

NEWS RELEASE

ThyssenKrupp Materials NA Installs Stainless & Aluminum Slitter

Saline, MI – ThyssenKrupp Materials NA, a non-ferrous coil distributor and processor has installed a Braner/Loopco Double-Loop Triple Turret Head™ Coil Slitting and Slit Coil Packaging System in its new Saline, MI facility. The new Slitting Line is capable of processing stainless, aluminum, copper, & brass coils in gauges from .010" through .250" at slitting speeds to 1,000 FPM. Coil sizes can range up to 40,000# x 60" wide up to 74" OD with master coil and slit coil IDs of 16" and 20".



Hi-Production Triple Turret Head™ Stainless & Aluminum Coil Slitting Line

Entry Coil Handling: ThyssenKrupp receives many of its thin-gauge non-ferrous master coils eye axis vertical on pallets. A Coil Car-Tipper is employed to upend palletized coils to the eye horizontal position for processing. The Coil Car-Tipper efficiently "tips" the coil 90-degrees and loads the coil onto an Entry Storage Horn where 4-coils can be staged ahead of the Slitting Line.



Coil Car-Tipper upends palletized coils and loads onto a 4-Arm Entry Storage Horn

Paper Interleaved Master Coils: Surface-critical stainless and aluminum coils often contain paper interleaved between coil wraps. The ThyssenKrupp Slitting Line is equipped with a Paper Winder that neatly rewinds interleaved paper from the master coil as it is being processed.



Interleaved Paper Winder efficiently handles interleaved paper

Single/Double-Loop Entry Section: The Slitting Line employs Braner/Loopco's hi-pass line arrangement that places the strip processing equipment above the coil OD to eliminate cross-breaks from forced reverse bending the strip. Hi-pass line saves floor space, provides excellent strip tracking, and allows the DC motor driven Uncoiler to operate in single and double-loop modes with no entry looping pit.



DC Loop Control Uncoiler operates in single and double-loop operating modes. The Slitter Entry Unit is equipped with power adjusted Side Guides, Automatic Edge Guide, PVC Laminator, and an Entry Crop Shear

Pushbutton Tooling Lock-Up Triple Turret Head Slitter™:

The 200 HP Turret Head™ Slitter is equipped with three 9" quick-change heads. Tooling lock nuts are eliminated in favor of a quick and efficient pushbutton operated hydraulic tooling lock-up system. The Slitter arbors are supported in precision machine tool bearings mounted in massive one-piece stress-relieved and precision ground solid steel housings that weigh nearly one-ton each. The rotatable Turret housing is supported on a 300,000# capacity anti-friction bearing for rigidity. The outboard arbor bearing housing is mounted on anti-friction machine tool slides and is opened and closed by pushbutton. Aluminum-bronze slides guide the vertically adjustable upper arbor bearing boxes and allow "zero" axial arbor movement. Massive upper arbor bearing boxes are adjusted by motorized zero-backlash screw jacks equipped with electronic encoder digital position readouts for quick, precise positioning.



Pushbutton tooling lock-up Turret Head™ Slitter exchanges Slitter heads in about one-minute



Turret Head™ Slitter arbors are easily accessible with no obstructions so re-tooling is accomplished faster with less set-up fatigue than with any other slitter head design.

Scrap Disposal: The ThyssenKrupp Slitter employs a pair of pushbutton unloading Scrap Winders. Scrap Winders are extremely reliable and require little maintenance. Scrap bundles discharged from the Winders are deposited onto a hinged steel belt conveyor that carries the bundles to a large scrap container.



A steel belt conveyor carries scrap bundles to a scrap container.

Surface-Critical Strip Tensioning: The ThyssenKrupp line employs two tensioning devices that develop strip tension necessary to produce tight straight-walled light gauge slit coils. A Pad Tensioner is employed for tensioning non-critical coil and the non-marking Roll Tensioner is employed for processing surface-critical coil. Quick-change entry strip separators guide the slit strips from the looping pit into the Tensioner. The Pad Tensioner is equipped with quick-change friction pads that can be exchanged with fresh pads in one-minute. The Roll Tensioner employs non-marking tension rolls with special roll covers to generate strip tension without surface marking. The tension rolls are equipped with variable tension control and a jog drive for strip threading.



Tension Pad and Non-Marking Tension Rolls can be employed in tandem or engaged independently.

Exit End Equipment: The Overarm Separator is rigidly mounted onto the Exit Unit frame to eliminate frame deflection and resulting misalignment that can cause coil side-wall scuffing and coil oscillation. A heat-treated swing-out tooling arbor allows Overarm



Exit Unit supports the Exit Shear, Side Adjust Overarm, Pass Line Roll, and Paper Interleaver

tooling to be exchanged in 2-minutes. A "side-adjust" feature allows Overarm alignment to be adjusted while running. An Exit Shear is used to "split" coil ODs and square tail ends. A Feed Table that acts in concert with an Overarm mounted deflector plate forms a funnel to guide slit strips from the Exit Pass Line Roll to the Recoiler gripper bar. A Paper Interleaver can feed pre-cut paper into the rewinding slit coils.



A swing-out Speed Load Overarm arbor allows for quick exchange of pre-tooled separator arbors without lifting

Patented One-Minute 16"/20" Recoiler: A large parallel shaft helical gear reducer driven by a 250 HP DC motor powers the Recoiler. The 16" diameter rewind drum is manufactured from 2" thick heat-treated forged steel segments. Patented "Speed-Load" Recoiler Fillers change slit coil IDs from 16" to 20" in one-minute.



250 HP x 16" ID Recoiler with 20" One-Minute Speed-Load Fillers

Wireless Coil Unloading Control: The Coil Unloading Car is equipped with a "wireless" operator control that allows the Car to be operated from a safe distance. Elimination of the common wire pendant control improves safety and reduces maintenance requirements.



Wireless Coil Car control allows Car operation from a safe distance.

Exceptional productivity, outstanding support, and bullet-proof reliability made ThyssenKrupp's selection of a Braner/Loopco Turret Head™ Slitter "no-brainer".



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