



PROJECT: Flexible Leaf Assembly

Automated assembly and web handling cell including two unwind locations, tension control system, trim slitting, servo controlled payout rollers, and an ultrasonic welding head. Two independent webs are unwound for supply rolls by independent payout nip systems. Webs are then accurately cut to length and ultrasonically welded together by the servo positioned ultrasonic head. Each completed assembly is automatically discharged from the machine. Operator interface panel allows easy creation and storage of multiple standard part setup recipes and quantities as well as custom recipes for short runs.

FEATURES:

- Supply roll gantry loading system
- Automatic web splice detection and discharge
- Inline and cross-machine direction shear and crush-cut slitting
- Diameter-based tension control systems
- Lightweight air shafts combined with self closing safety chucks
- Simple part setup and recipe storage
- Servo controlled payout systems
- Servo positioned ultrasonic welding head
- Web marking system
- Automatic machine stop upon lot completion

BENEFITS:

- Fully-automated assembly process
- Improved part consistency
- Eliminated subcontracting of assembled parts
- Allows JIT inventory

