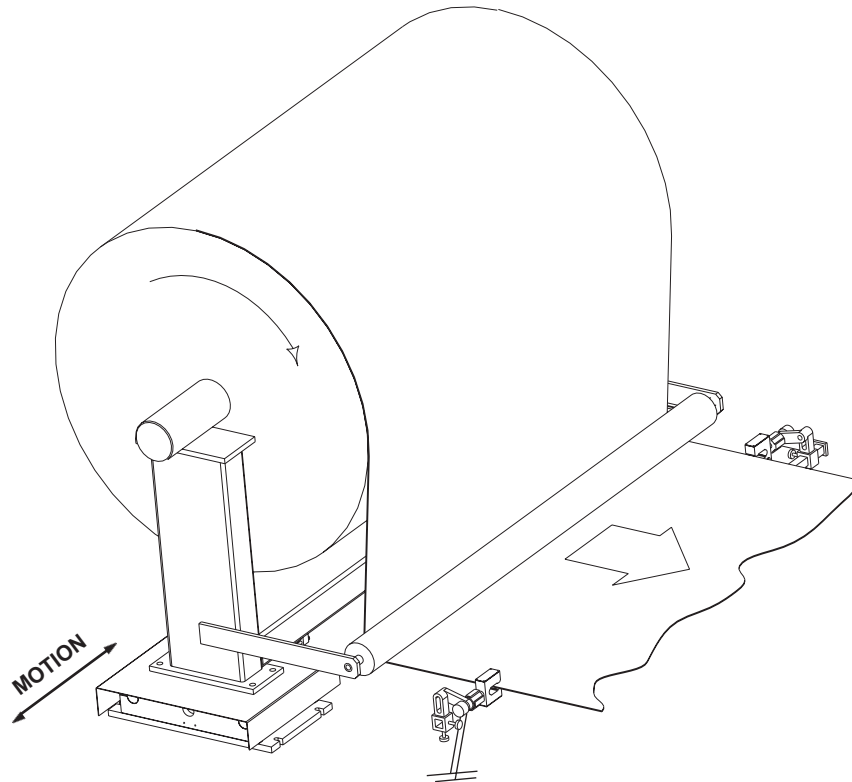


TYPICAL UNWIND GUIDE



An unwind guide is used at the beginning of a process line to maintain lateral position of the web going into the process line. The detector is mounted just after the shifting stand idler roll. The idler roll is attached to the shifting stand.

Unwind guidelines:

- The stroke of the shifting stand must be greater than the maximum unwind roll edge position variations.
- The actuator must be sized to accelerate the inertia of the roll, overcome the friction in the shifting stand and have sufficient velocity to keep up with the maximum rate of change of the unwind roll edge position.
- The detector must be placed just after the idler roll and be stationary.
- The wrap angle in the idler roll must be large enough to prevent the web from slipping. The break angle should be greater than 60°. The idler roll must be attached to the shifting stand.
- The shifting stand must be stiff enough to prevent any resonance of the system.

Note: These are generally accepted guidelines in the guiding industry. There may be situations where the above guidelines do not apply. Please consult with a Fives North American application engineer for your specific application.