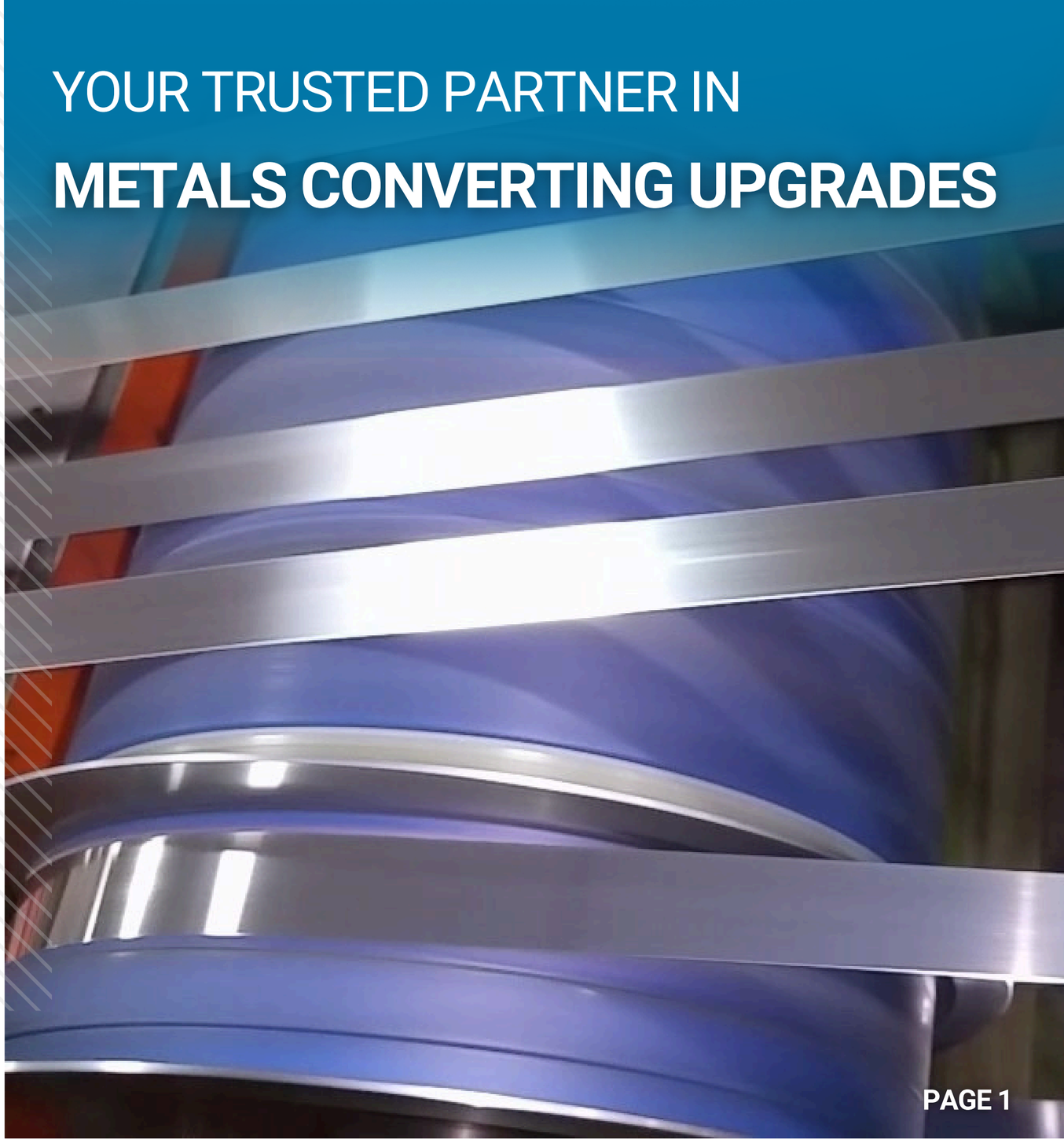
ELECTRONIC DRIVES and CONTROLS

YOUR TRUSTED PARTNER IN METALS CONVERTING UPGRADES

- Full Slitting Line, Multi-motor Drive and PLC Upgrades
  - Uncoilers (plus conversions from braked to motorized)
  - Bridles
  - Loop Feedback & Control
  - Slitters
  - Scrap Winders
  - Dancers
  - Tension Stands
  - Recoilers - Pancake, Gang Winders and Multi-stand Traverse Winders
  - Packaging Equipment
- Additional Metals Industry Applications
  - Leveling of Sheets and Plates
  - Painting of Coiled Web Materials
  - Plating of Coiled Web Materials
  - Heat Treating of Web and Strip
  - Size Reduction Mills
  - Materials: Steel, Copper, Aluminum, Alloys, Foils, Strips, Coils



ELECTRONIC DRIVES and CONTROLS

YOUR TRUSTED PARTNER IN METALS CONVERTING UPGRADES

- Applications/Specialties
  - Increase of Line Speed and/or Tension
  - Taper Tension
  - Addition of Tension Zones
  - PID Control
  - Temperature Control
  - Conversion of individual TCUs to PLC/HMI control with Recipes
  - DC-to-AC Conversions including motor and mechanical retrofits

SPECIALIZING IN **UNCOILERS**

SPECIALIZING IN
UNCOILERS

SPECIALIZING IN

ACCUMULATORS

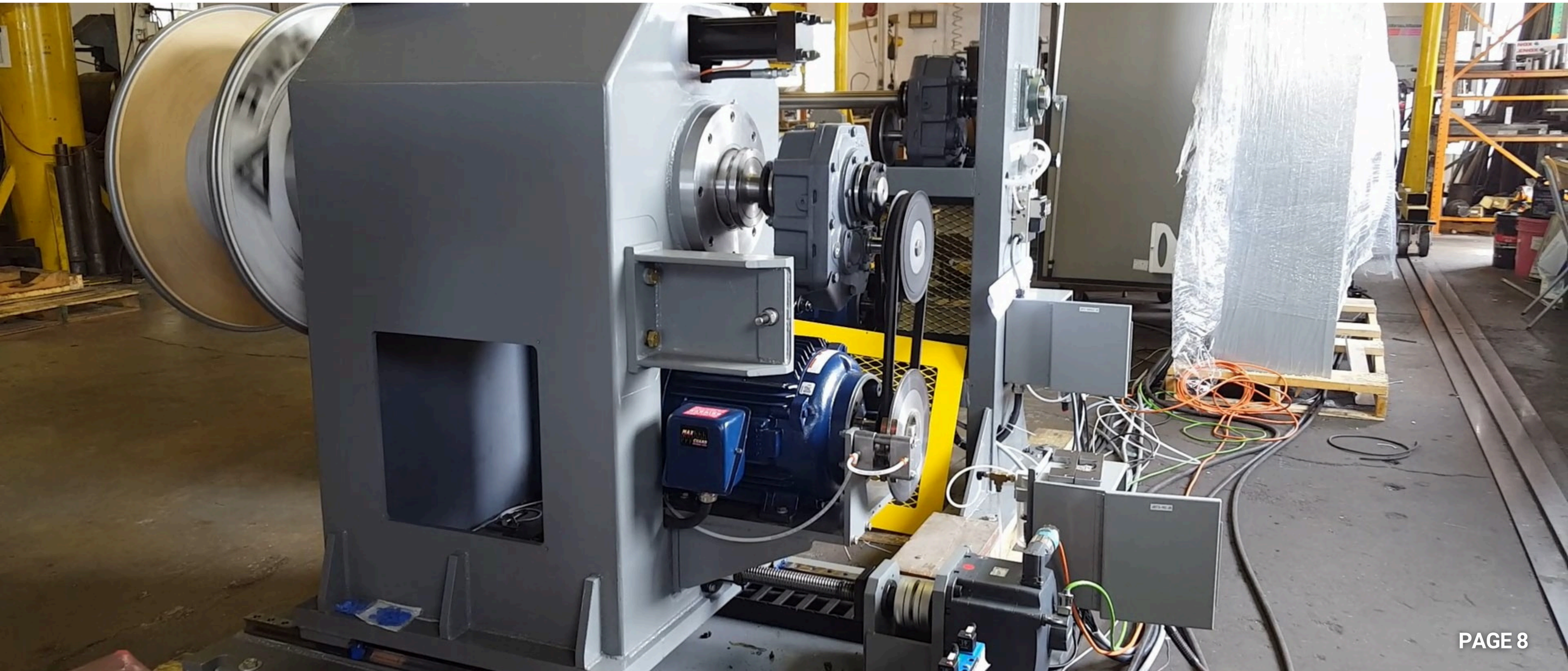
SPECIALIZING IN

SLITTER CONTROL RETROFITS

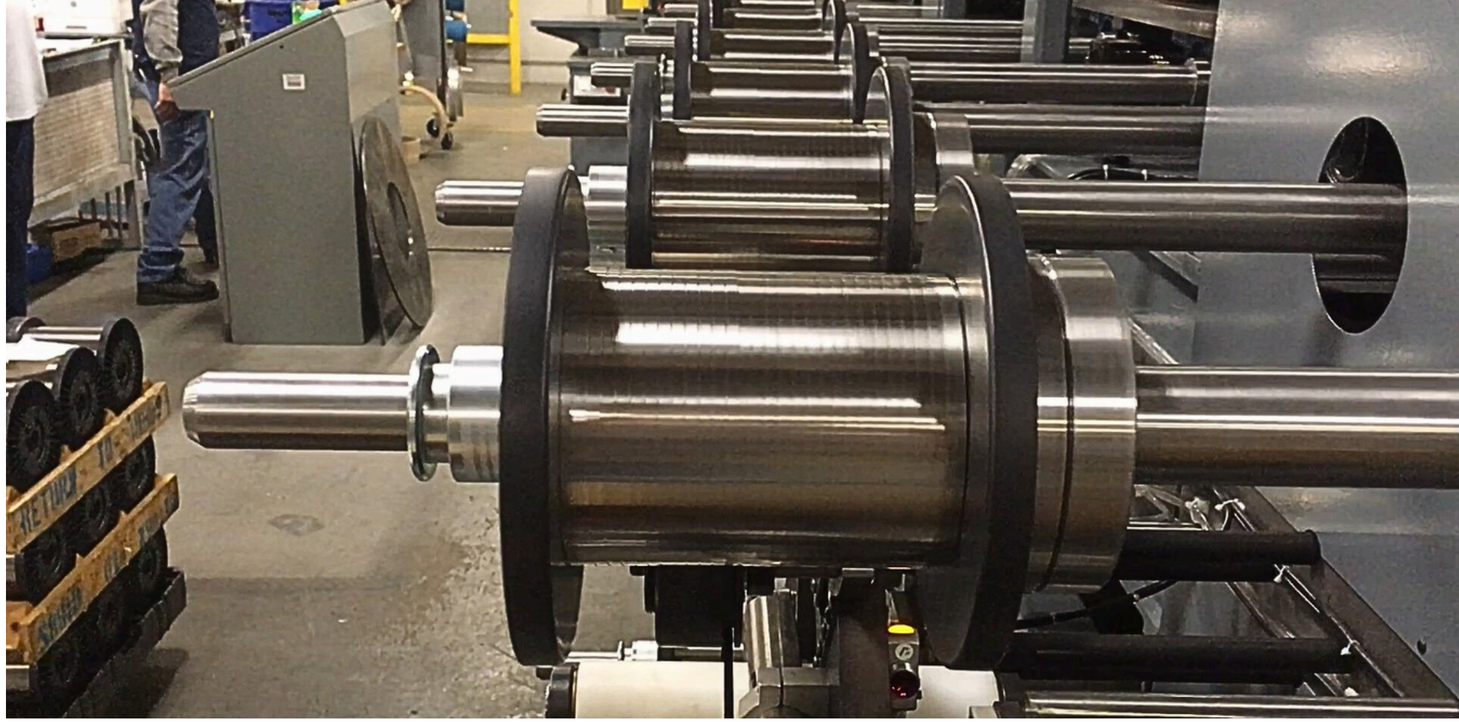
SLITTER CONTROL RETROFITS

SPECIALIZING IN

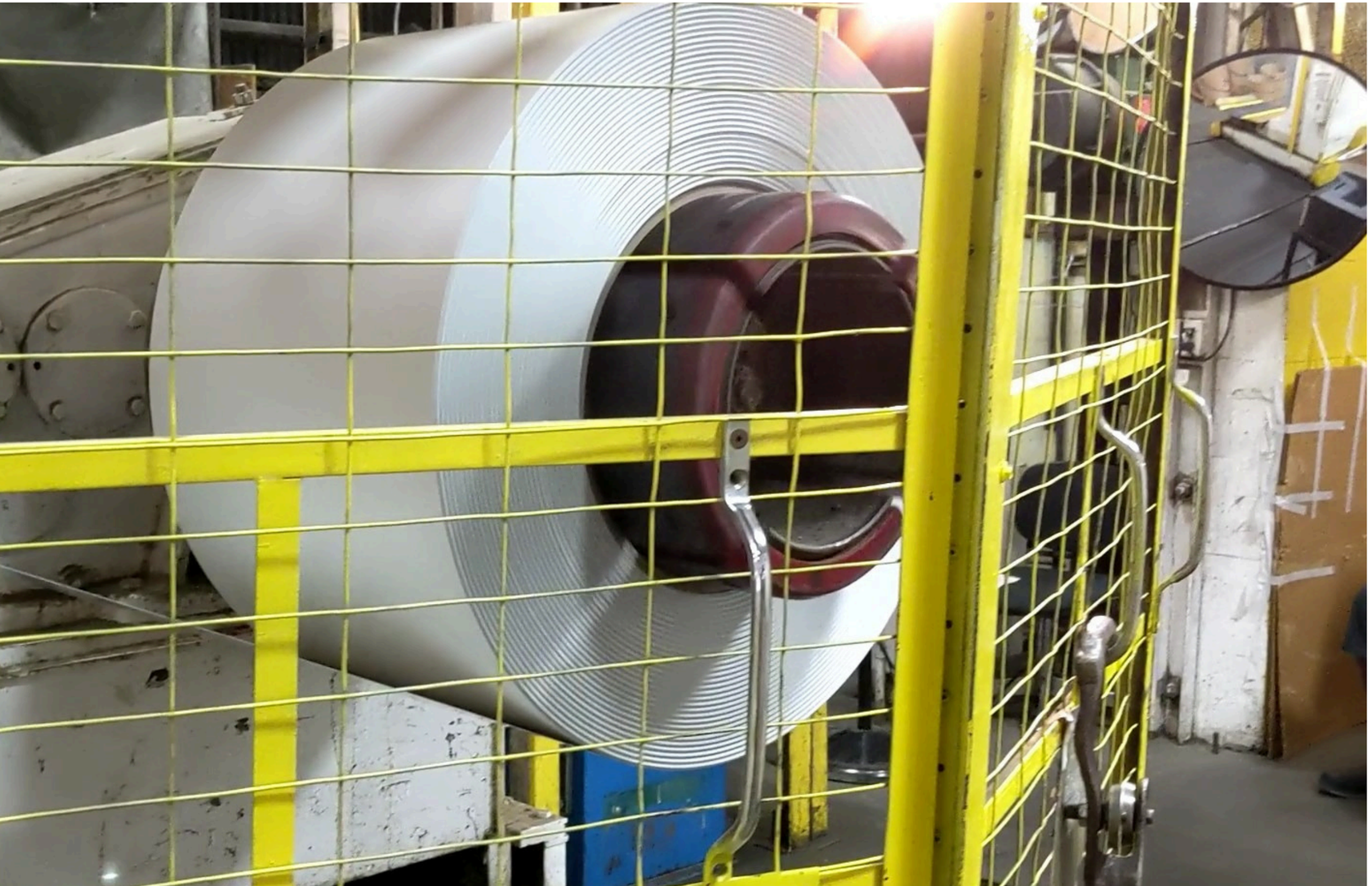
TRAVERSE WINDING

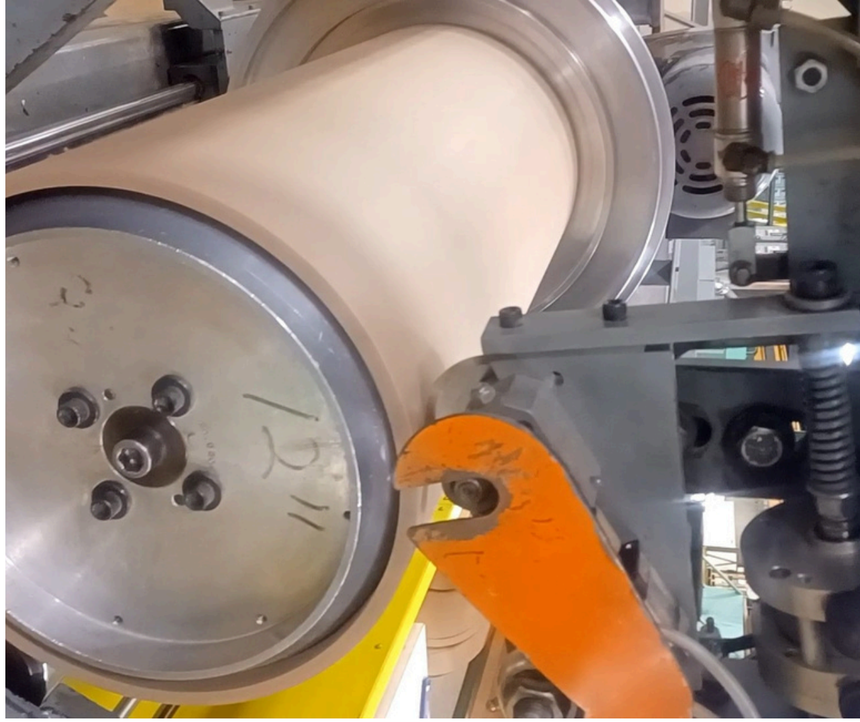


TRAVERSE WINDING



SPECIALIZING IN **RECOILERS**





SPECIALIZING IN
RECOILERS

SPECIALIZING IN

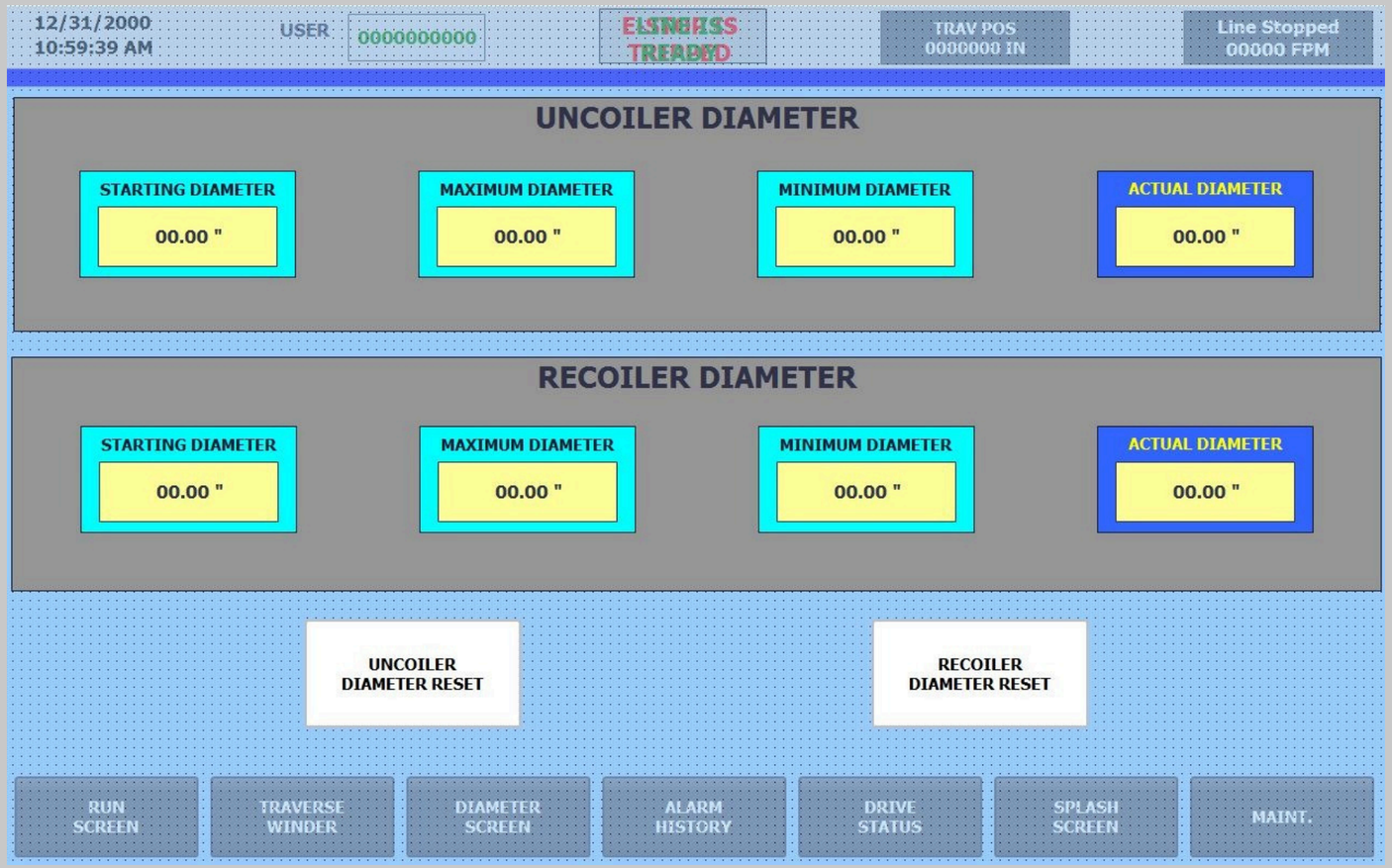
OPERATOR STATION UPGRADES

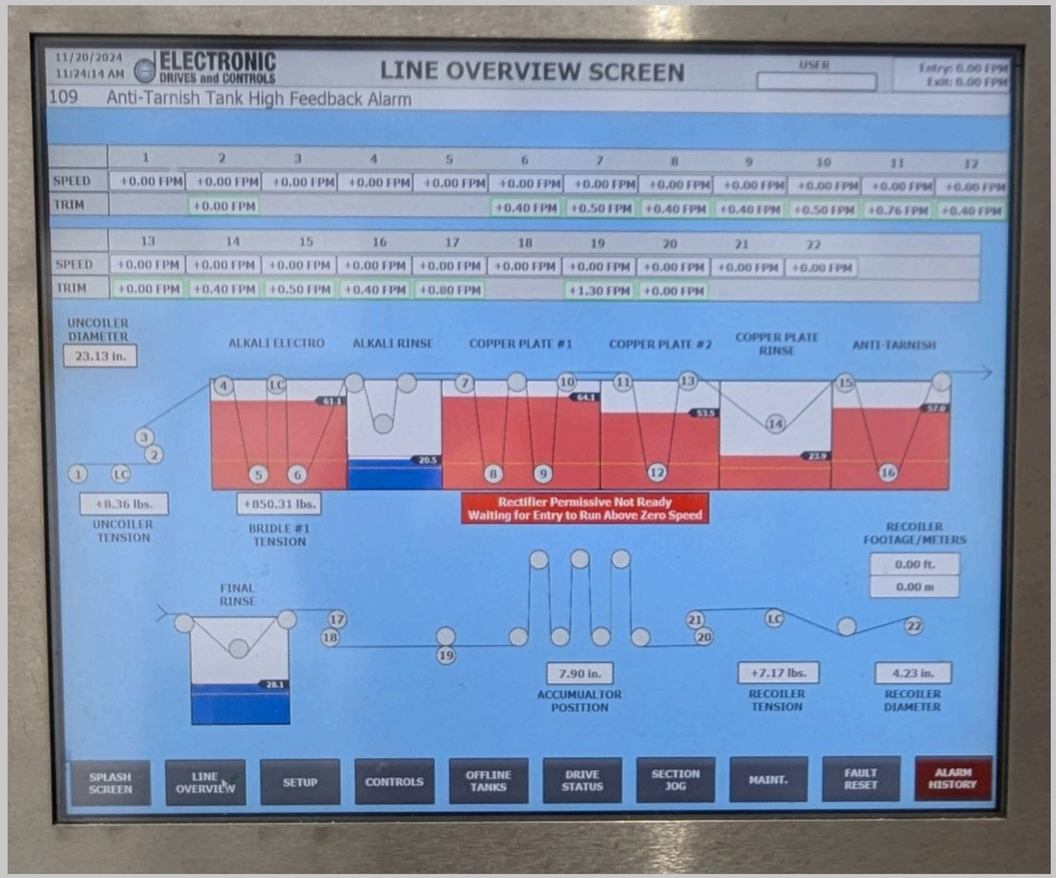
BEFORE

AFTER

SPECIALIZING IN

USER-FRIENDLY HMI SCREENS

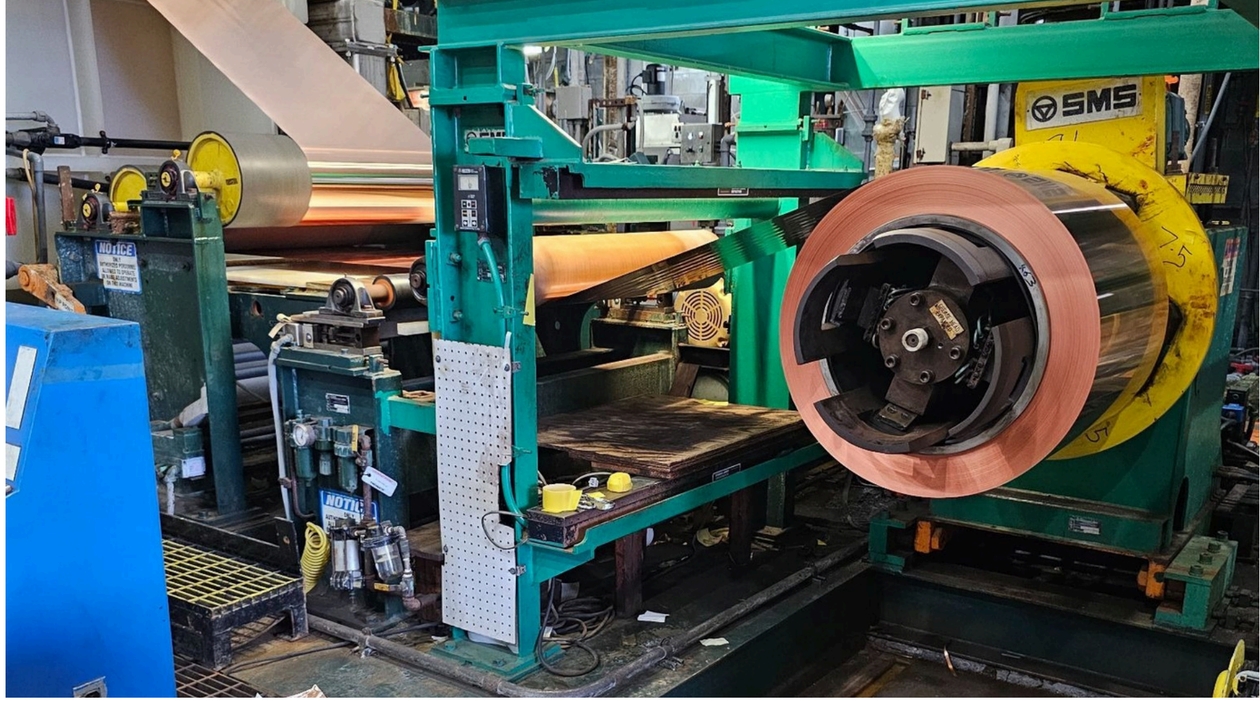




PROJECT

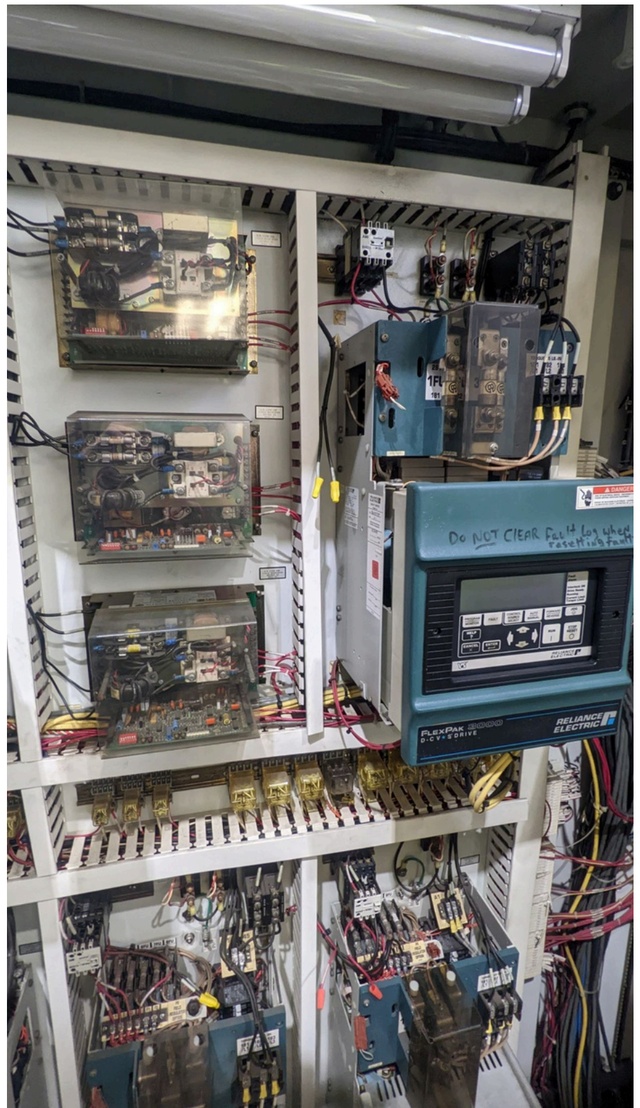
COPPER PLATING LINE UPGRADE

- Converted obsolete AB PLC5 to Siemens S7-1500-F Failsafe PLC
- Converted 22 Obsolete FlexPak DC drives to Siemens S120 AC Vector on regen DC bus
- Added discrete, analog and failsafe remote I/O
- Provided mechanical modifications for DC-to-AC motor retrofits
- Removed and replaced control panels onsite
- Integrated 50+ buttons, switches, meters and displays into user-friendly HMI



COPPER PLATING LINE UPGRADE

PLC & DRIVE ENCLOSURES



COPPER PLATING LINE UPGRADE

MAIN OPERATOR CONTROL STATION RETROFIT

BEFORE

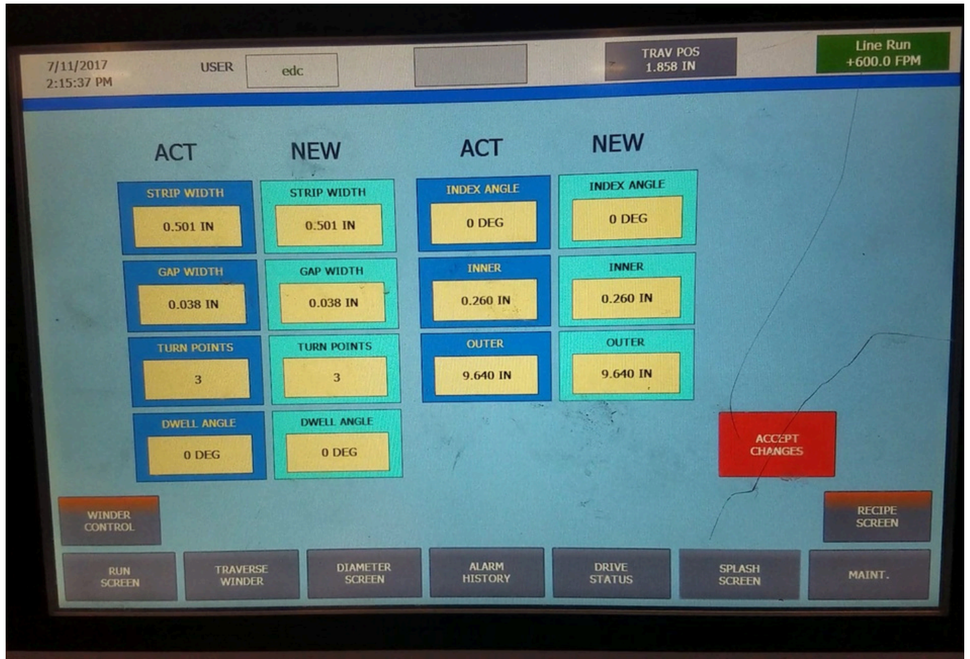
AFTER

TRAVERSE WINDER RETROFITS

OMEGA WIND ALGORITHM

- Superior PID control utilizing hydraulic actuators or servo-driven ballscrews
- Configurable Turn Points, Gap, Dwell and Kick-out
- Encoder or Temposonics linear position feedback
- Rockwell or Siemens capabilities

OMEGA WIND
BY ELECTRONIC DRIVES AND CONTROLS, INC.



TRAVERSE WINDER CONVERSION:
HYDRAULIC → SERVO

EDC retrofitted six traverse winder stands with linear ballscrew actuators and servo motors to eliminate hydraulics and improve reliability utilizing their industry-proven Omega Wind control algorithms

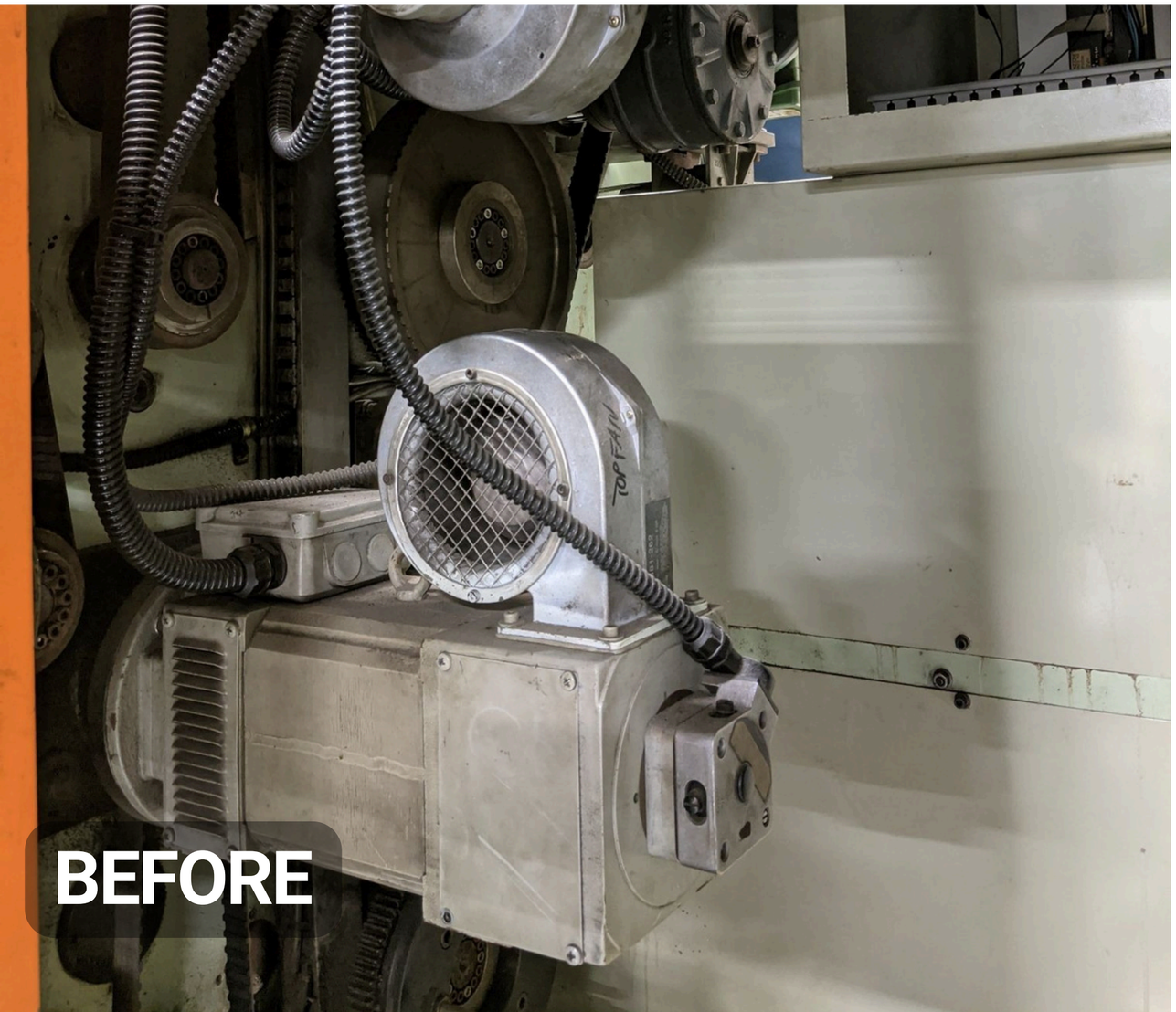
OMEGA WIND
BY ELECTRONIC DRIVES AND CONTROLS, INC.

Traverse Winder Stand with original hydraulic actuator and controls

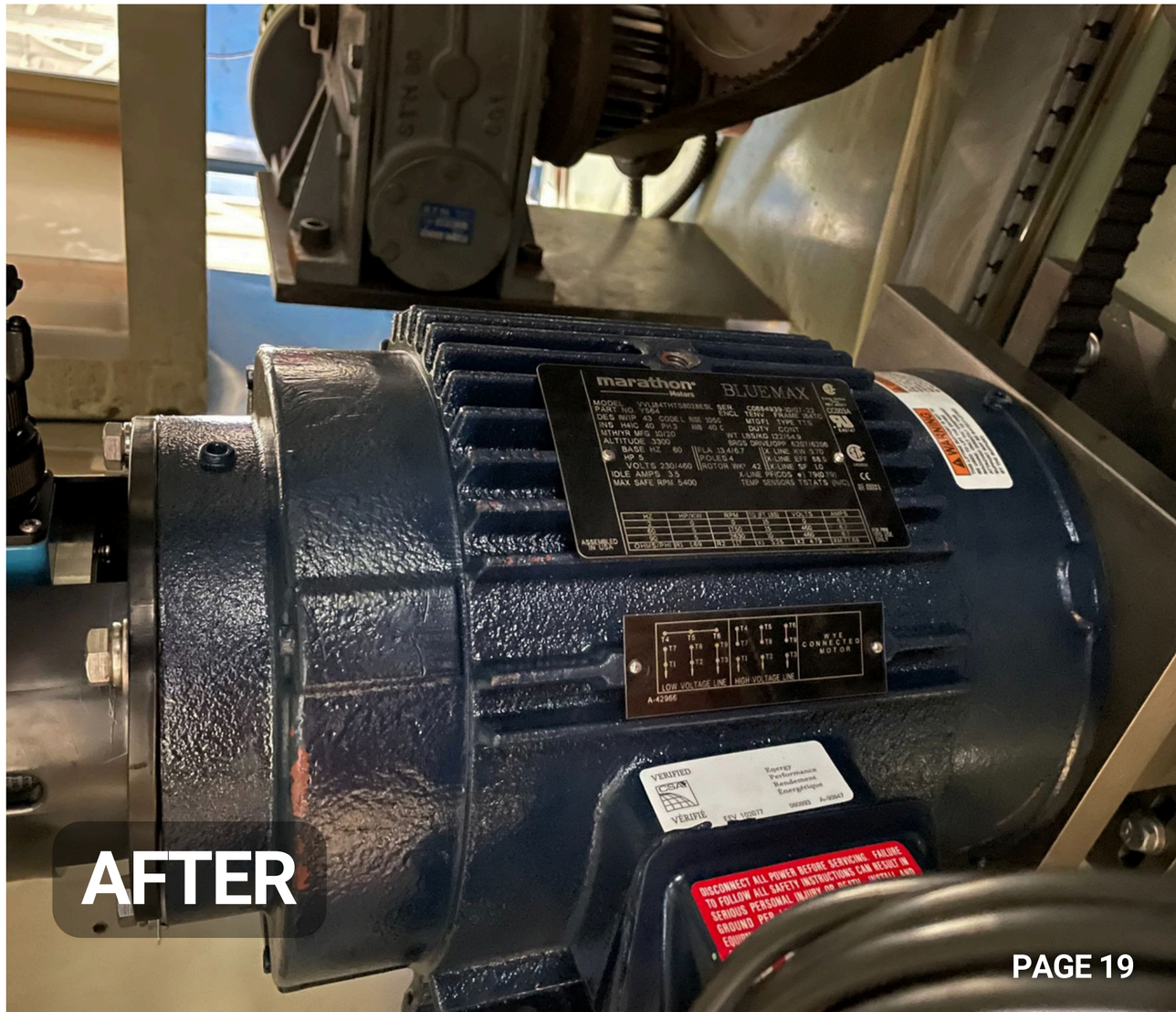
Upgraded Traverse Winder with ballscrew actuator and servo motor

PROJECT:

DC-TO-AC MOTOR RETROFITS / MODS



BEFORE



AFTER

CAPABLE OF BUILDING MULTIPLE PROJECTS SIMULTANEOUSLY

EDC'S LARGE MANUFACTURING FACILITY

INDUSTRY CREDENTIALS

CERTIFIED & RECOGNIZED INTEGRATION

Solution Partner

Automation Drives

SIEMENS

REGISTERED PROFESSIONAL ENGINEER

PE

Rockwell Automation

Recognized System Integrator

SYSTEM INTEGRATOR GIANTS 2026

UL 508A INDUSTRIAL CONTROL PANEL FABRICATOR

csia CERTIFIED