

FORMTEK

CUT-TO-LENGTH SYSTEMS

INCREASE PRODUCTIVITY
FROM PAYOFF TO BLANK.



 **ROWE** 
CoilMate®/Dickerman®

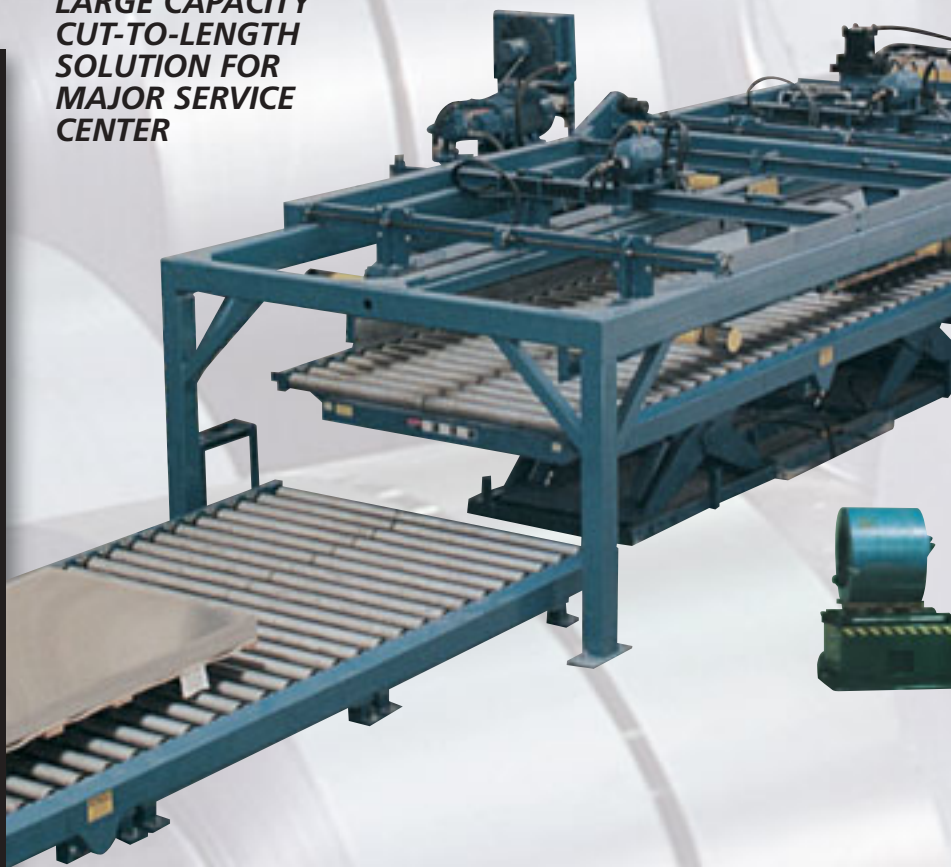
A MEMBER OF THE
FORMTEK
G R O U P

72"
wide
.250" x 30,000 lbs.

This cut-to-length system solution for a major service center is designed for high performance and accuracy. The line features a 20' stacker, pallet transfer system and four-roll feed allowing for +/- .002" accuracy. Equipped with heavy-duty debender, knurled thread-up rolls, chrome rolls, ultrasonic variable tension brake control. Exclusive "Auto-Ready" and diagnostic system allows hands-free thread-up and processing of 72" x .250" surface critical material by one operator.

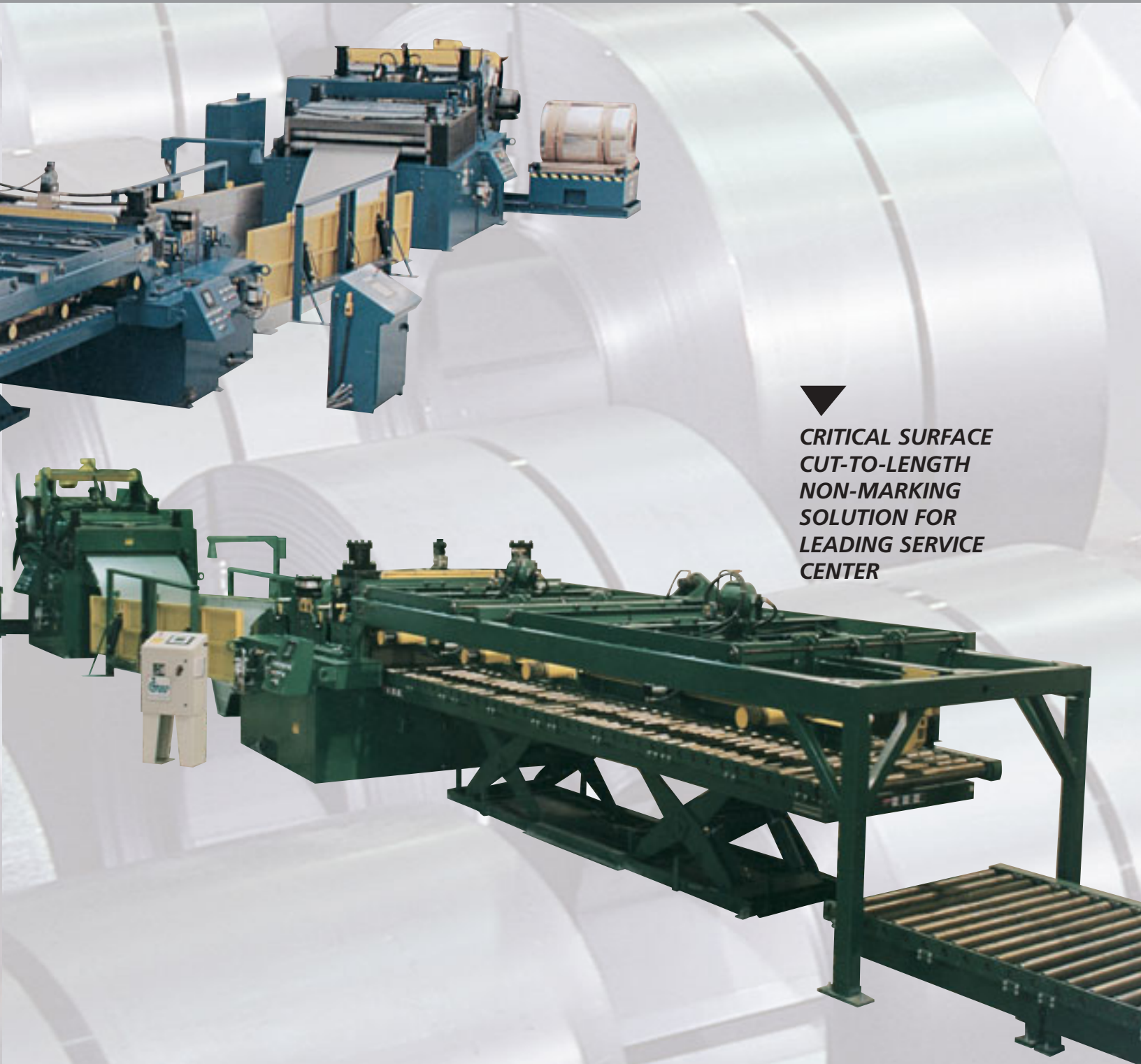
Cut-To-Length solutions manufactured by Formtek Maine Companies CWP and Rowe give manufacturers and job shops a productivity edge. Systems may incorporate a variety of coil loading options, advanced leveler technology, mechanical or hydraulic shears, pneumatic or servo drop stackers and operator-friendly touch screen controls. The system solutions shown in this brochure are representative of our capabilities to produce lines that provide greater productivity, easier set-up, automated stacking and material handling, faster changeovers and tight tolerances for better quality parts.

**LARGE CAPACITY
CUT-TO-LENGTH
SOLUTION FOR
MAJOR SERVICE
CENTER**



This line, developed for a major service center, features a 240" stacker and transfer system. Equipped with a 4-roll feed for accuracy of +/- 0.002" which allows the machine to decrease roll pressure by 50% while increasing the traction surface by 100%. The feed system leaves critical surfaces of stainless steel and aluminum unaltered. The line also includes a CWP-exclusive, auto-ready and diagnostic system allowing one person to operate and maintain the machine.

▼ (bottom)
60"
wide
.250" x 30,000 lbs.



▼
**CRITICAL SURFACE
CUT-TO-LENGTH
NON-MARKING
SOLUTION FOR
LEADING SERVICE
CENTER**

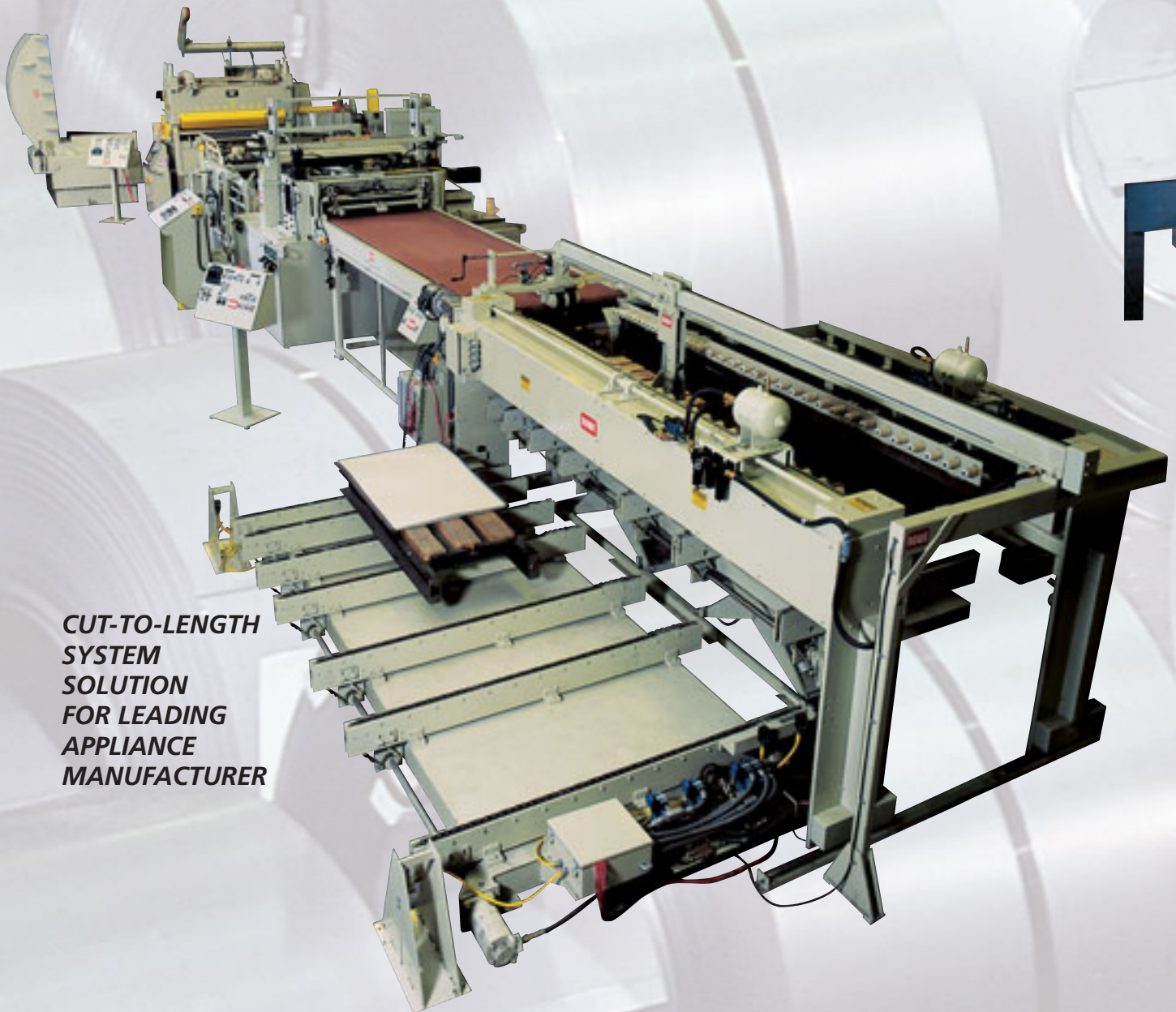
Call 800-247-COIL
For Cut-To-Length System Solutions.

50"

wide

.050" x 20,000 lbs.

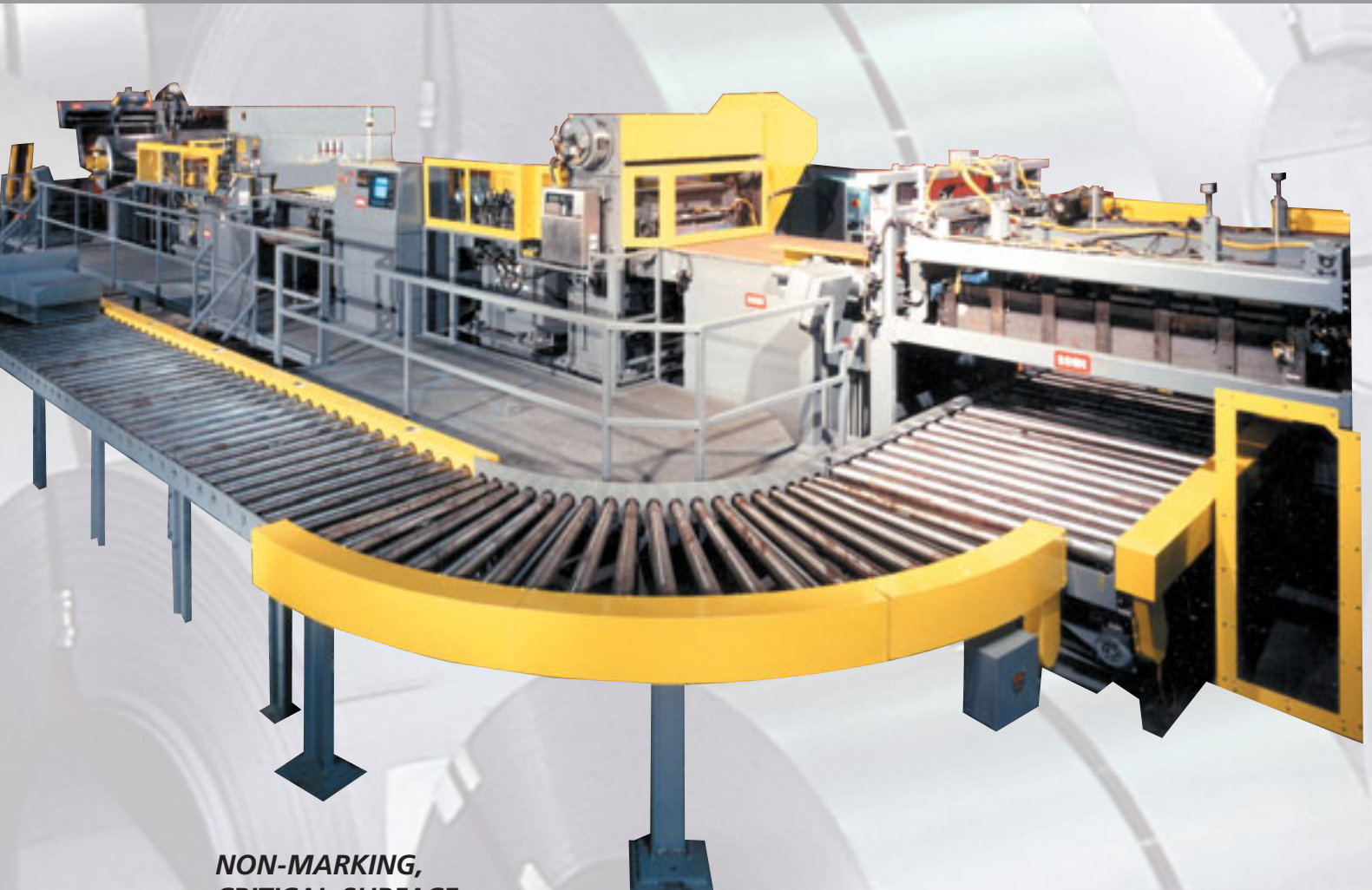
This system features a coil storage and loading car powered by a hydraulic cylinder and lift assembly; paper rewinder, precision leveler, servo feed and "C" series straightener with inclined head for pull-off operation from the reel and to minimize floor space requirements. The CTL system solution also features a hydraulic bow tie shear and stacker, complete with part reject station, conveyor and lift table to facilitate smooth material handling and maximize productivity.



**CUT-TO-LENGTH
SYSTEM
SOLUTION
FOR LEADING
APPLIANCE
MANUFACTURER**

This high-speed cut-to-length line, developed for a major appliance manufacturer, features both a powered straightener and a precision leveler. A stacker with lift table, automatic pallet inserter and roller conveyor system. The line is equipped with a full complement of features to process surface-critical and pre-painted material with chrome surfaces on all straightener and leveler rolls, satin chrome finish on the feed rolls, and micarta facing on all contact surfaces.

50"
wide
.078" x 20,000 lbs.



**NON-MARKING,
CRITICAL-SURFACE
CTL SOLUTION FOR
LEADING APPLIANCE
MANUFACTURER**


Call 800-247-COIL
For Cut-To-Length System Solutions. **5**

48"

wide

.078" x 30,000 lbs.

This system solution was provided for a major appliance manufacturer to solve the issue of supplying formed door blanks for down-line supply. Equipped with a four-post 120-ton hydraulic press, the fully integrated system control platform makes easy work of providing the required formed blanks. The finished parts are conveyed through the inspection area from the exit of the press and into the 120" direct drop stacker. An air blower within the stacker ensures that the sheets float into position and prevents any chance of marking the critical surface material.

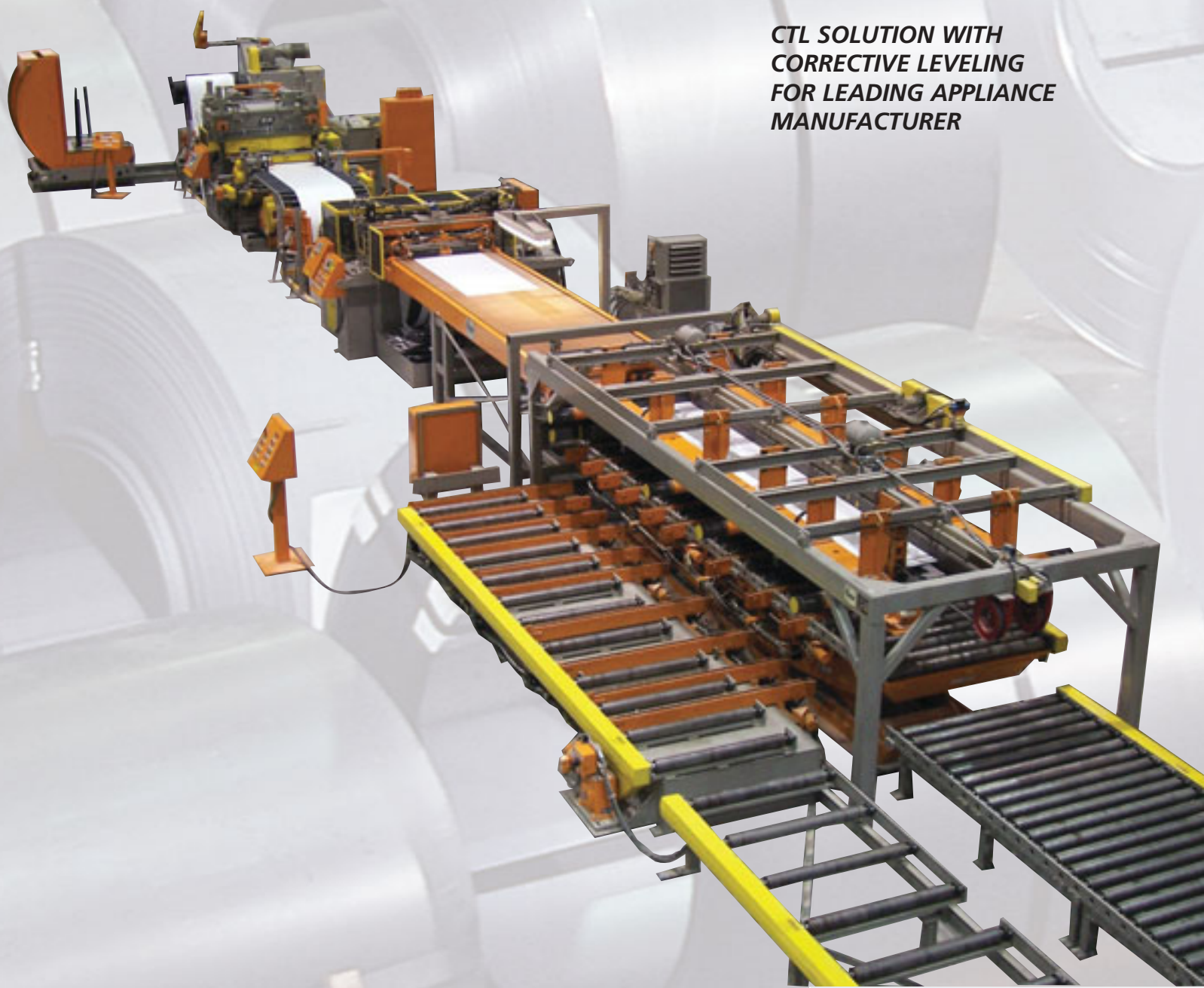


**NON-MARKING,
CRITICAL
SURFACE CTL
SOLUTION
FOR LEADING
APPLIANCE
MANUFACTURER**

This system solution was provided for a major appliance manufacturer to supply the large sheets the outside skin of refrigerators. A B&K corrective leveler was incorporated to remove all internal stresses and ensure the supply of 'panel-flat' parts critical for this application. A combination coil car/upender unit accommodates coils loaded "eye to the sky", flipped 90° and directly loaded onto the uncoiler. A 240" inspection conveyor with power lift allows damaged lead and trailing ends to be cropped and dumped into a supplied scrap bin. Quality parts are directly conveyed into the 240" direct drop stacker. An empty pallet inserter loads the customer-supplied material skids. A powered mule was also provided to remove full skids from the discharge station and store them for downstream operations.

48"
wide
.078" x 30,000 lbs.

**CTL SOLUTION WITH
CORRECTIVE LEVELING
FOR LEADING APPLIANCE
MANUFACTURER**



Call 800-247-COIL
For Cut-To-Length System Solutions.

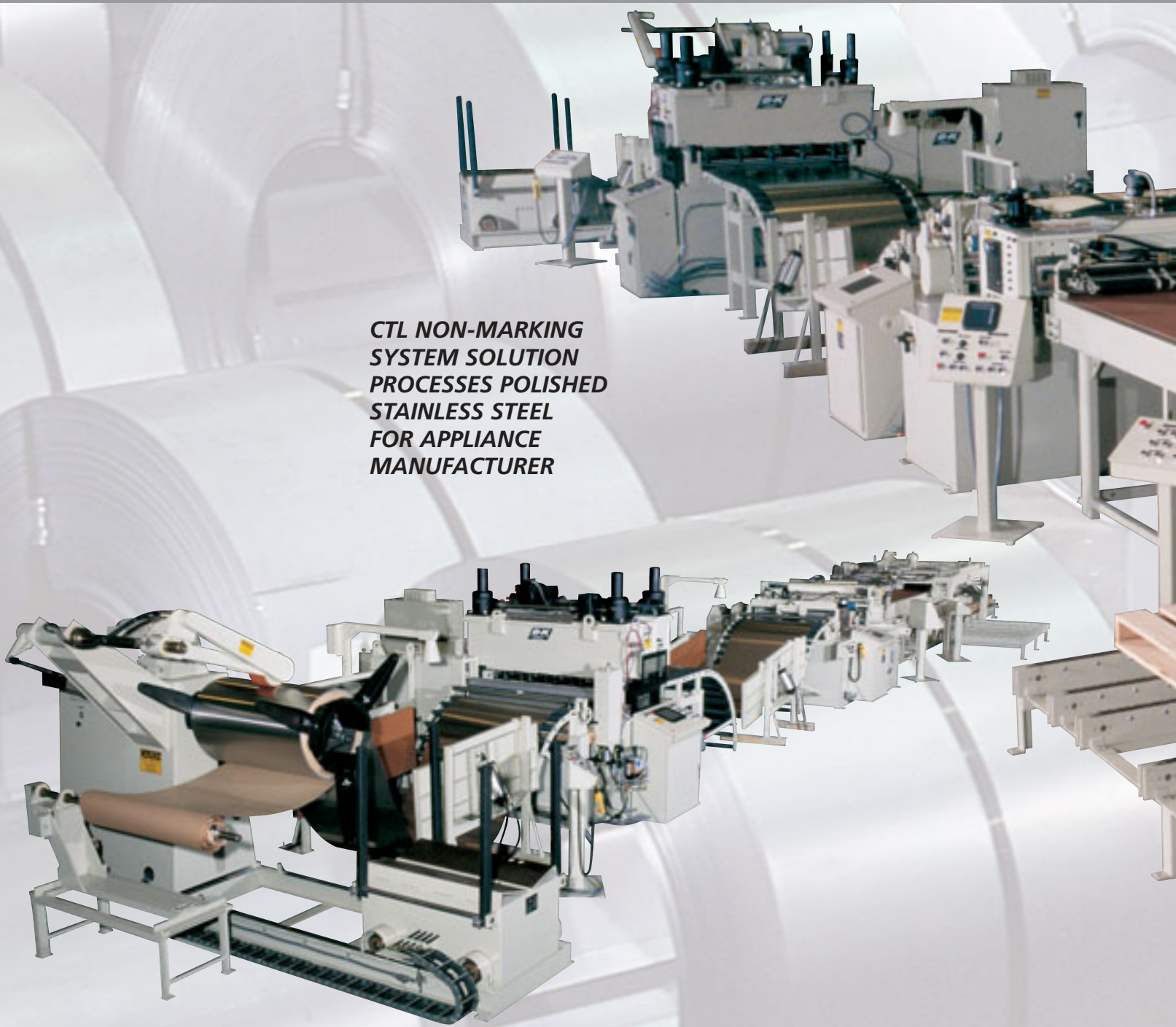
48"

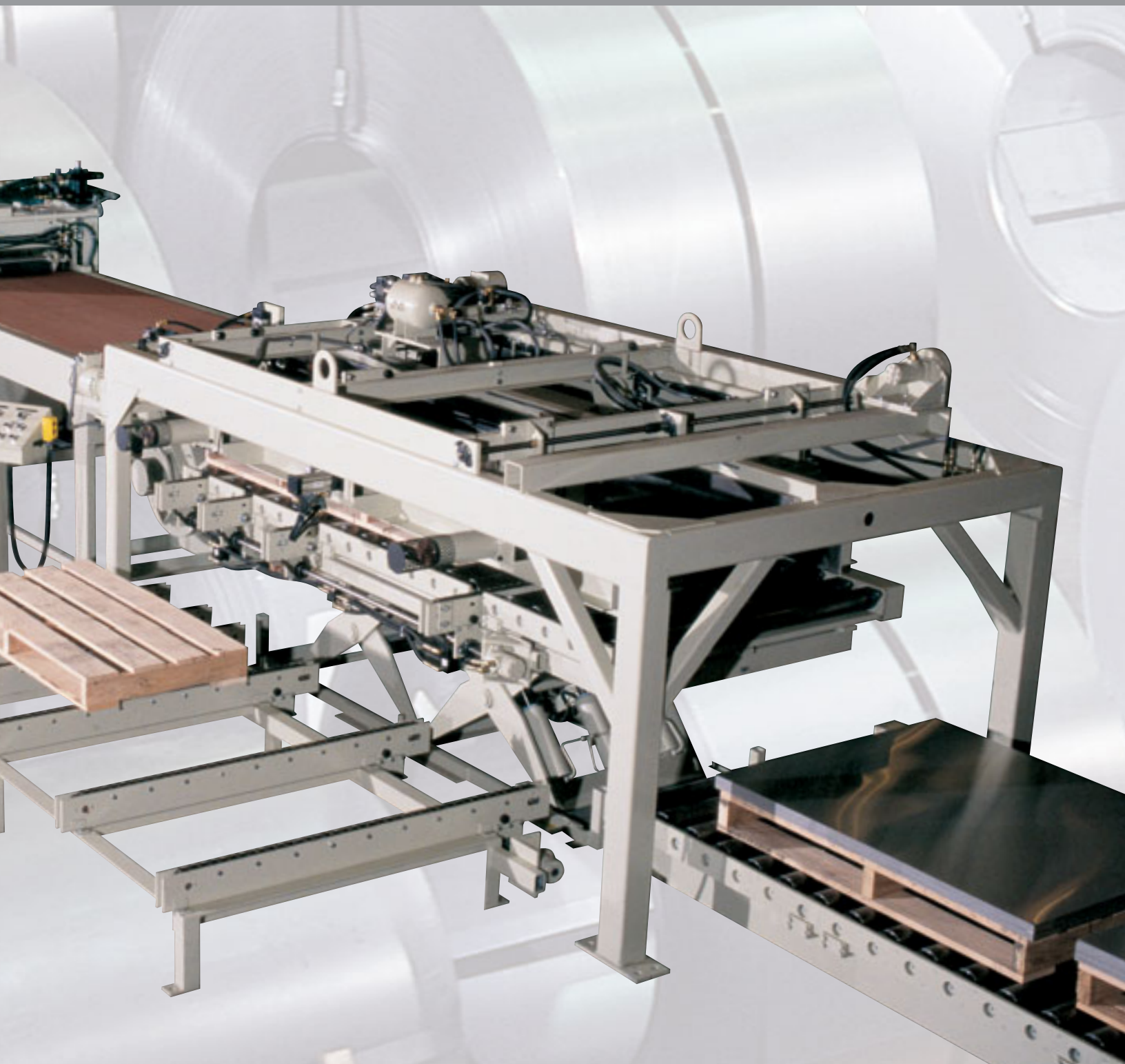
wide

.078" x 15,000 lbs.

This non-marking, critical-finish system processes highly polished stainless steel product. As the paper rewinder removes the paper interleaf from the coil, a motorized uncoiler ensures no stretch is applied between the uncoiler and the leveler. A B&K leveler is used to remove internal stresses and ensure panel-flat material. The hydraulic shear with bow tie blade and pivot base provides squareness compensation. An inspection conveyor allows viewing of the sheets prior to entering the stacker. Utilizing a direct drop stacker with air blower assist, the material is dropped straight down into the stacker without any sliding of 'sheet-on-sheet' to protect the material surface against abrasion and marking. A state-of-the-art control platform allows the customer to monitor and control all system features for problem-free processing of surface-critical material.

**CTL NON-MARKING
SYSTEM SOLUTION
PROCESSES POLISHED
STAINLESS STEEL
FOR APPLIANCE
MANUFACTURER**

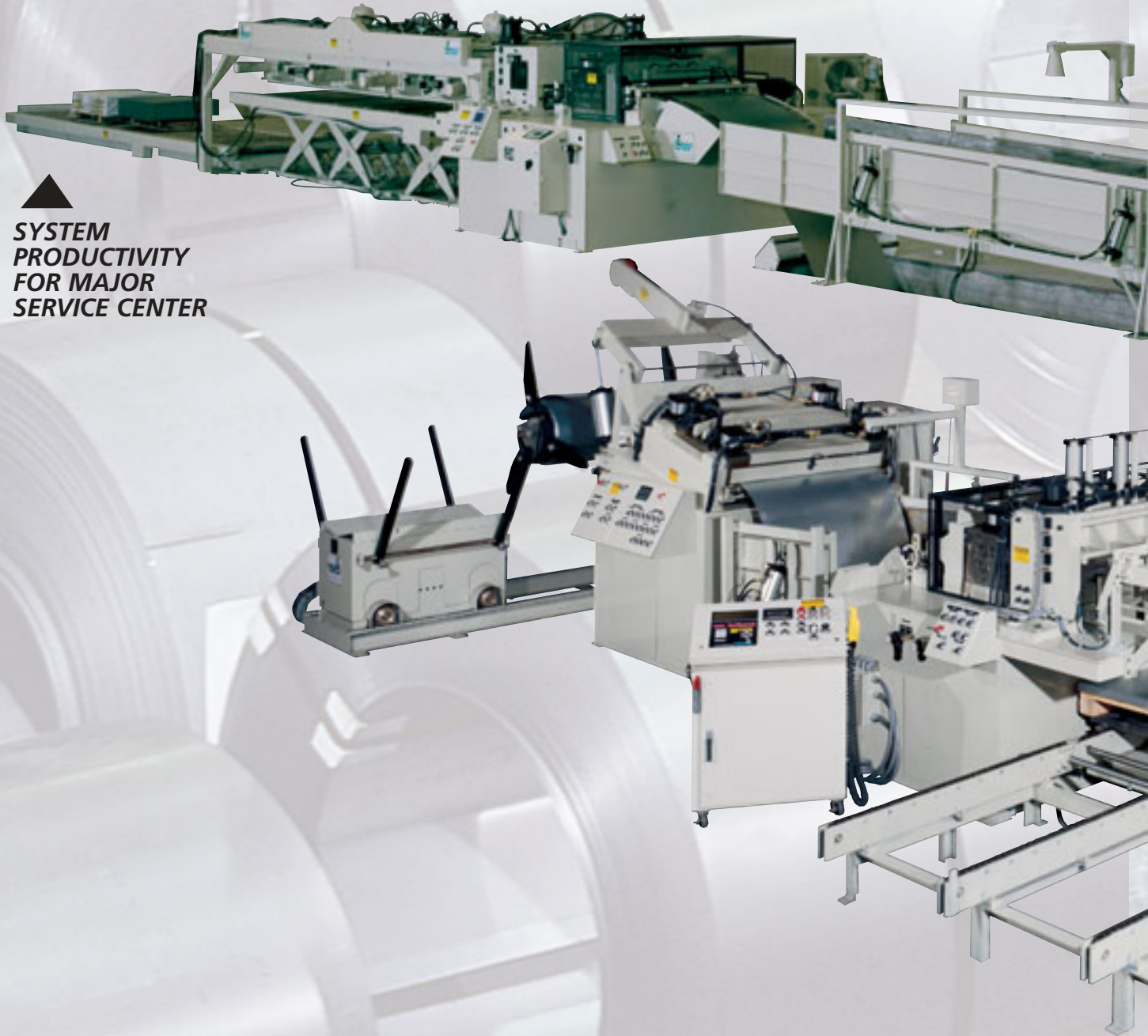




▲ (top)
48"
wide
.200" x 30,000 lbs.

This high capacity cut-to-length line was designed and manufactured to handle the diverse production needs of a major service center. The line features a hydraulic bow tie shear and direct drop parts stacker with end discharge station. The system provides production capacity up to 200 FPM and is ideal for just-in-time production needs of the service center industry.

▲
**SYSTEM
PRODUCTIVITY
FOR MAJOR
SERVICE CENTER**



This CTL coil handling line provides high productivity and repeatable accuracy for a major electronics manufacturer. The system features a pneumatic part stacker and side load and discharge pallet transfer system to expedite material flow. This high-productivity line also features a hydraulic bow tie shear, 4-roll servo feed with automated control, pneumatic threading table, power driven stock straightener with powered head adjustment via job number, hold-down peeler system, 6.5R stock reel and coil loading car.

(bottom)
48"
wide
.093" x 20,000 lbs.



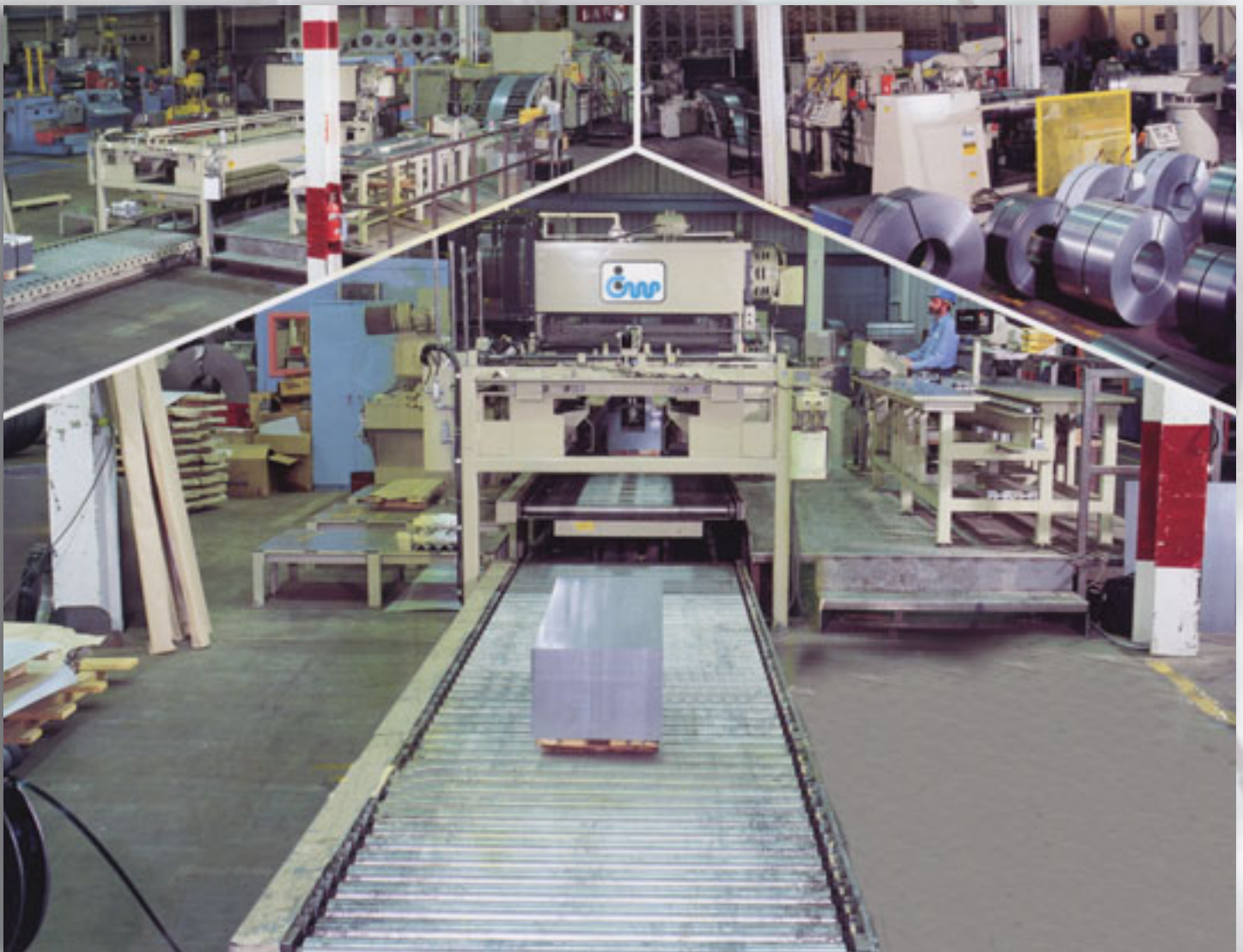
**CUT-TO-LENGTH
SOLUTION FOR
LEADING ELECTRONICS
MANUFACTURER**

Call 800-247-COIL
For Cut-To-Length System Solutions.

48"
wide
.140" x 30,000 lbs.

This high-performance CTL line developed for a leading service center features a servo-driven drop stacker and apillet transfer system that allows for a production output of up to 300 FPM. The line also features a mechanical bow tie shear, 4-roll heavy-duty servo feed, pneumatic threading cascades, precision leveler, hold-down peeler system, 7R stock reel, coil loading car and powered turnstile for efficient coil staging and loading.

**HIGH PERFORMANCE
SYSTEM SOLUTION FOR
MAJOR SERVICE CENTER**



(bottom)

40"

wide

.437" x 30,000 lbs.
60,000 PSI Yield.

Automated system allows for thick, high yield material to be processed in "Auto Run Mode" without operator assistance.

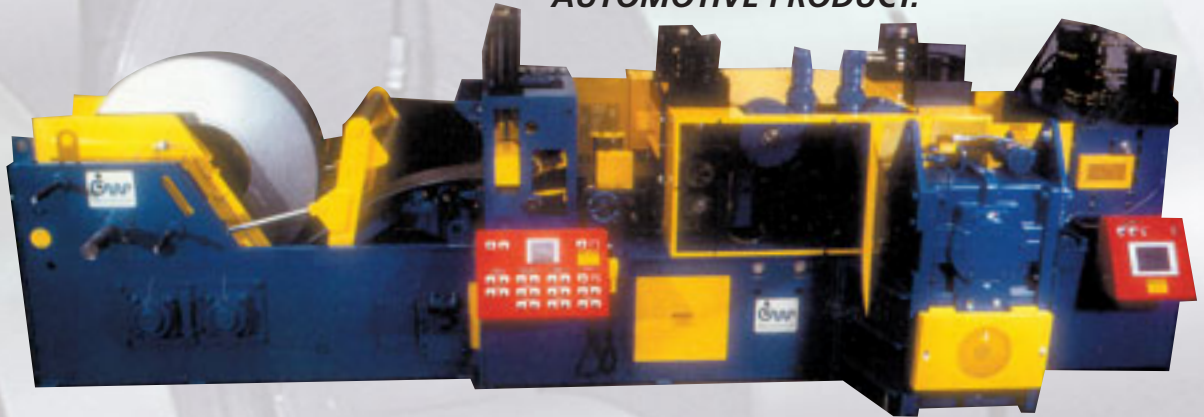
Combination cradle straightener/feeder CTL system processes blanks on demand to supply material to lasers. Control platform receives information via feed length download. The line then feeds the appropriate lengths and cuts material. Pinch rolls close on staging conveyor and cut material is staged on conveyor until traveling car (not shown) picks up blanks.

This space-saving combination cradle straightener/feeder cut-to-length system allows for accurate parts to +/- .015" while processing .500" thick, 90,000 psi yield material. Equipped with a heavy-duty debender, knurled thread-up rolls, pivot peel system, hydraulic powered side plates, bow tie shear and exclusive "Auto-Ready" and diagnostic system. Allows hands-free thread-up and processing of .500" thick material by one operator.

24"

wide

**SPACE-SAVING CUT-TO-LENGTH SOLUTION
FOR CONTRACT STAMPER SPECIALIZING IN
AUTOMOTIVE PRODUCT.**



**COMBO CRADLE STRAIGHTENER/FEDER
CUT-TO-LENGTH SYSTEM FOR
LEADING LAWN & GARDEN PRODUCTS
MANUFACTURER**



Call 800-247-COIL
For Cut-To-Length System Solutions.

Levelers

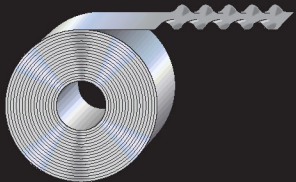
B&K backed-up roller levelers are designed for precision coil strip flatness and shape correction. Ideal for sheet leveling, parts leveling, cut-to-length lines and other applications. B&K levelers are the perfect solution to problems posed by coil set, cross bow, wavy edge and center buckled material. Models range from 18" to 96" width and .010" to .312" thickness capacities.



**PRECISION LEVELING
TECHNOLOGY**

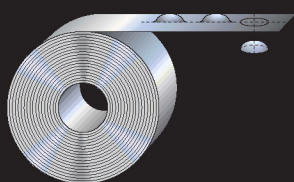


INCOMPARABLE COIL STRIP CORRECTION



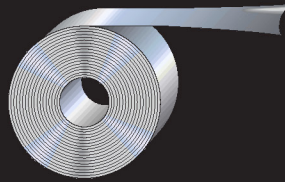
EDGE WAVE

Can be either eliminated or induced through back-up roll adjustment.



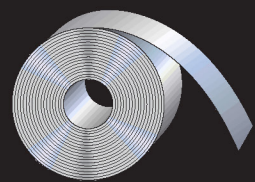
CENTER BUCKLES

Stubborn center buckles can be removed through back-up roll adjustment.



CROSS BOW

Any inherent widthwise coil curvature can be removed with simple bank adjustment of leveler head.



COIL SET

Any inherent lengthwise coil curvature can be removed with simple bank adjustment of leveler head.

Features:

- Stress relieved, steel fabricated upper and lower roll housings
- Work rolls manufactured from Peterson 52100 material, cryogenically treated and heat treated to 62-64 Rockwell C scale
- Wedge-type adjustable back-ups
- Motorized lower back-up adjustment
- Manually adjustable upper back-ups
- Crowned back-up rolls
- Floating full-width back-ups on 5- and 6-high models
- Motorized upper bank adjustments
- Anti-backlash jacks for full tilt
- Heavy-duty powered pinch rolls
- Gearbox with "Herringbone" gears and self-contained, gear-driven lubrication system
- Automatic lubrication system
- A/C closed loop Vector drive
- High lift head
- User-friendly, touch screen control
- Exit mounted inspection station
- Material widths from 18" to 96"
- Two-Year Warranty

A variety of optional equipment is available to enhance the performance and productivity of Formtek Maine cut-to-length systems. Our design and engineering staff will specify the right equipment options based on specific application requirements.

Options

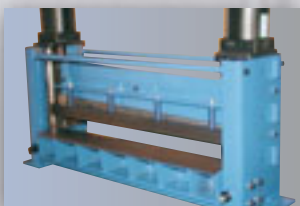
Trapezoidal Shear

Provides flexibility to cut rectangular and trapezoidal blanks. Blank angle set into job memory for ease of operation.



Hydraulic Cropping Shears

Trim off damaged leading and trailing ends of coils with push of a button. Reduce set-up time associated with rewinding of partial coils.



Mechanical Shears

Electromechanical shears allow for increased stroke rates and higher production levels.



Hydraulic Shears

Economical shears ideal for use in lines that run in a stop-start mode.



Turnstiles

Heavy-duty construction features 360° rotation. Provides staging of coils and automated coil loading and unloading.



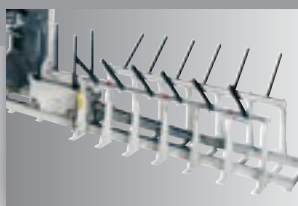
4-Roll Feed

Permits unparalleled traction by providing twice the surface area in contact with the material. Ideal for critical finish products.



Flexible Cascades

Used to span looping area for material thread-up. Can be raised during tail out of coil to support and prevent material from hitting floor or falling into pit.



Coil Storage Racks

Provide a timesaving, efficient solution for staging and loading of coils in production.



Coil Cars, Upenders

Provide convenience and efficiency for coil handling and loading.



Coil Debenders

Reduces set-up time by aiding operator in threading lead edge of thick and high yield materials.



Stackers

A variety of stacking systems are available including pneumatic direct drop, servo direct drop, C-drop and sheet-over-sheet.



Paper Rewind

Provides efficient payoff of critical finish coils with problem-free, paper interleaf rewind.



Edge Trimmer

Used in applications where edge finish and material width dimensions are critical. Features powered width adjustment and four rotary slitting knives.



Paper Applicator

Used to apply a protective coating on high polished or prepainted critical surface material applications.

FORMTEK

More Productive Metalforming Solutions

FORMTEK is a wholly-owned subsidiary of Mestek, Inc. and is comprised of some of the strongest companies in coil processing and metalforming/fabricating machinery. Working together, these companies produce complete, integrated manufacturing systems that can provide your business with a sustainable, competitive advantage.

FORMTEK MAINE

Clinton, ME is home to FORMTEK companies Cooper-Weymouth, Peterson, ROWE, B&K and Coilmate/Dickerman. These companies offer well over a century of combined experience



in the design and manufacture of coil processing equipment and integrated system solutions. FORMTEK Maine provides customers with application analysis, in-house design/

engineering and quality manufacturing within our 80,000-sq. ft. facility. Our proven track record is evidenced by thousands of successful coil processing and cut-to-length installations for major manufacturers in the appliance, automotive, lighting, metal furniture, HVAC, metal service center and contract job shop industries.



 **ROWE** 
CoilMate®/Dickerman®

76 Hinckley Road, Clinton, Maine 04927
(207) 426-2351 FAX: (207) 426-8868

Toll-Free 800-247-COIL
www.cwpcoil.com
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