



Turret Unwinds

CURRENT CHALLENGE

Conventional unwinds with accumulators can limit production speeds, produce wrinkled material web paths and occupy large areas of much-needed factory space.

JOA SOLUTION

JOA's turret unwinds feed material into the machine process and splice running material to new material without slowing the production speed. Some of the main turret highlights include:

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Contact your sales representative or email marketing@joa.com.

1. No Accumulator

At-speed Splicing

- When the turret detects that the running roll is nearly empty, the new roll on the lower spindle accelerates from zero speed to the running roll speed.

Smaller Footprint

- The turret design allows for the unwinds to be located above the machine process, reducing the machine's footprint.

Reduces Web Wrinkling

- Without an accumulator, the turret unwinds offers shorter web paths. With shorter web paths there is less tension on the material web, reducing the chances for wrinkles in the web.

2. Detection

Splice Tape Detection

- The turret must verify the splice tape's location twice before splicing to the new material roll, ensuring accuracy and reliability.

Integrated Diameter Detection

- The unwind system can detect the amount of material left on a roll, consistently initiating a splice that leaves only a minimal amount of excess material on the roll.

Damaged Roll Detection

- The unwind can detect if a roll is too damaged to properly splice. If this occurs, a warning alarm and message is sent to change the roll.

3. Flexibility

High Speed & Standard

- Choose between the standard model capable of up 450 meters/minute or the high-speed model, capable of up 600 meters/minute

Multiple Materials

- The turret unwind is compatible with both spooled rolls and single-wound material.

Guarding

- Available with fence guarding or polycarbonate guarding

Cutting Systems

- Available with cut wire or sling blade cutting system

4. Components

- Upper spindle
- Lower Spindle
- Turret
- Bump arm
- Tape position detection sensor
- Roll diameter sensor
- Cut wire/sling blade
- Push-button station
- Splice warning horn
- Splice warning light

