



Tube Cutoff and End-Finishing Machines



Hautau Tube Cutoff Systems, LLC
Brookville, Indiana

Typical RC Cutoff System



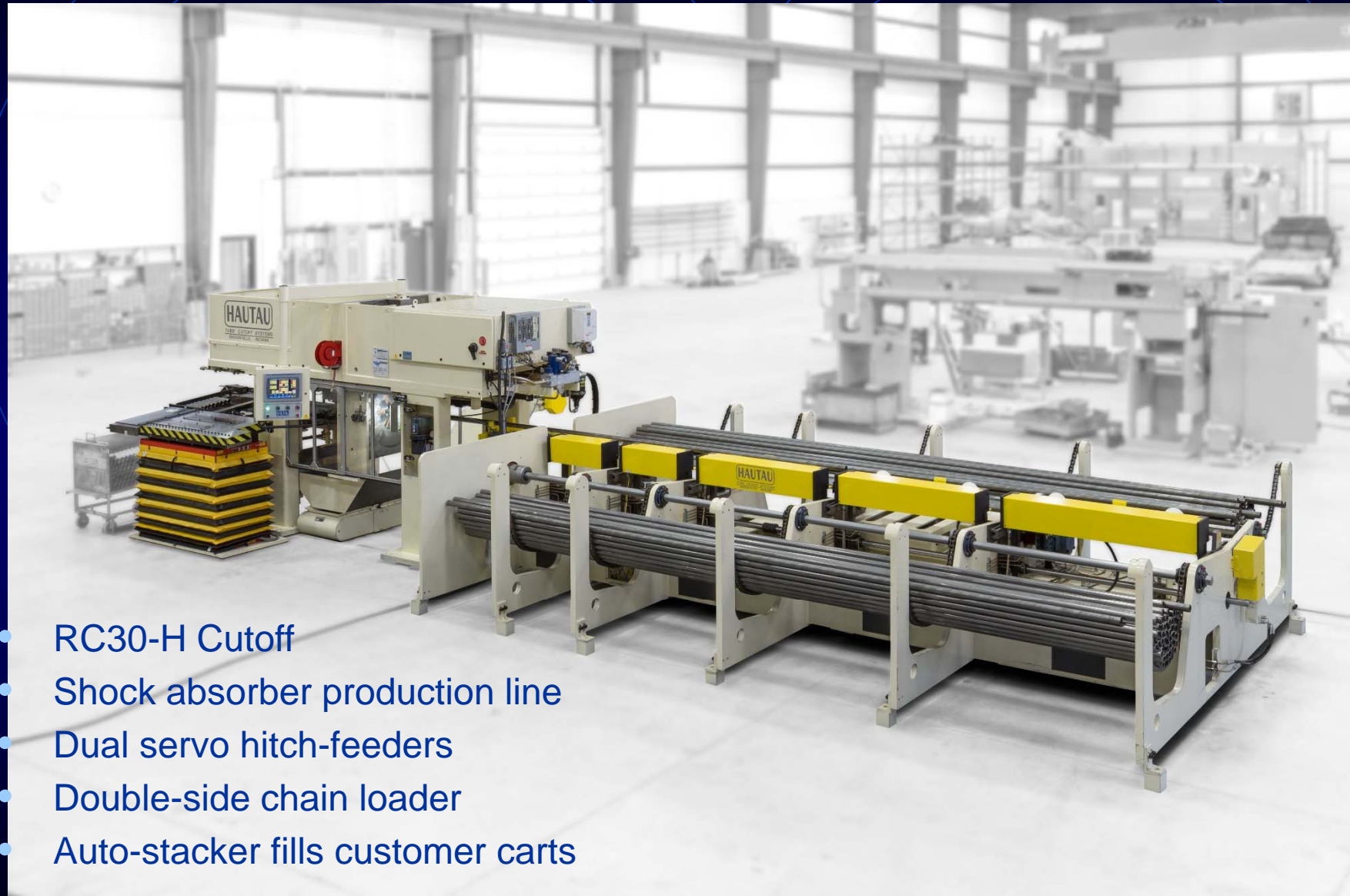
Right-hand orientation shown, also available in left-hand orientation



- RC60-H Cutoff
- Dual servo hitch-feeders
- Single-side chain loader
- Hydraulic power unit in loader
- Can be operated from either side

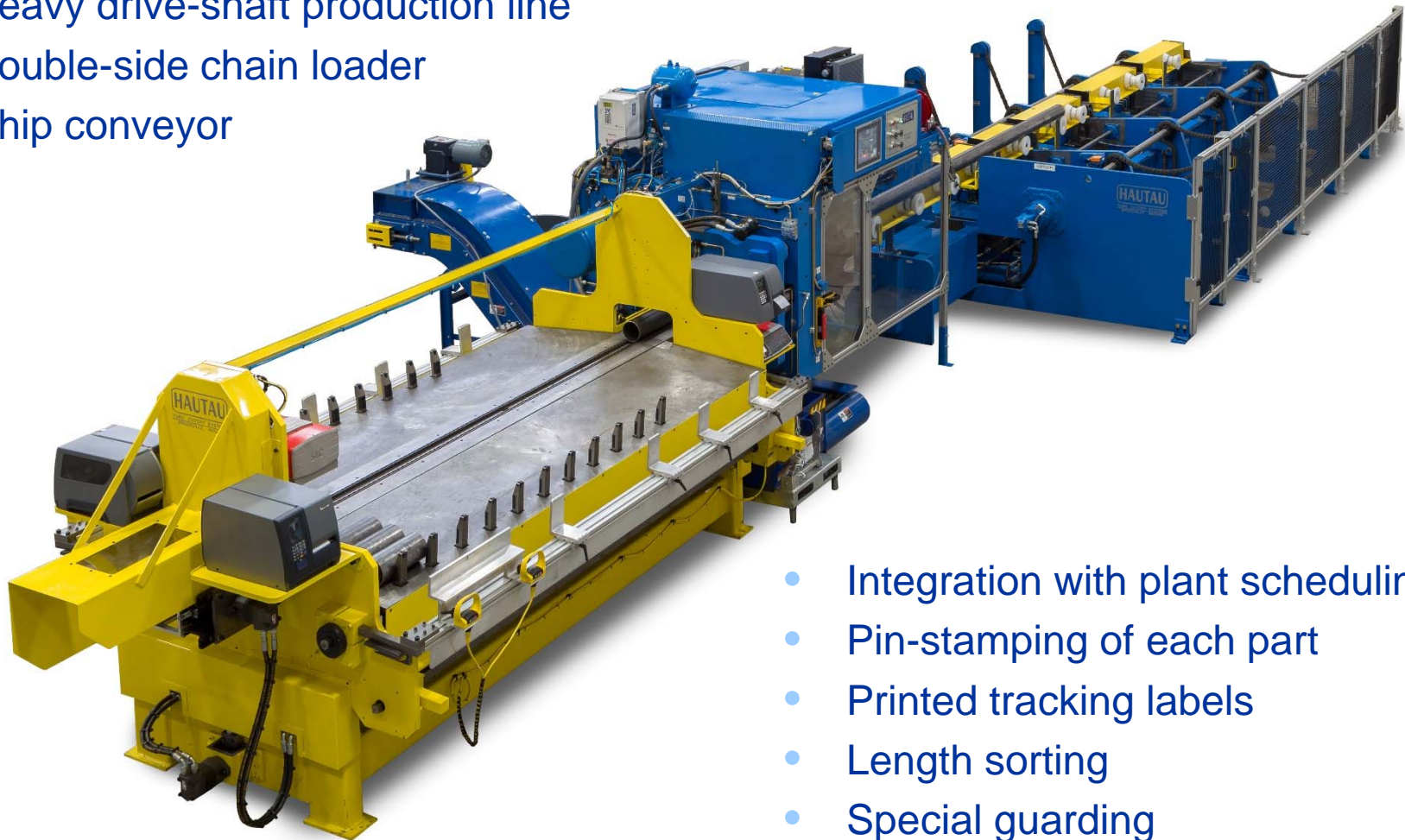


- RC60-H Cutoff
- Chip discharge from either side
- Pass-thru design, easy access
- Runout conveyor with kicker



- RC30-H Cutoff
- Shock absorber production line
- Dual servo hitch-feeders
- Double-side chain loader
- Auto-stacker fills customer carts

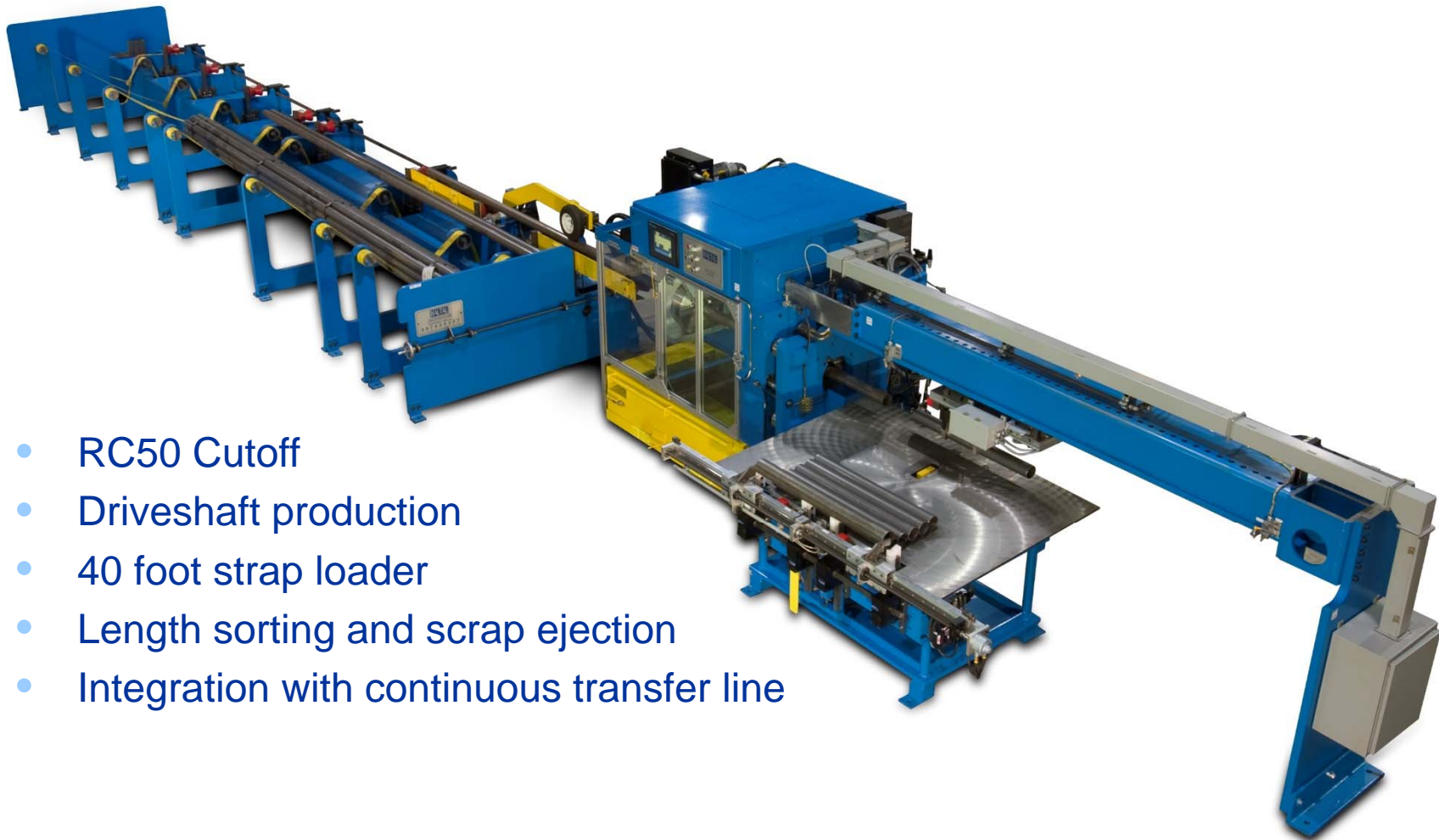
- RC60 Cutoff
- Heavy drive-shaft production line
- Double-side chain loader
- Chip conveyor



- Integration with plant scheduling
- Pin-stamping of each part
- Printed tracking labels
- Length sorting
- Special guarding



- RC60 Cutoff
- Hydraulic cylinder production line
- Double-side chain loader
- Length sorting and scrap ejection
- Integration with robot unloading system



- RC50 Cutoff
- Driveshaft production
- 40 foot strap loader
- Length sorting and scrap ejection
- Integration with continuous transfer line

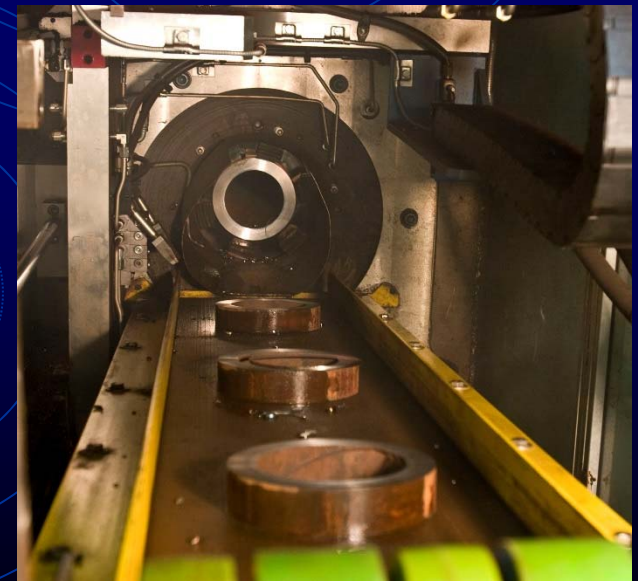


- RC30 Cutoff
- Continuous pilger mill production line
- Cutting titanium and zirconium tube
- 60 foot incoming lengths
- 20 foot cut lengths



- RC60H Cutoff
- Continuous tube mill production
- Dual servo hitch-feeders
- Dual servo pinch-roll feeders
- 70 foot tube lengths
- Length sorting and scrap separating

- RC80-R
- Reverse-feed cutoff
- Cutting bearing blanks
- Runout conveyor to tub
- Custom lift table
- Compacting chip bin



- RC80 Cutoff
- Integrated into existing tube handling and feeding system
- Continuous tube mill operation
- Cutting 70 foot, 3600 lb. tubes
- Trim “pointed” ends and tail scrap



- Single-side chain loader
- 24 foot standard length
- Longer lengths available
- All hydraulic drive



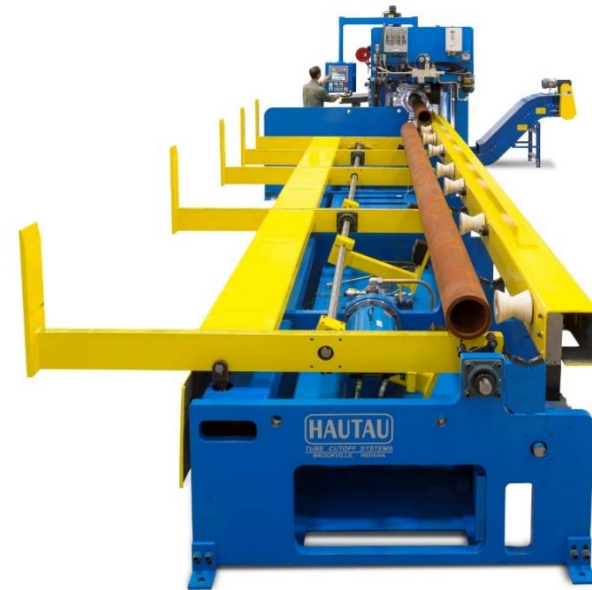
- Double-side chain loader
- Automatic changeover from one side to the other, including cutoff.
- 24 foot standard length
- Longer lengths available



- 40 foot strap-type loader
- Loading an RC50 tube mill re-cut system
- RC cutoff supplies a fully-automated driveshaft transfer line



- 20 foot heavy-tube loader
- Smooth handling of thick-wall tube
- Returns tubes back for unloading



Tube Sorting and Handling Systems

- Basic tube runout table
- Automatic height adjustment based on tube diameter
- Supports long tubes during cutoff
- Provides accumulation and inspection area
- Good for short parts and mixed runs



- 60" tube runout table with conveyor
- Automatic height adjustment based on tube diameter
- Provides accumulation and inspection area
- Direct transfer of cut pieces to bins or hoppers
- Positive separation of trim piece



- 120" tube runout table with conveyor
- Optional kick-off transfers long tubes sideways
- Alternate lengths can pass through to hoppers or bins
- Provides accumulation and inspection area
- Positive separation of trim piece

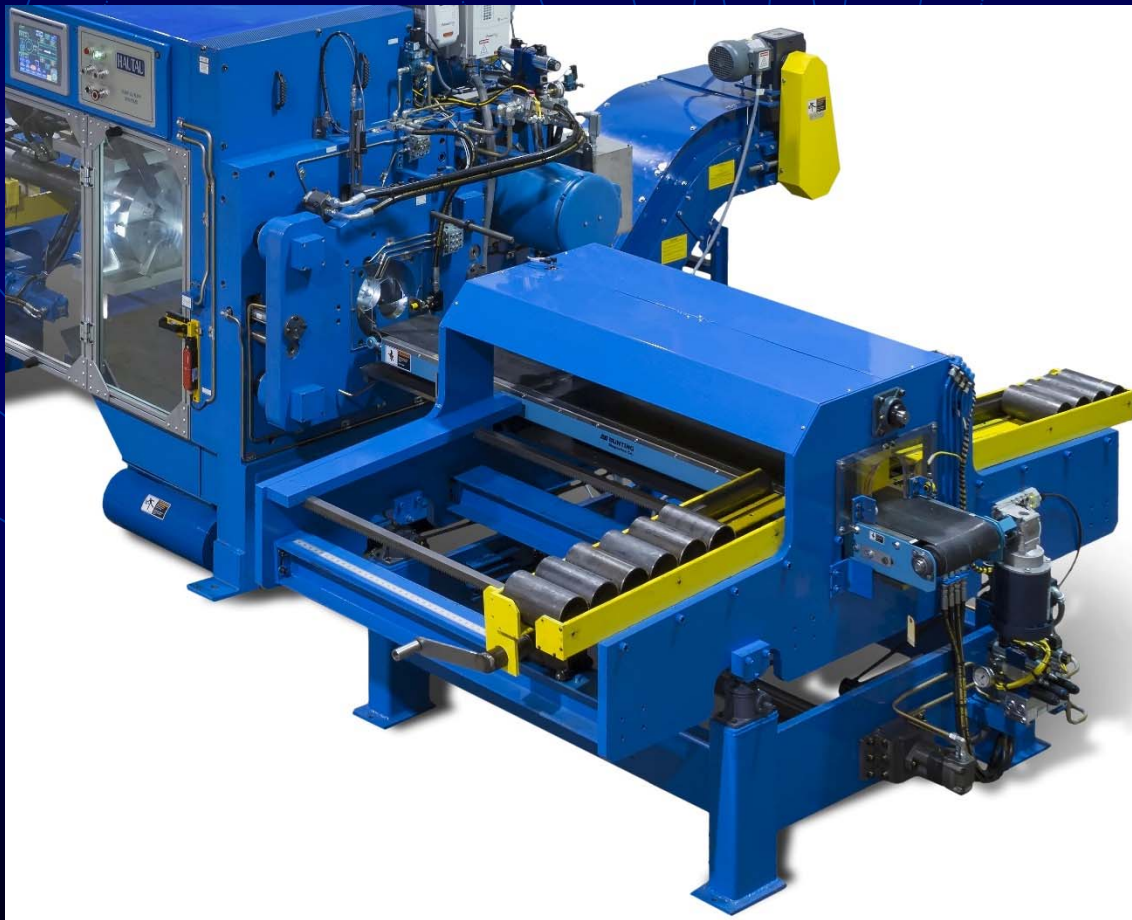


- Programmable auto-stacker
- Accumulates rows of cut tubes
- Transfers rows to customer's carts
- Row and height calculated based on tube diameter
- Positive separation of trim and remnant pieces

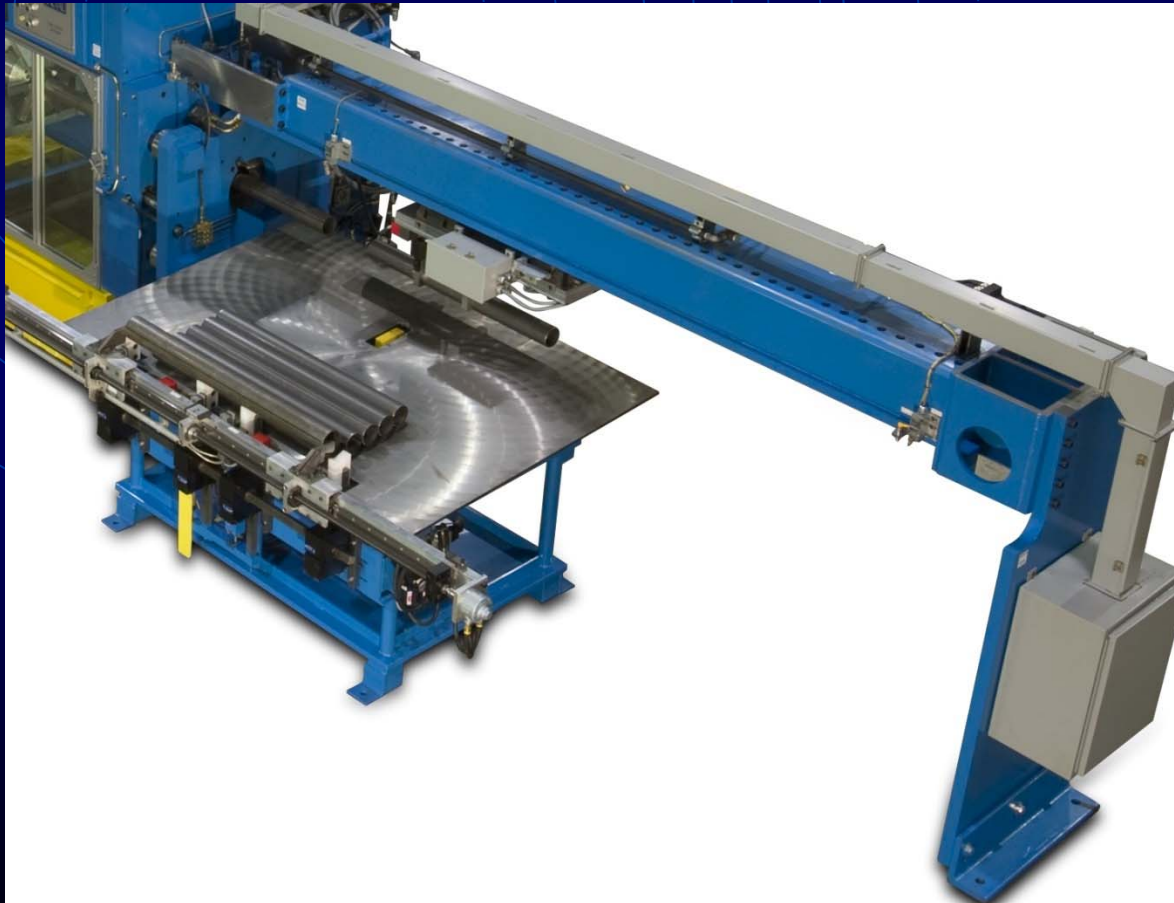


RC30H video producing shock absorber tubes

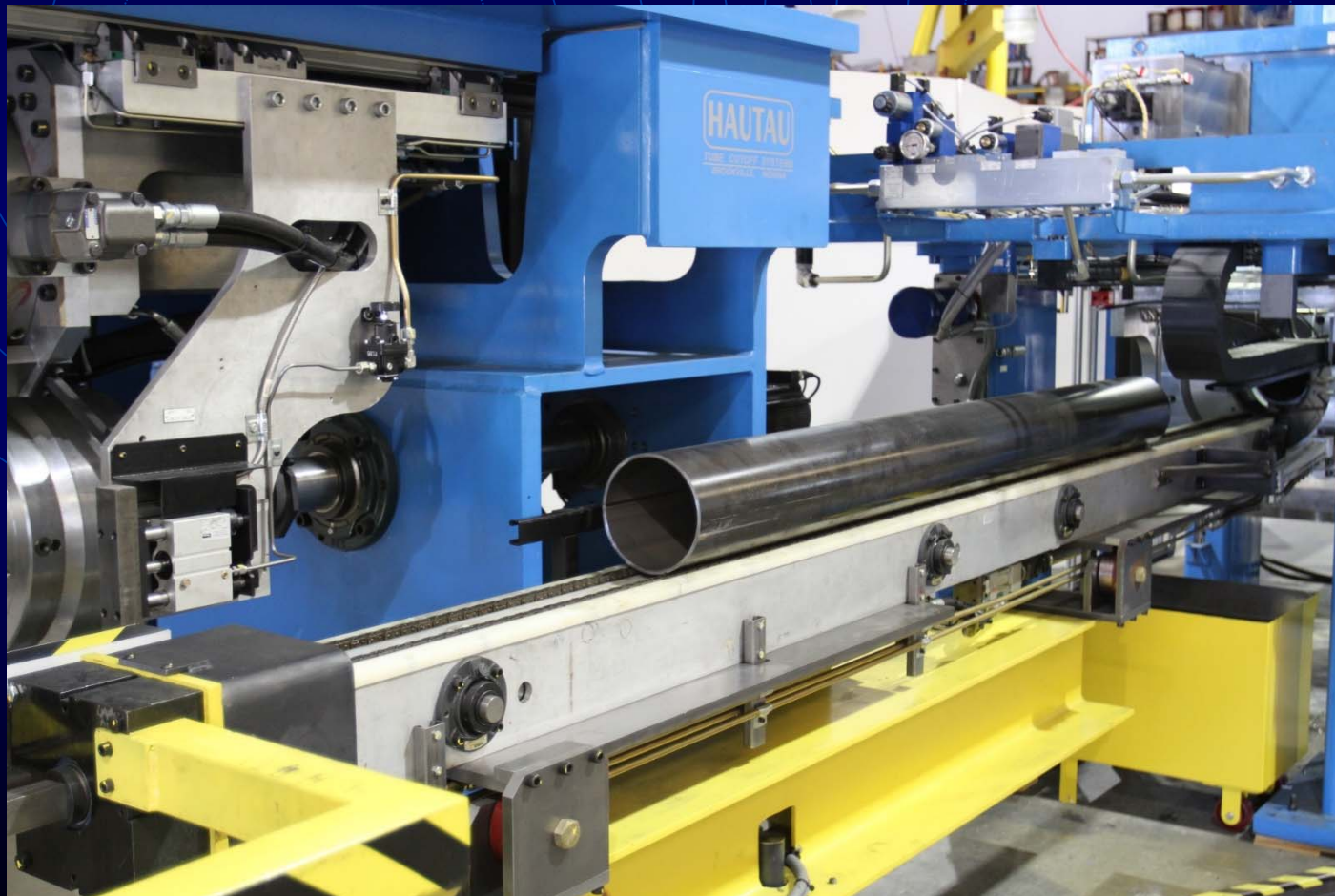
- Double-side runout conveyor
- Front-rear sorting of different cut lengths
- Accumulates rows of cut tubes
- Presents tube consistently for automatic unloading
- Trims and remnants pass through end gate to hopper



- Servo linear unloader
- Grips, transfers and releases precisely
- Tubes are lifted and centered vertically
- Tubes are centered length-wise and measured
- Alternate lengths are ejected to the rear
- Long remnants are transferred to hopper

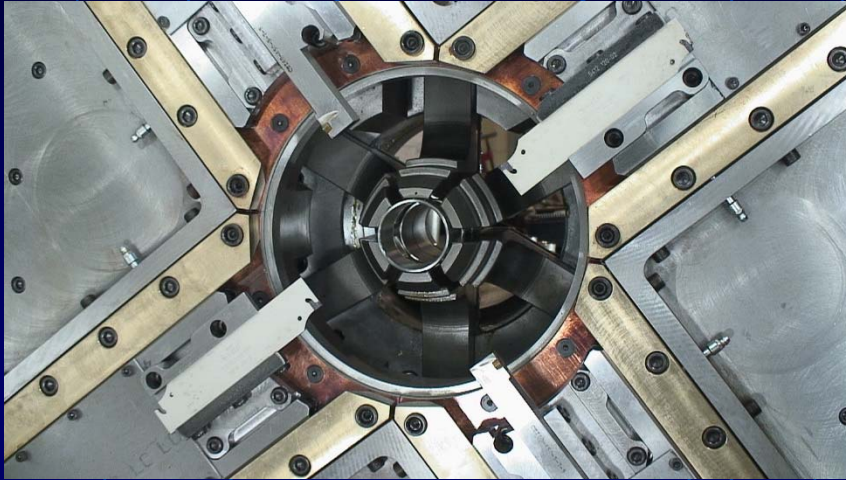


- Link-up conveyor
- Direct tube transfer to secondary operations
- Separation and ejection of alternate lengths
- Typically connects to boring or welding machine



- Adjustable tooling setup
- Most flexible for typical cutting

Tools fully retracted



Tools at tube OD



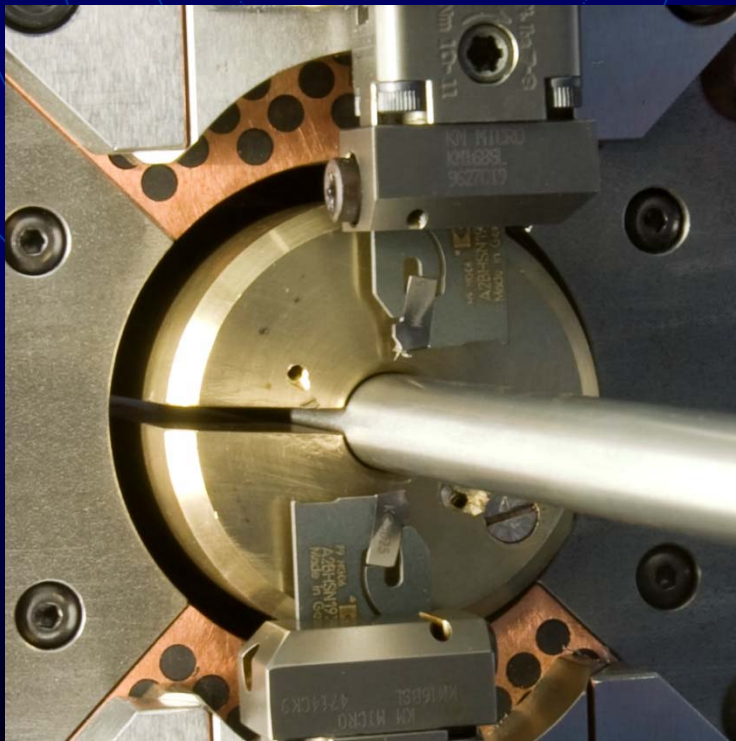
Tools at tube ID



Tools at tube ID detail



- Kennametal KM tooling
- Quick-change with single tool
- Preset tool positions
- Precise small-diameter cutting

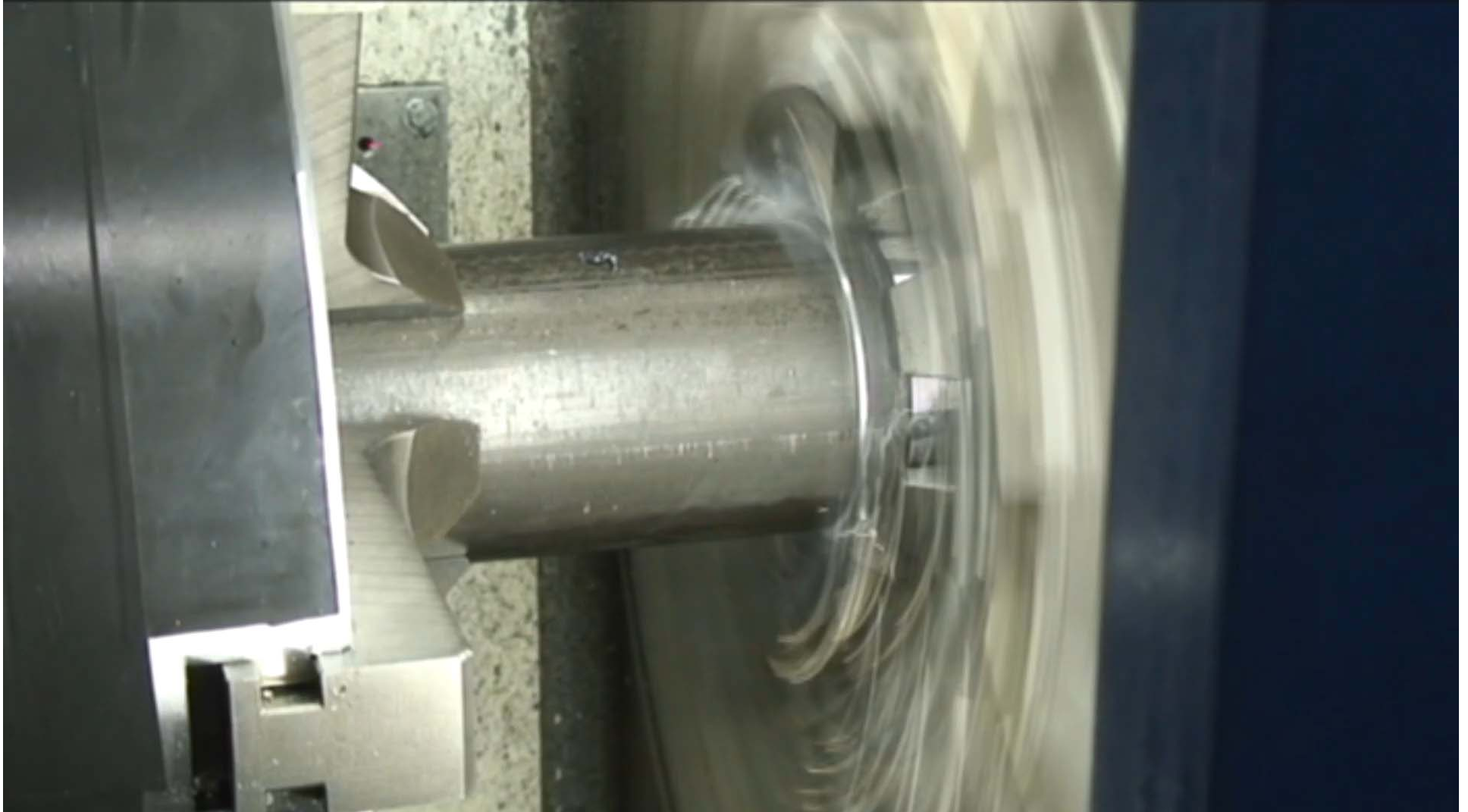


Chipless Tooling

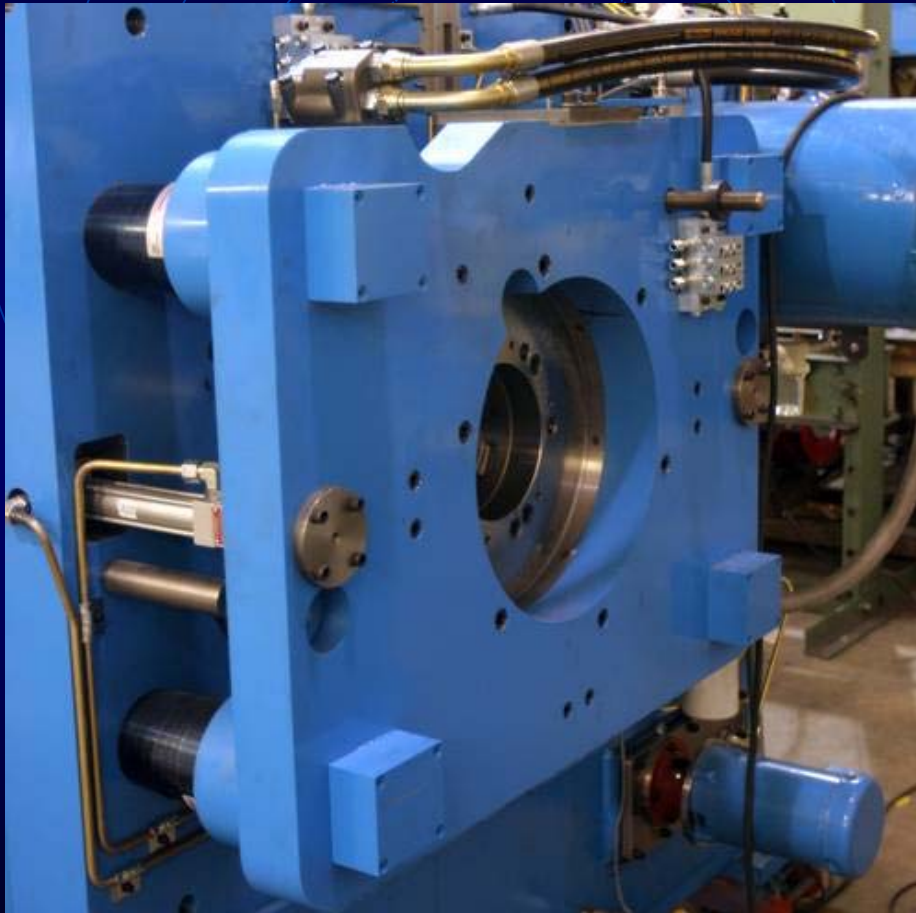
- Fast cutting of thin-wall tube
- Lowest per-cut cost
- ID roll-out tool resizes the tube ID
- Form wheels for grooving



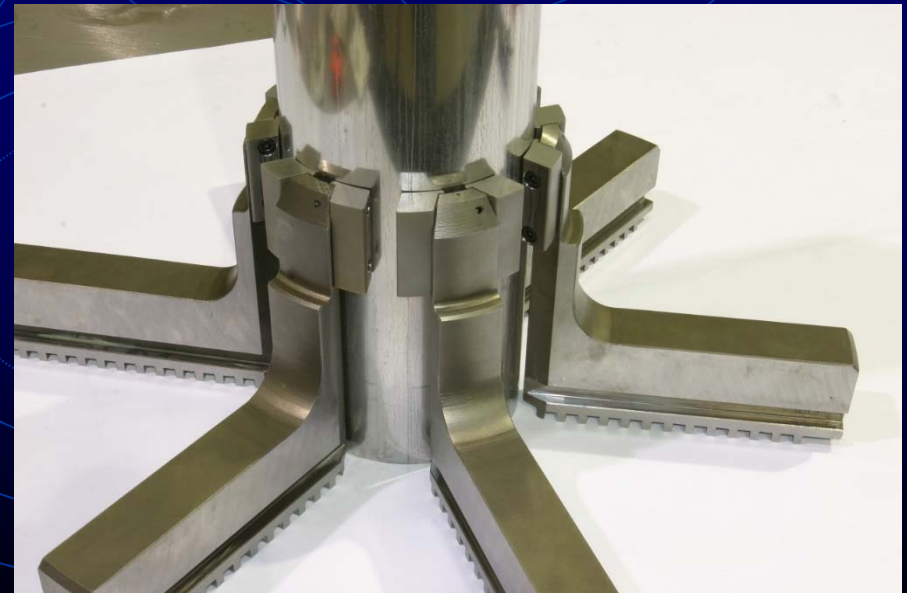
Video of cutting, chamfering & grooving



- Heavy-duty chuck slide
- Provides rigidity for heavy cutting
- Optional servo control for radiusing and special chamfer angles
- Long-stroke guides provide access for jaw change

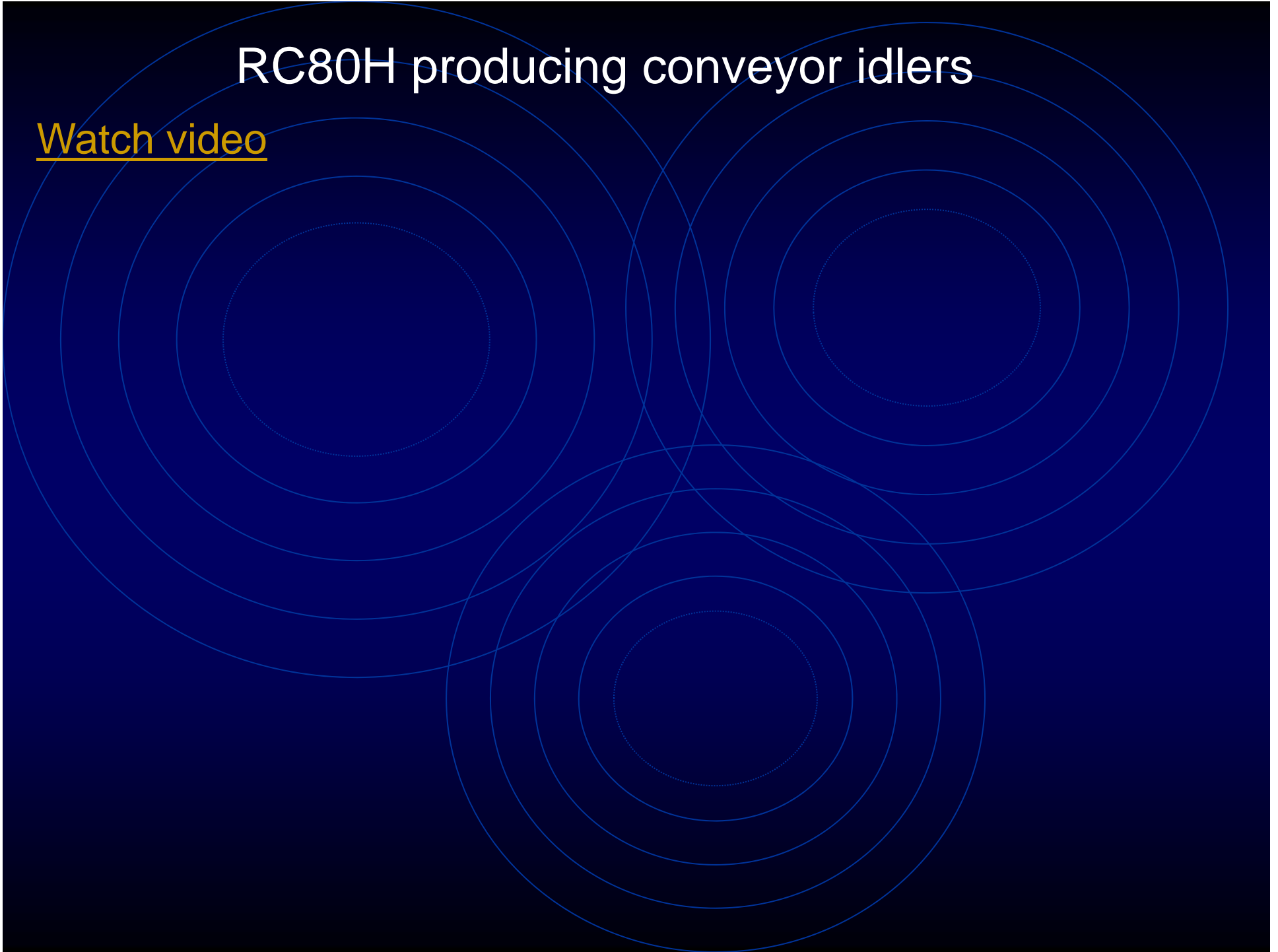


- Optional pads for large-diameter thin-wall tubing
- 6" x .058" shown



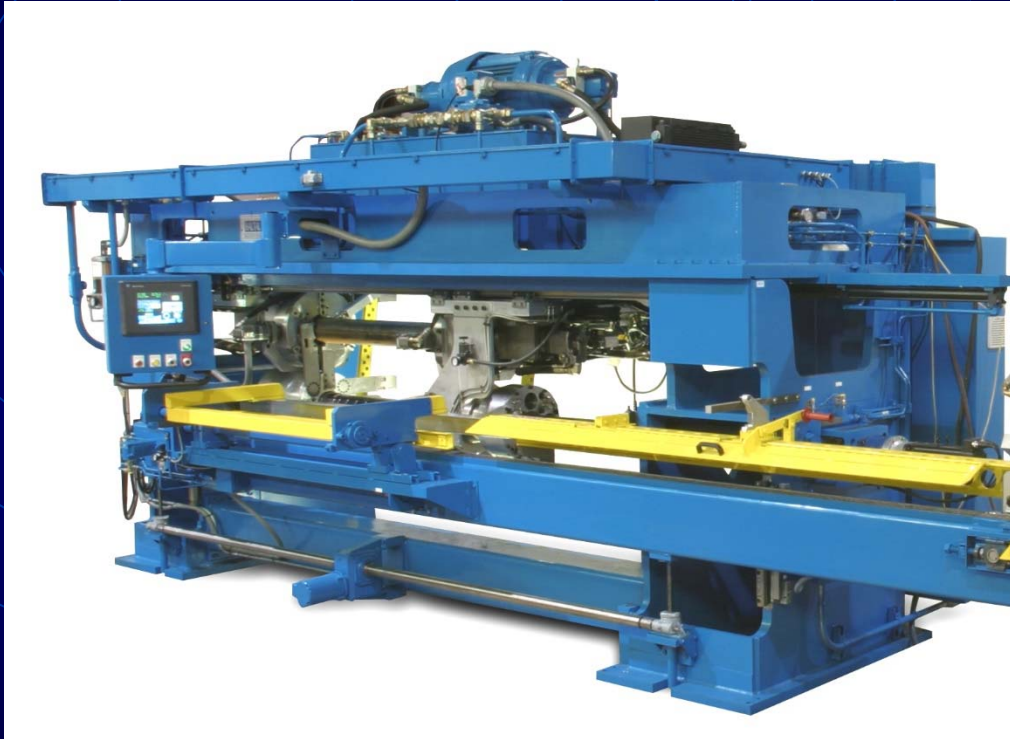
RC80H producing conveyor idlers

[Watch video](#)



CC80 Double-End Bore Machine

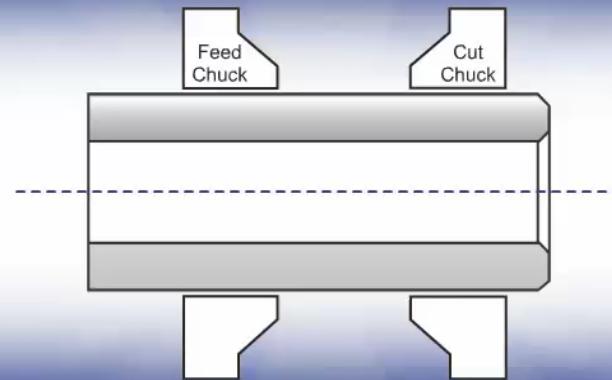
[Watch video](#)



Automated Cutoff and End-Finishing Systems

Process Overview

[BACK TO INTRO](#)



The tube is clamped rigidly by two 6-jaw hydraulic chucks.
This centers the tube and maintains precise control
of both tube ends after cutoff.

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