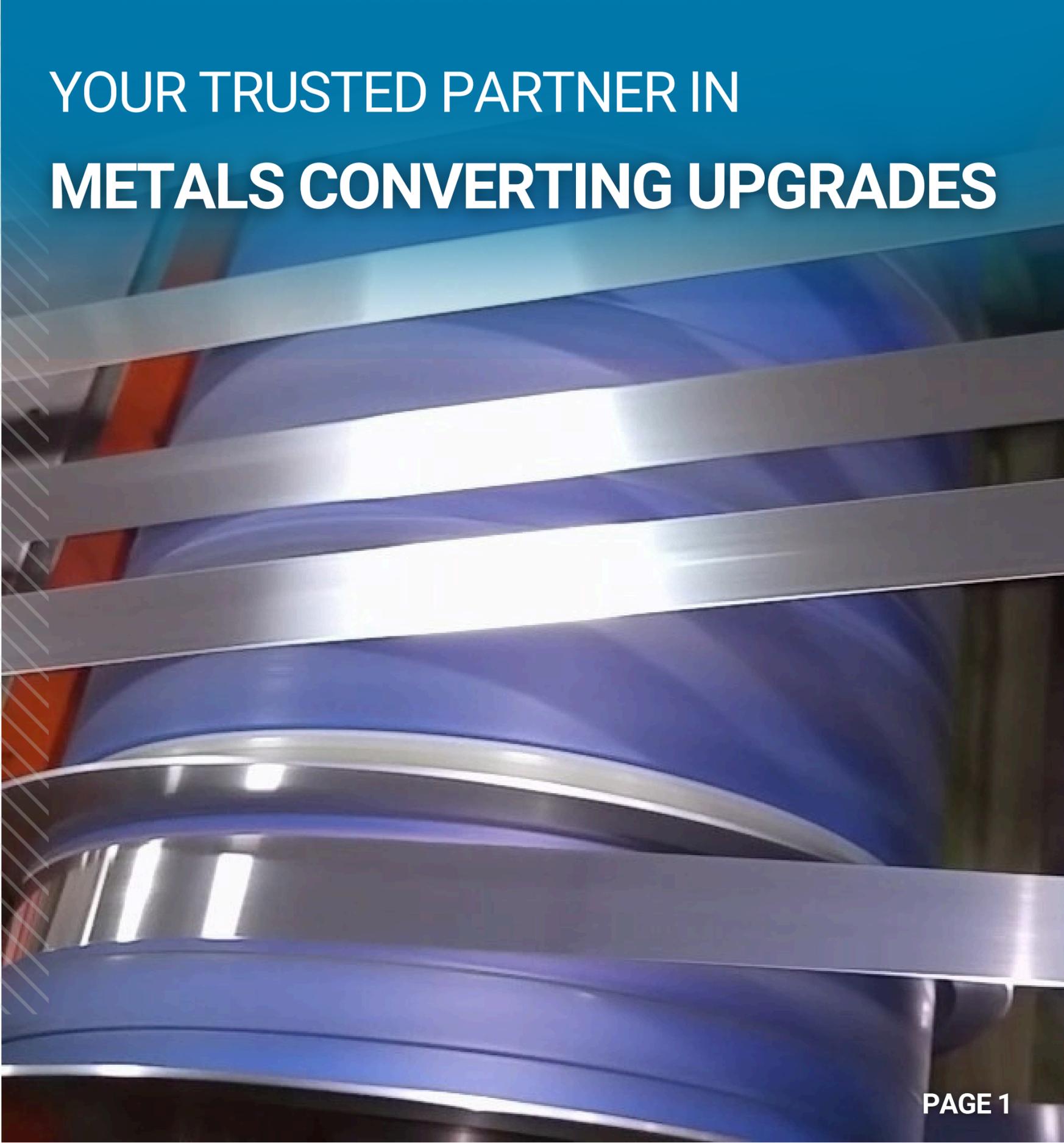


- Full Slitting Line, Multi-motor Drive and PLC Upgrades
  - Uncoilers (plus conversions from braked to motorized)
  - Bridles
  - Loop Feedback & Control
  - Slitters
  - Scrap Winders
  - Dancers
  - Tension Stands
  - Recoilers - Pancake, Gang Winders and Multi-stand
  - Traverse Winders
  - Packaging 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



## YOUR TRUSTED PARTNER IN METALS CONVERTING UPGRADES

- Applications/Specialties

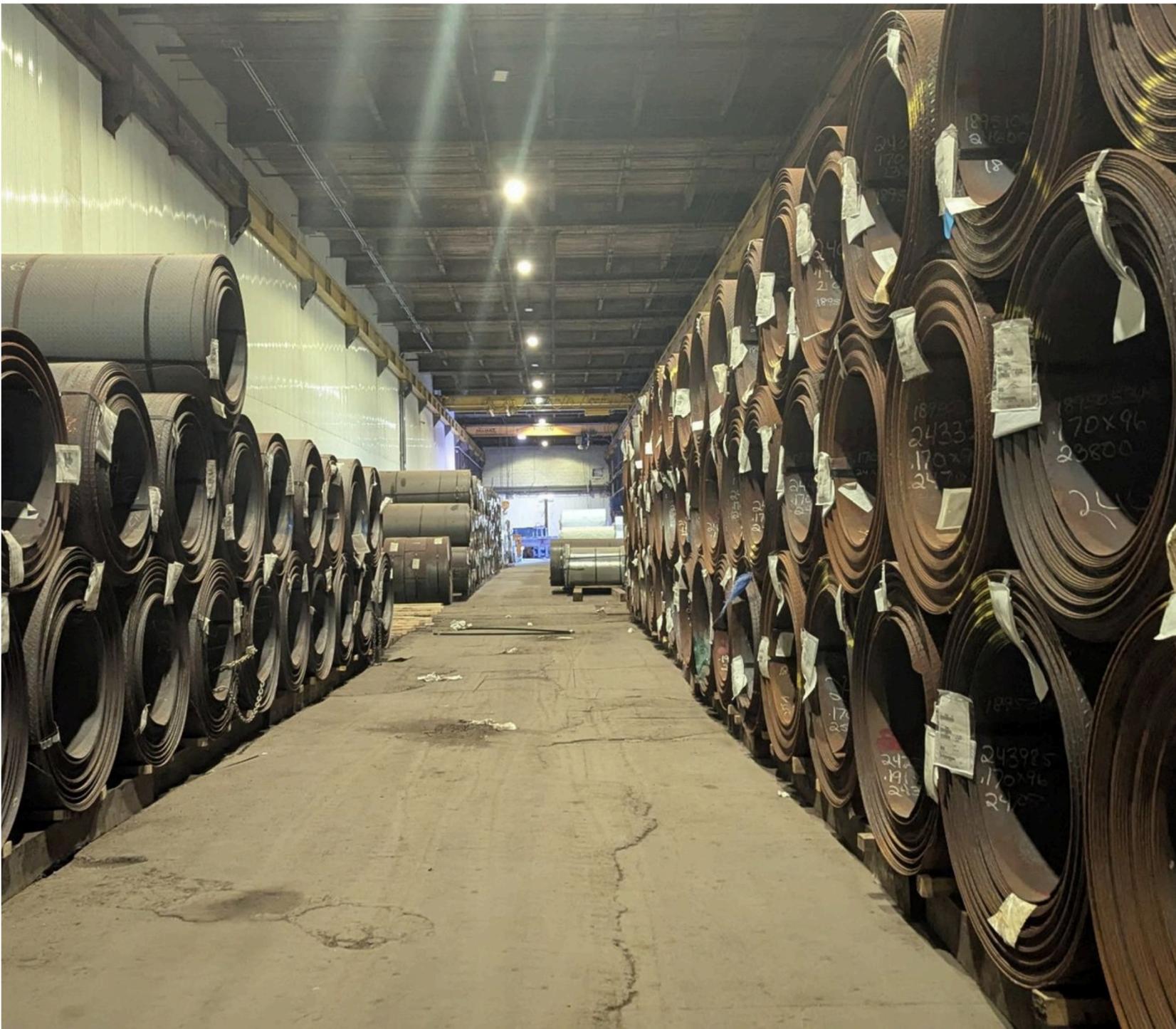
- Increase of Line Speed and/or Tension
- Taper Tension
- Addition of Tension Zones
- PID Control
- Temperature Control
- Conversion of individual TCUs to PLC/HMI control with Recipes
- DC-to-AC Conversions including motor and mechanical retrofits

# YOUR TRUSTED PARTNER IN METALS CONVERTING UPGRADES





# SPECIALIZING IN UNCOILERS





# SPECIALIZING IN UNCOILERS



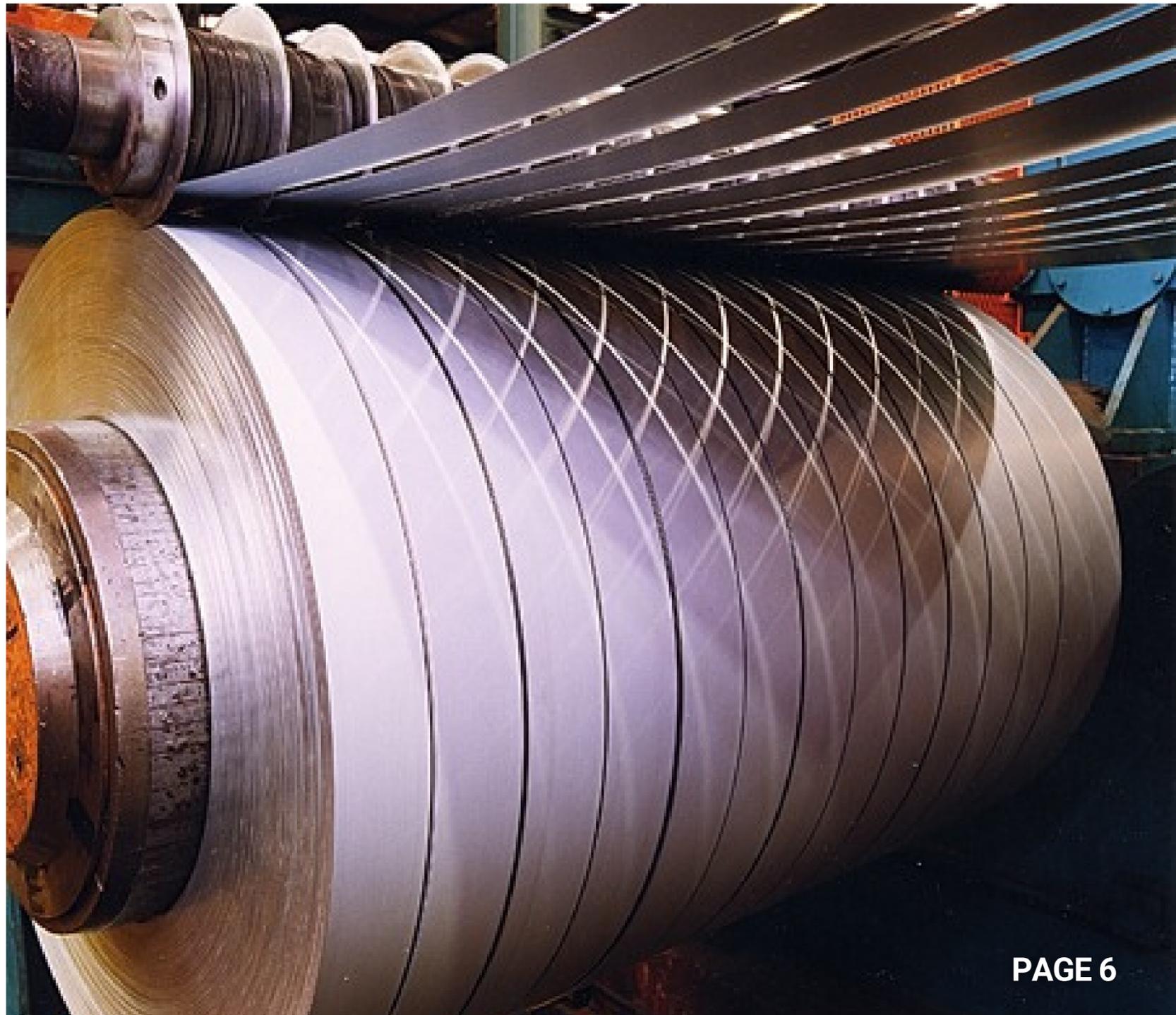


# SPECIALIZING IN ACCUMULATORS



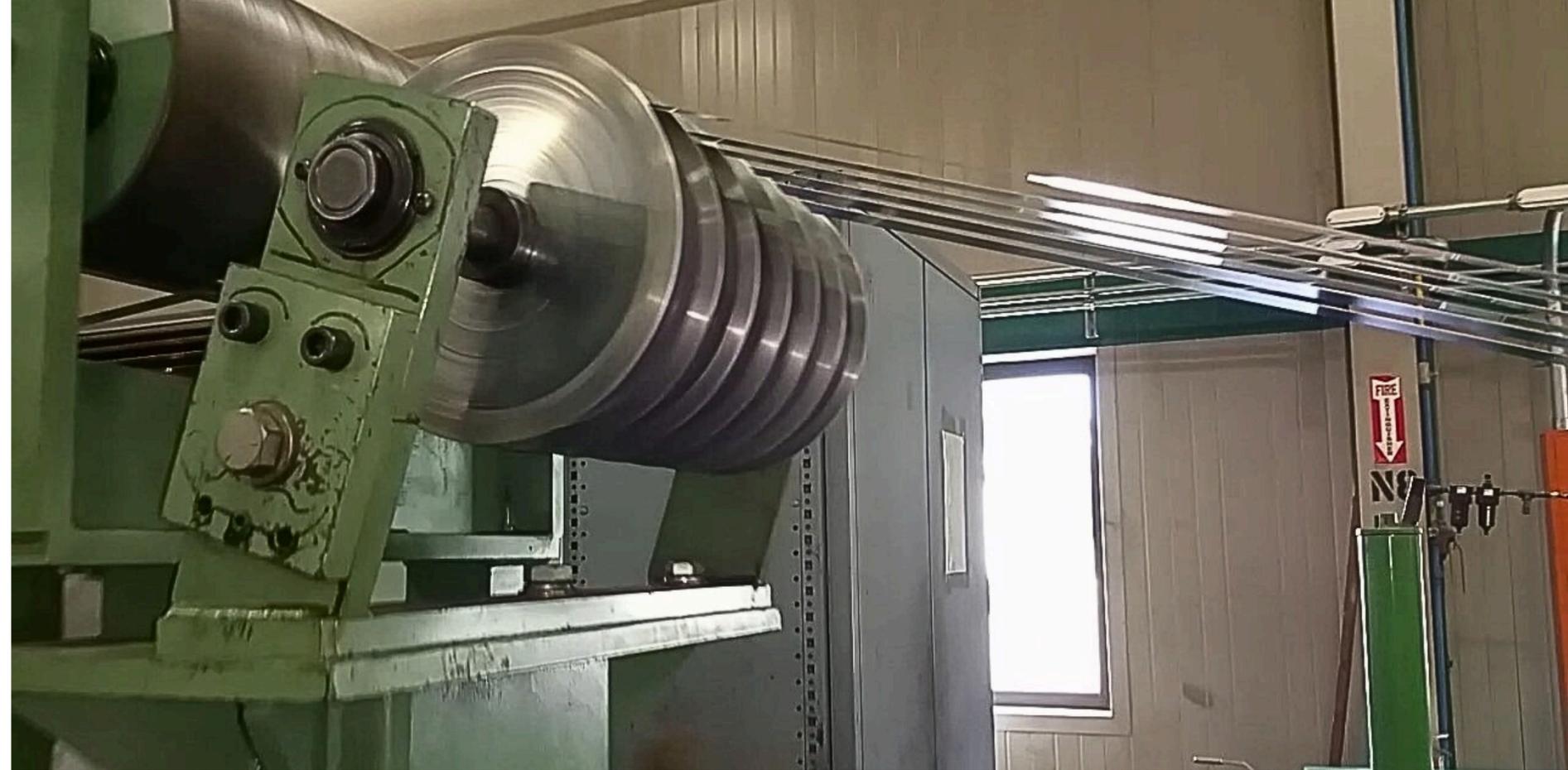


# SPECIALIZING IN SLITTER CONTROL RETROFITS



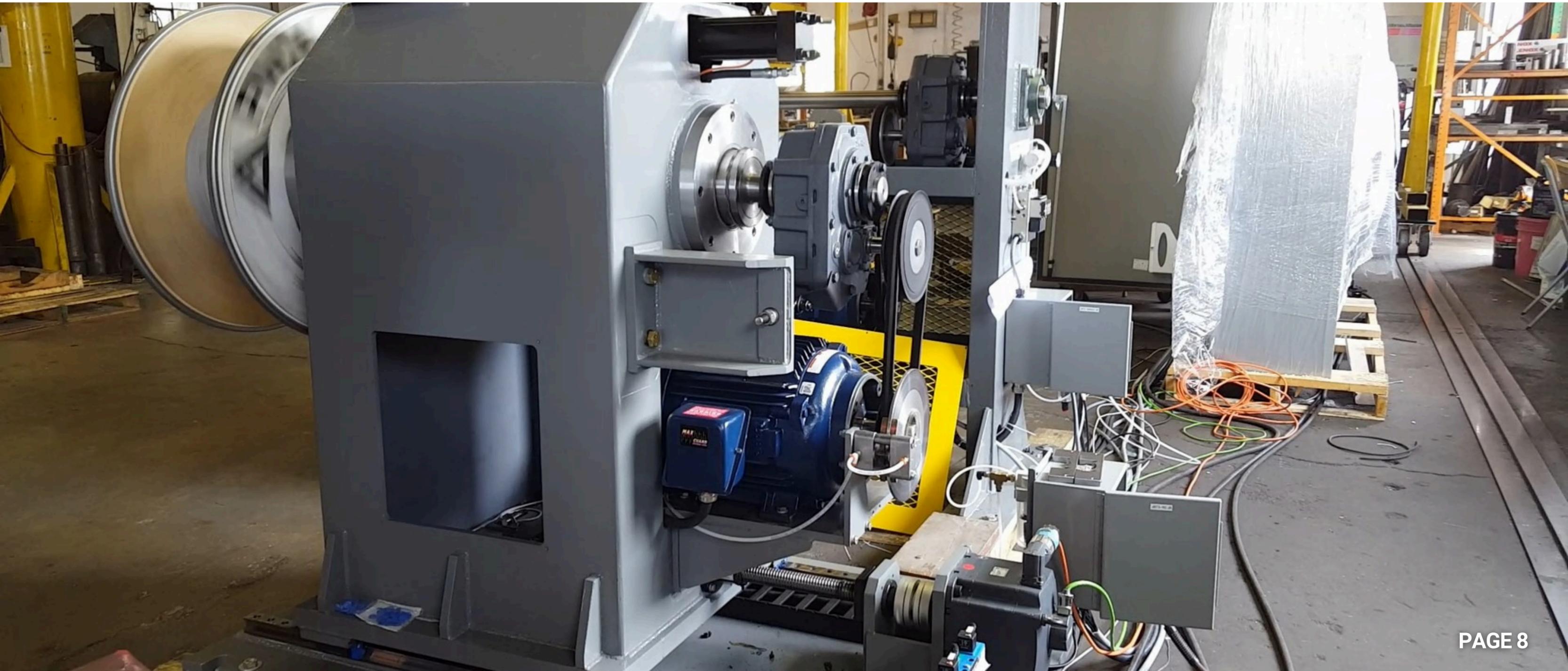


# SLITTER CONTROL RETROFITS



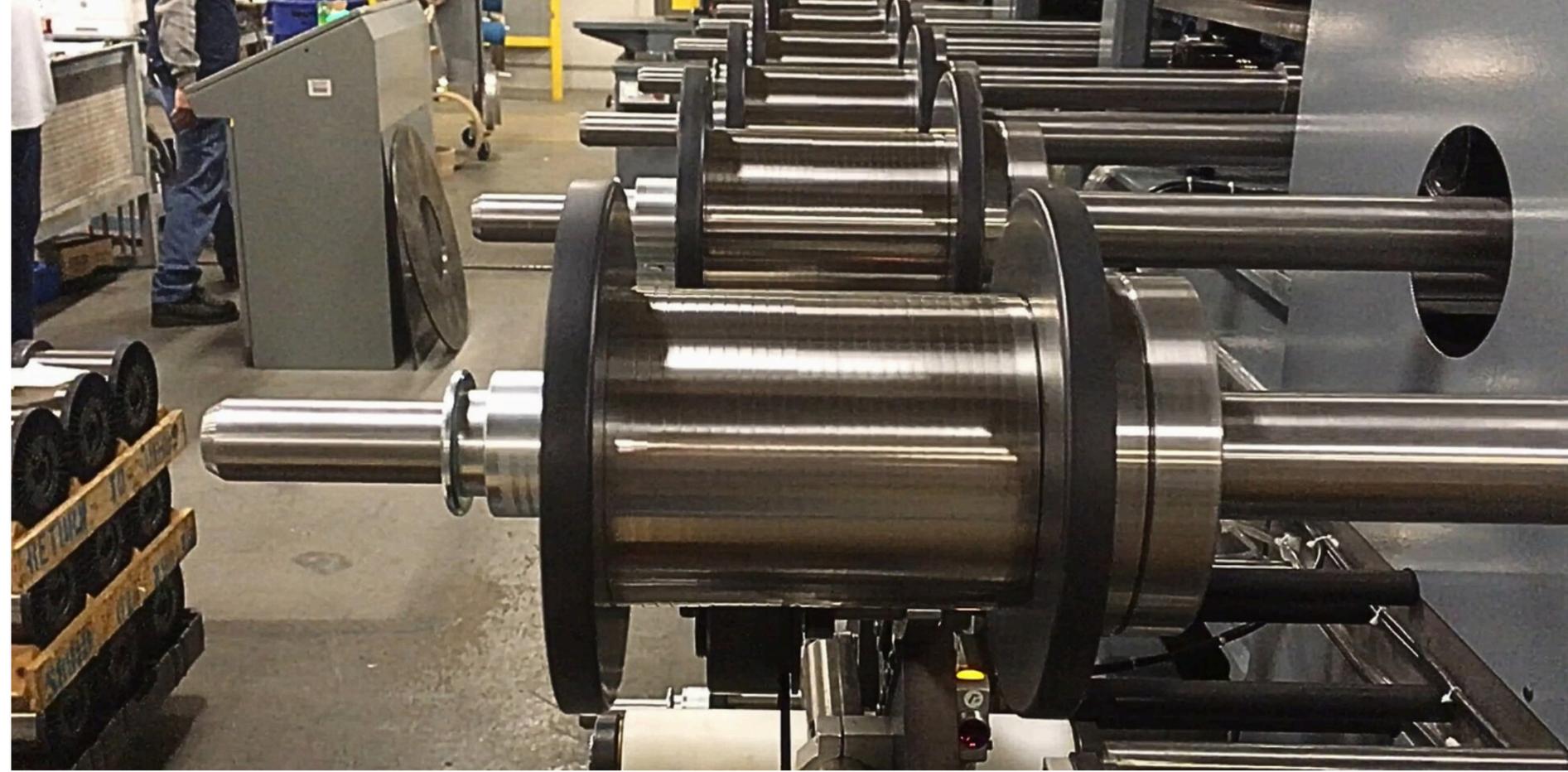


# SPECIALIZING IN TRAVERSE WINDING



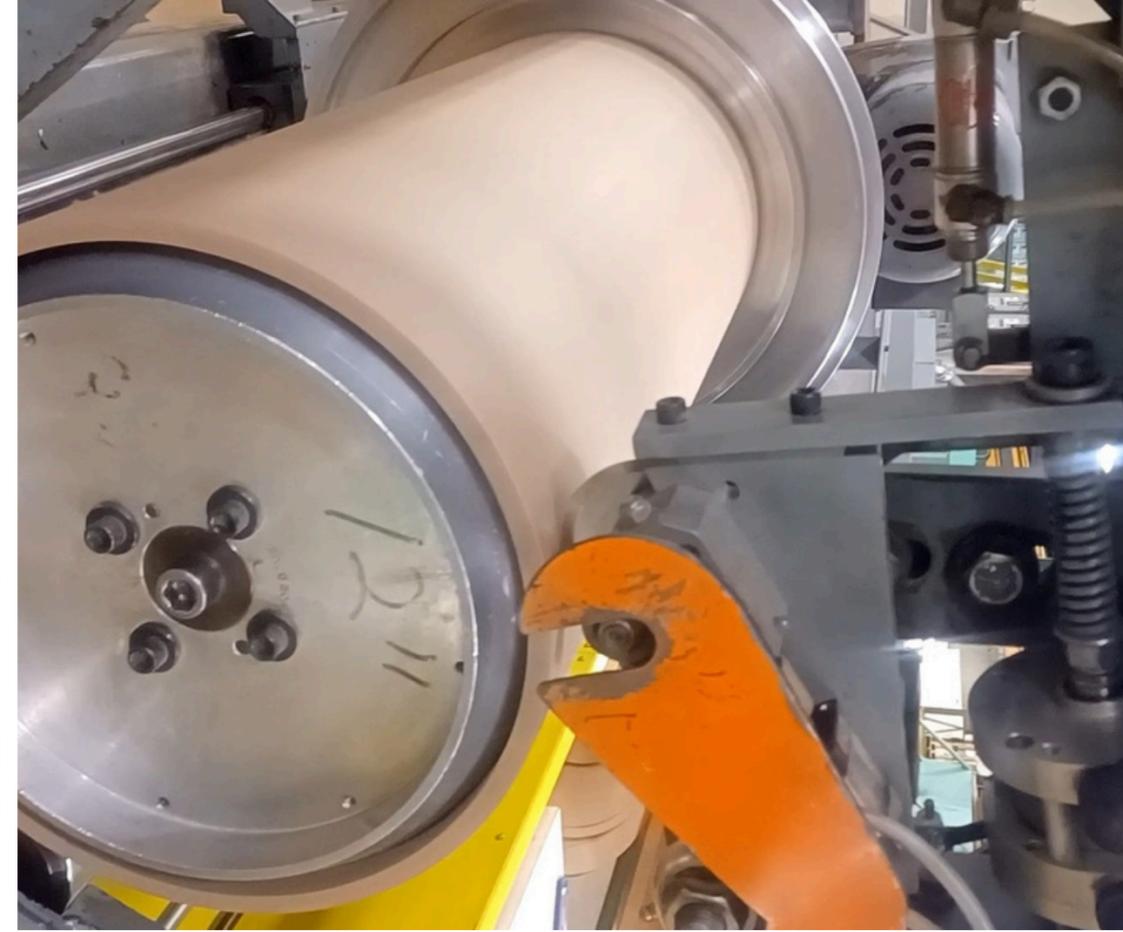
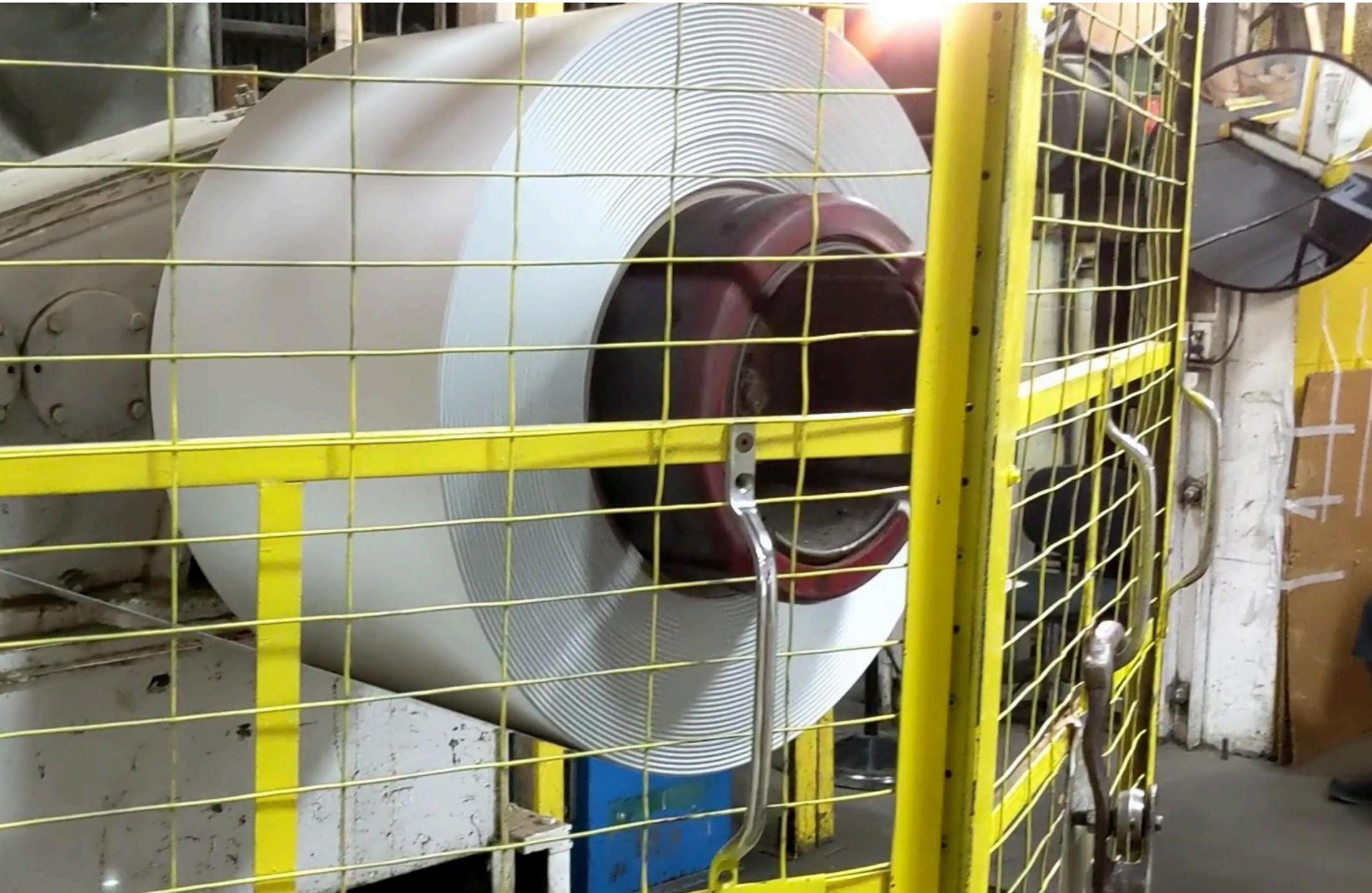


# TRAVERSE WINDING





# SPECIALIZING IN RECOILERS





# SPECIALIZING IN RECOILERS

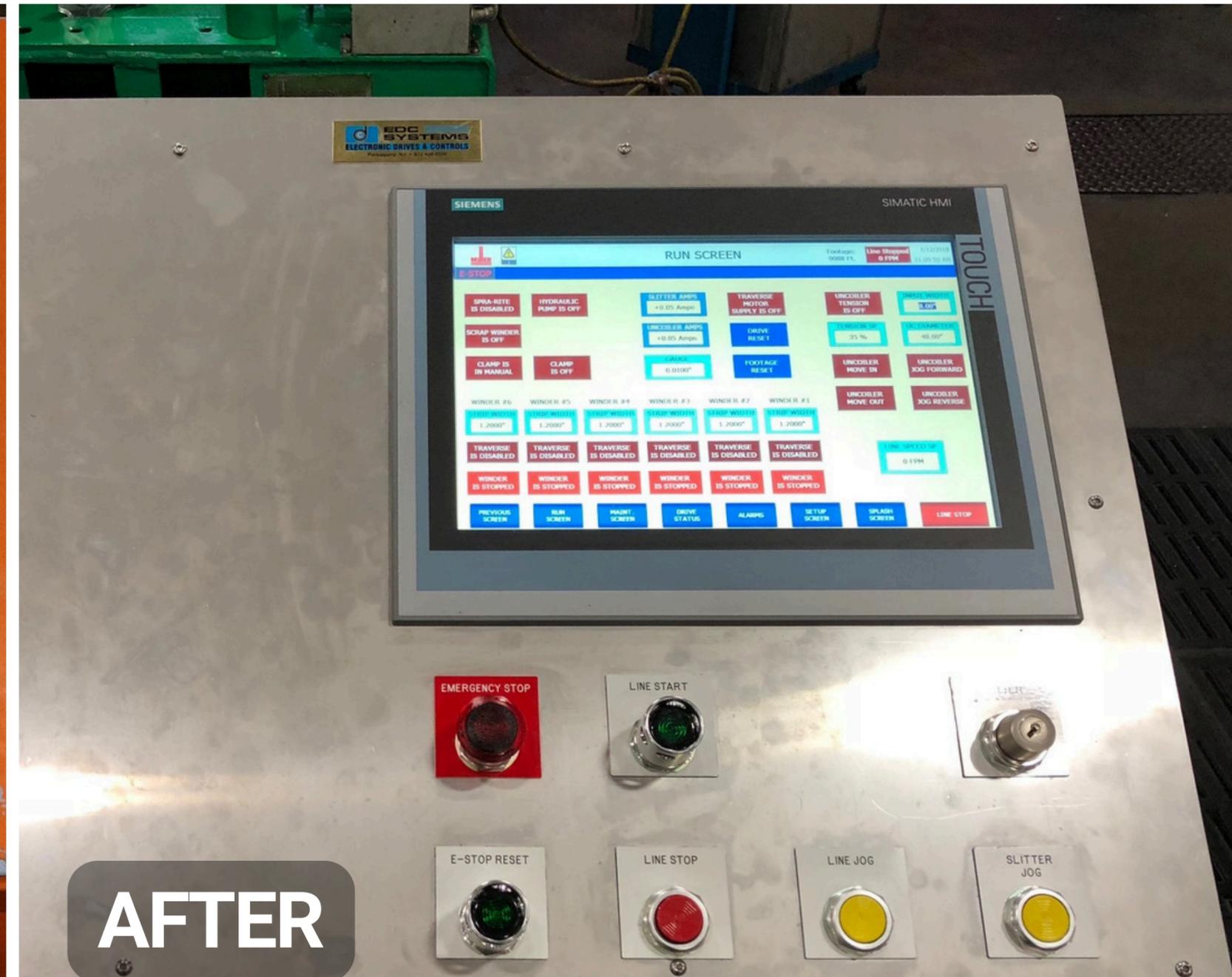




# SPECIALIZING IN OPERATOR STATION UPGRADES



**BEFORE**



**AFTER**



# SPECIALIZING IN USER-FRIENDLY HMI SCREENS

12/31/2000 10:59:39 AM    USER: 0000000000    **ELSNERS TREADYD**    TRAV POS: 0000000 IN    Line Stopped: 00000 FPM

### UNCOILER DIAMETER

STARTING DIAMETER	MAXIMUM DIAMETER	MINIMUM DIAMETER	ACTUAL DIAMETER
00.00 "	00.00 "	00.00 "	00.00 "

### RECOILER DIAMETER

STARTING DIAMETER	MAXIMUM DIAMETER	MINIMUM DIAMETER	ACTUAL DIAMETER
00.00 "	00.00 "	00.00 "	00.00 "

UNCOILER DIAMETER RESET      RECOILER DIAMETER RESET

RUN SCREEN    TRAVERSE WINDER    DIAMETER SCREEN    ALARM HISTORY    DRIVE STATUS    SPLASH SCREEN    MAINT.

11/20/2024 11:24:14 AM    **ELECTRONIC DRIVES and CONTROLS**    LINE OVERVIEW SCREEN    USER:    Entry: 0.00 FPM    Exit: 0.00 FPM

### 109 Anti-Tarnish Tank High Feedback Alarm

	1	2	3	4	5	6	7	8	9	10	11	12
SPEED	+0.00 FPM											
TRIM		+0.00 FPM				+0.40 FPM	+0.50 FPM	+0.40 FPM	+0.40 FPM	+0.50 FPM	+0.76 FPM	+0.40 FPM

	13	14	15	16	17	18	19	20	21	22
SPEED	+0.00 FPM									
TRIM	+0.00 FPM	+0.40 FPM	+0.50 FPM	+0.40 FPM	+0.80 FPM		+1.30 FPM	+0.00 FPM		

UNCOILER DIAMETER: 23.13 in.

ALKALI ELECTRO    ALKALI RINSE    COPPER PLATE #1    COPPER PLATE #2    COPPER PLATE RINSE    ANTI-TARNISH

UNCOILER TENSION: +8.36 lbs.    BRIDLE #1 TENSION: +850.31 lbs.    RECOILER FOOTAGE/METERS: 0.00 ft. / 0.00 m

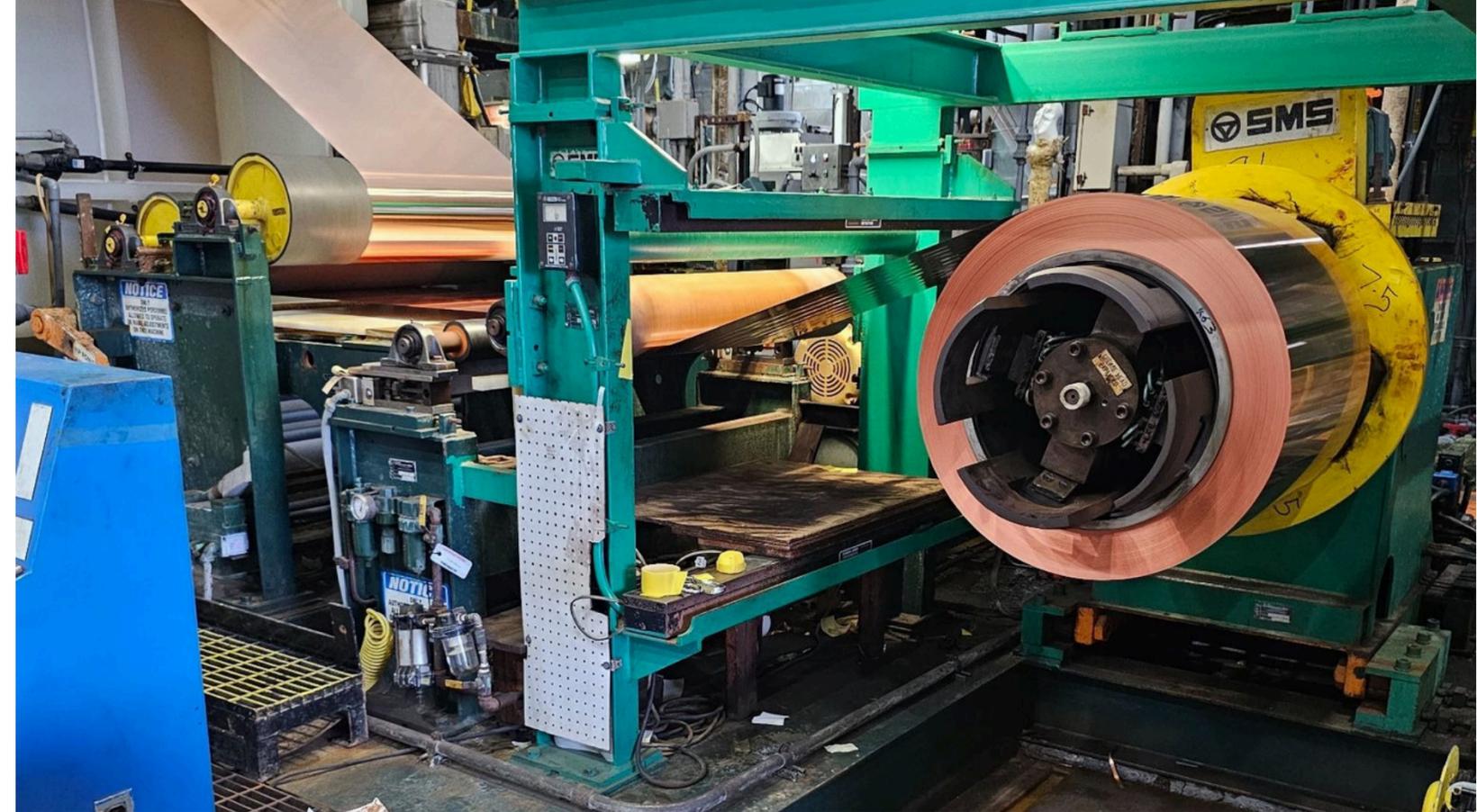
FINAL RINSE    ACCUMULATOR POSITION: 7.90 in.    RECOILER TENSION: +7.17 lbs.    RECOILER DIAMETER: 4.23 in.

SPLASH SCREEN    LINE OVERVIEW    SETUP    CONTROLS    OFFLINE TANKS    DRIVE STATUS    SECTION JOG    MAINT.    FAULT RESET    ALARM HISTORY



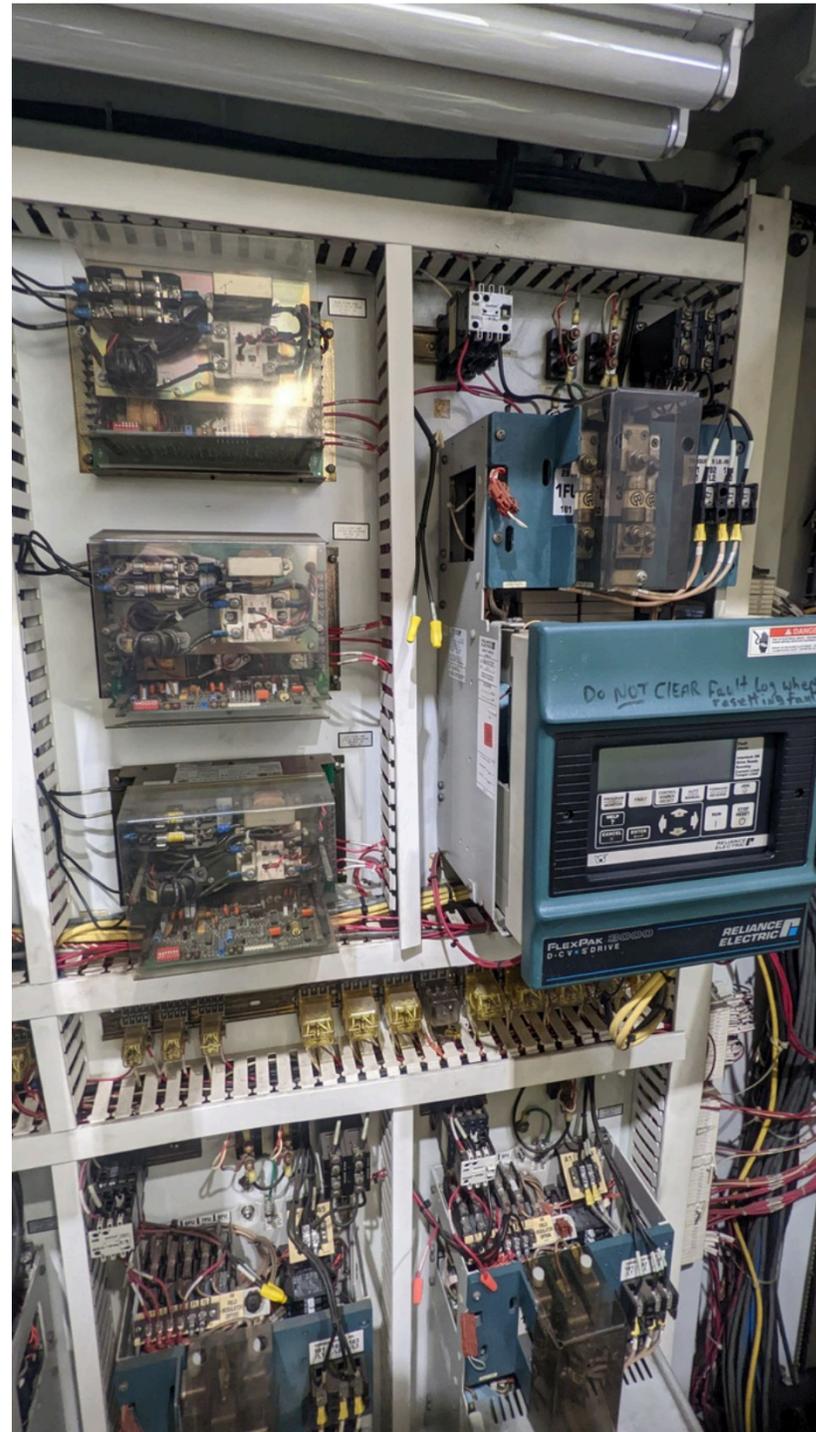
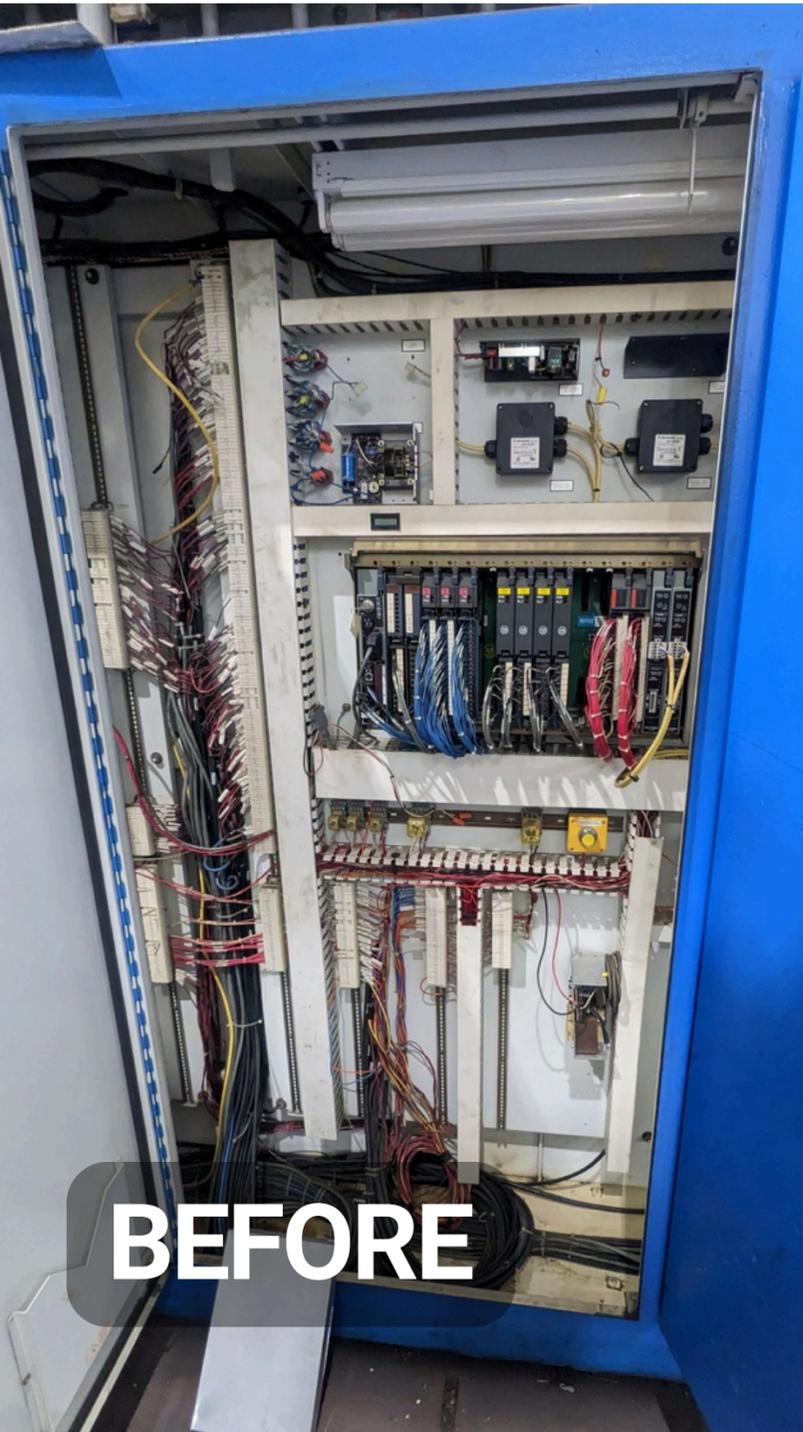
# PROJECT COPPER PLATING LINE UPGRADE

- 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**



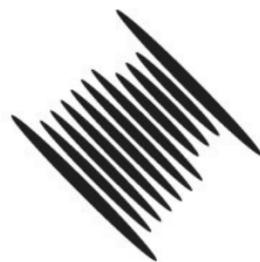
**AFTER**



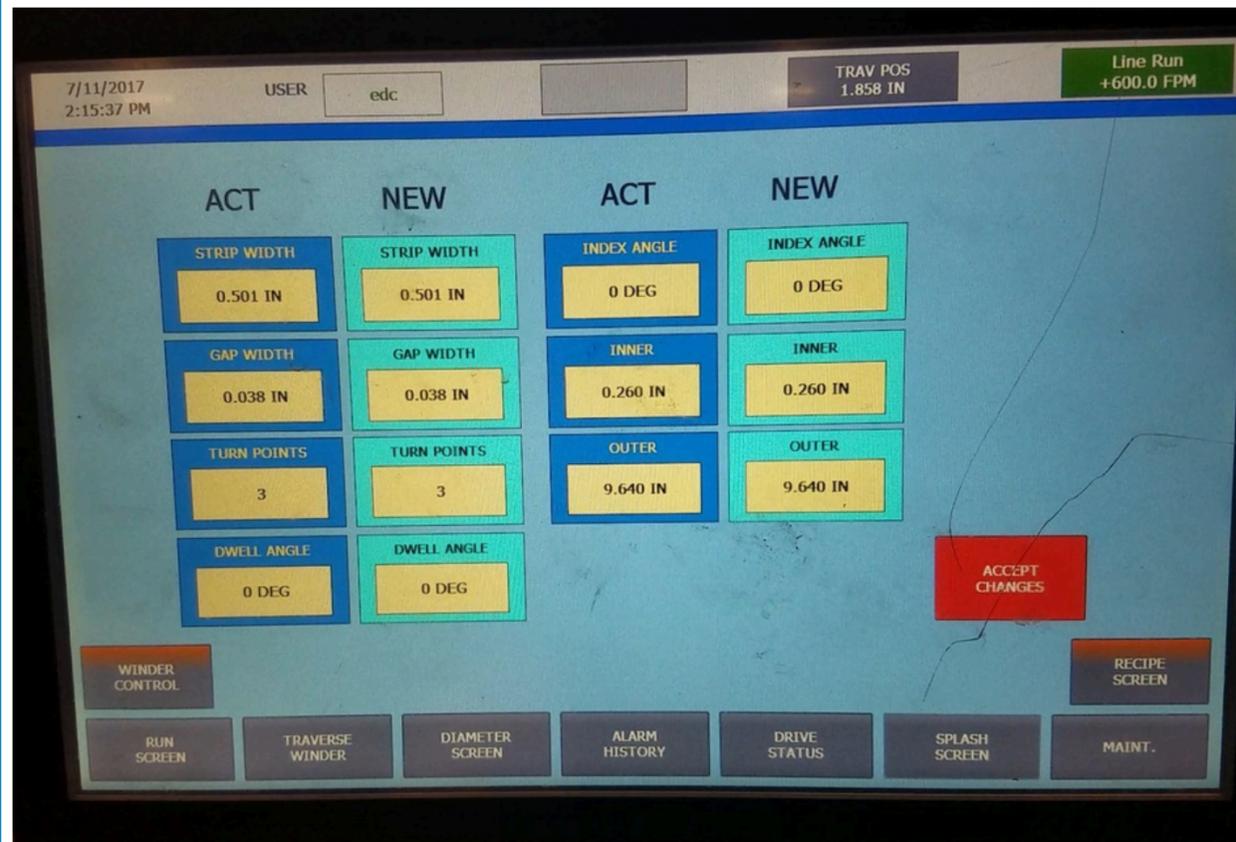
# TRAVERSE WINDER RETROFITS

## 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



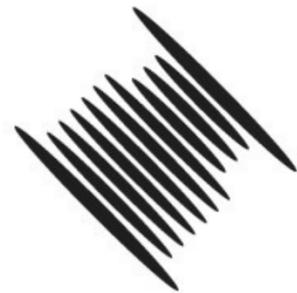
**OMEGA WIND**  
BY ELECTRONIC DRIVES AND CONTROLS, INC.





# 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



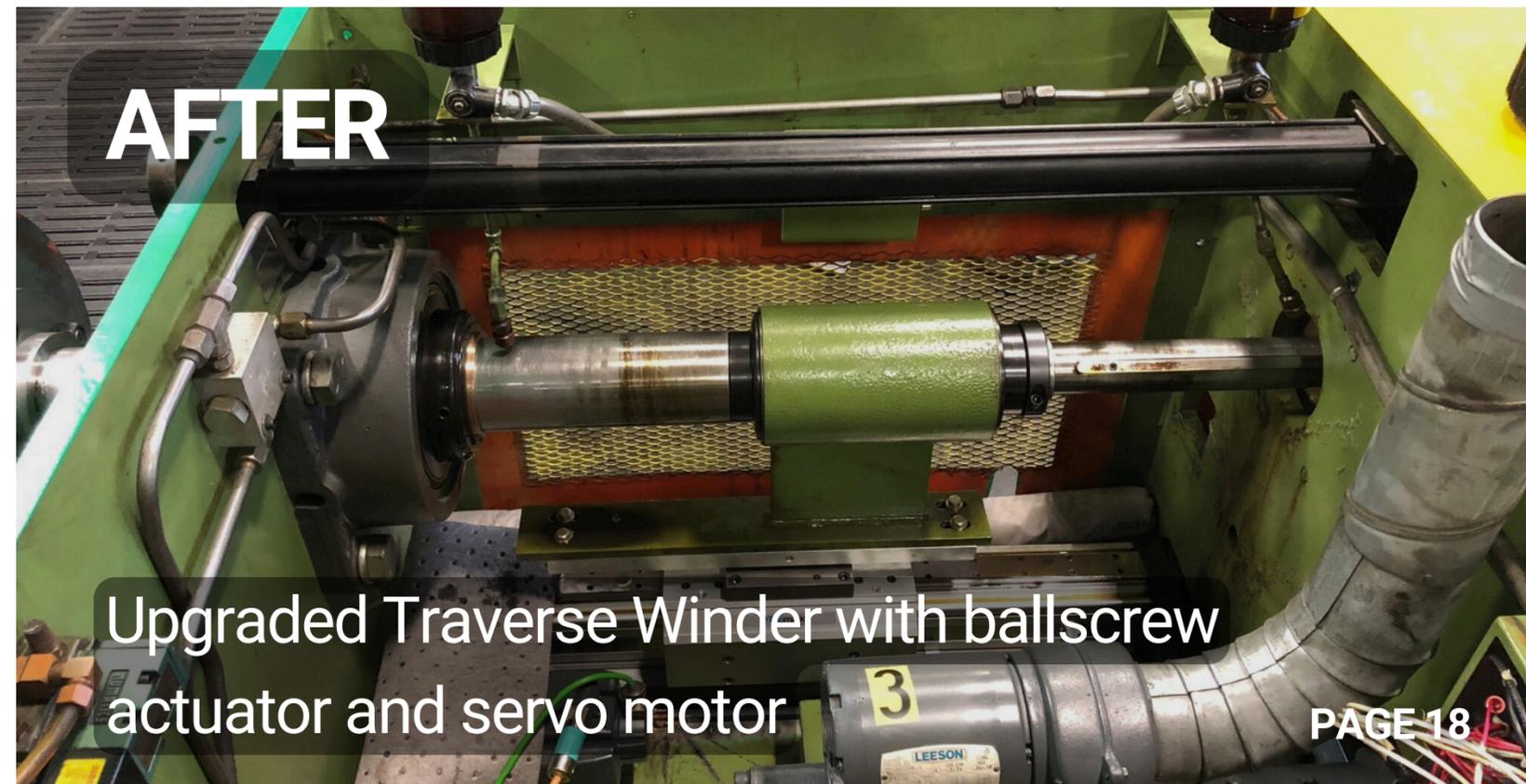
**OMEGA WIND**  
BY ELECTRONIC DRIVES AND CONTROLS, INC.

## BEFORE



Traverse Winder Stand with original hydraulic actuator and controls

## AFTER



Upgraded Traverse Winder with ballscrew actuator and servo motor

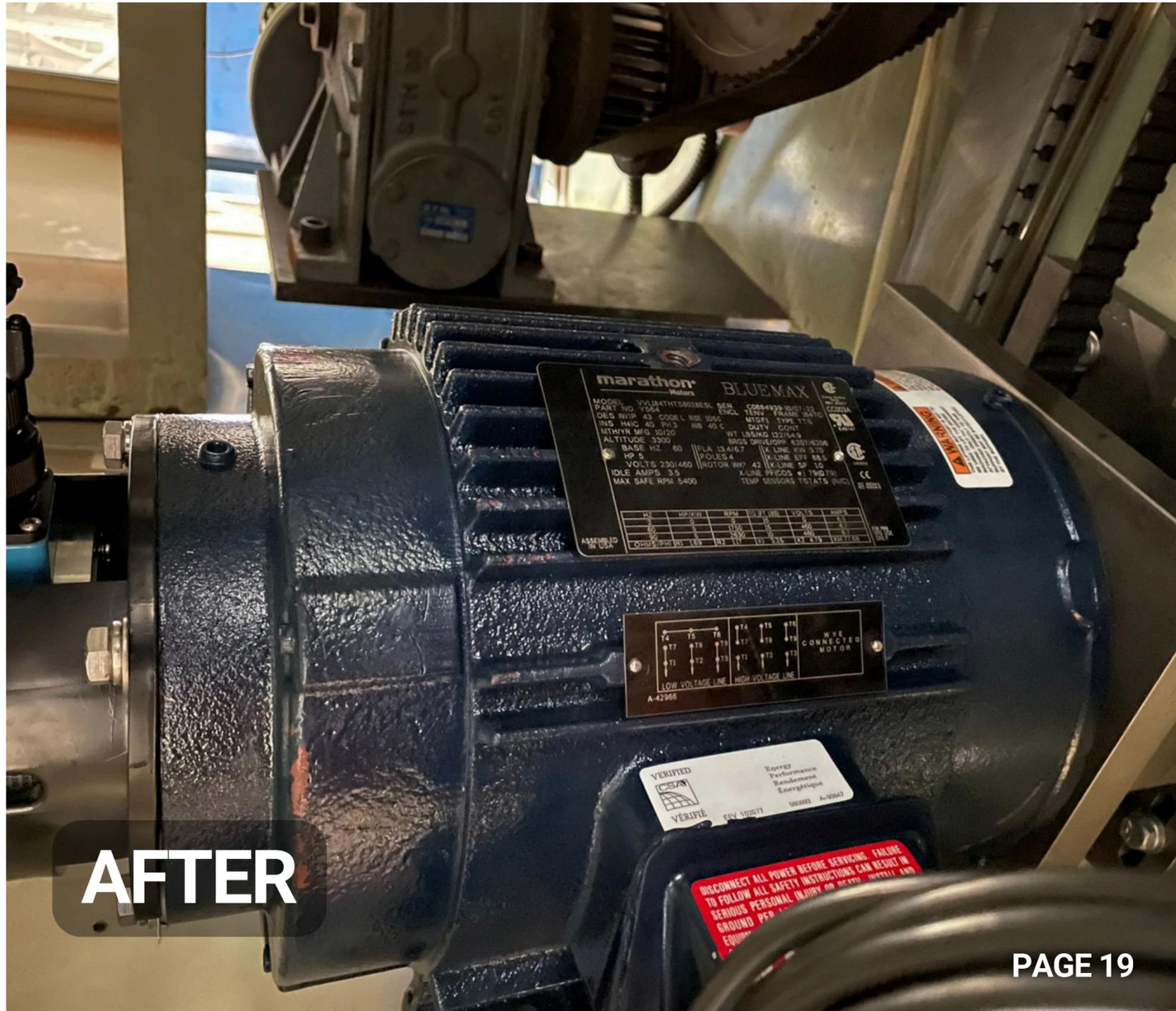


PROJECT:

# 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

**SIEMENS**

Automation  
Drives



**Rockwell  
Automation**

Recognized  
System  
Integrator

**SYSTEM  
INTEGRATOR  
GIANTS  
2026**



UL 508A INDUSTRIAL  
CONTROL PANEL  
FABRICATOR

