



FEATURES

- Fully-automated roll loading and expired roll discharge
- Restricted safety area on machine equipment platform (MEP), equipped with a badge reader for authorized personnel
- No personnel required on MEP for roll loading
- Roll preparation on floor level

COMPONENTS

- Crane
- Mast
- Tape Camera
- Distance Sensor
- Loading Spindle
- Removal Spindle
- Camera
- Push-button and pendant control stations

FLEXIBILITY

- Integration with material well or vertical reciprocating conveyor

Automated Roll Loading System (ARLS)

Joa's ARLS technology automates both the roll-loading and expired roll discharge process. This allows for roll preparation on the floor level and eliminates the need for roll-loading personnel on the machine equipment platform. ARLS follows a simple process:

1. The ARLS senses when a turret runs low on material and moves to align its back spindle with the turret's lower spindle.
2. The unloader pulls the empty roll core from the turret to the back spindle of the ARLS unit.
3. The ARLS then rotates and loads the new material roll from its front spindle onto the turret, pushing the new roll with its unloader.
4. The unit then moves away from the turret, releasing the empty core roll into the material well.
5. ARLS moves to a new roll, either in the material well or in a vertical reciprocating conveyor, and picks up a new material roll to be used when the next turret needs new material.

