

NEWS RELEASE

ThyssenKrupp Materials NA Installs Automatic Coil Packaging System

Saline, MI – ThyssenKrupp Materials NA, a large non-ferrous coil distributor and processor has installed a new Braner/Loopco Automatic Slit Coil Packaging System in its new Saline, MI facility. The new Coil Packaging System efficiently handles and packages stainless, aluminum, brass, and copper slit coils produced from ThyssenKrupp's Braner/Loopco Turret Head™ Slitting Line. Slit coils range in size to 10,000# x 24" wide up to 74" OD with coil IDs of 16" and 20".

"Wireless" Control Coil Unloading Car: A Coil Car unloads finished slit coils from the Slitting Line Recoiler and transfers the slit coil group to a 4-Arm Turnstile at the entry end of the Packaging System. The Car is equipped with adjustable narrow coil support stanchions that stabilize and secure the slit coil group during the coil transfer. A hand-held "wireless" Coil Car control provides excellent operator control mobility and allows the Car to be operated from a safe distance.



Wireless control Coil Car transferring slit coils from the Slitting Line to a 4-Arm Turnstile

"Operatorless" Programmable Slit Coil Downender: The 4-Arm Turnstile positions the slit coil group at the unloading station where a Slit Coil Downender removes individual slit coils one at a time from the Turnstile arm and deposits individual coils onto a powered roller conveyor. The Downender is controlled by a programmable controller into which the width of each slit coil at the Turnstile unloading station is entered via operator console keypad. After all coil widths are entered, the Downender:

- * Raises up and travel to the coils on the Turnstile arm
- * Extends the arbor to match the width of the coil being removed
- * Lifts the coil off the Turnstile arm
- * Transports the coil to the conveyor
- * Tips the coil 90-degrees to horizontal and discharges the coil onto power conveyor
- * Begins the next cycle

The coil downending cycle is full automatic and operatorless after the coil widths are entered into the programmable controller keypad.



Programmable Slit Coil Downender automatically separates and downends coils

Automatic Coil Staging Conveyor: Slit coils discharged from the Downender are conveyed to a Strapping Machine via Power Roller Conveyor. The Conveyor is designed to stage four 74" OD

coils between the Downender and the Strapping Machine and is comprised of 4-separately driven conveyor sections with each section independently controlled. Coil advancing to the Strapping Machine is full automatic.



Staging Conveyor automatically advances coils to the Strapping Machine

Semi-Automatic Slit Coil Strapping Machine: Slit coils are carried from the Downender to a Strapping Machine that applies multiple radial straps onto the coil. Coils are carried into and centered on the Strapping Machine via power conveyor rolls. Three (3) powered conical rolls lift the coil from the conveyor rolls and rotate the coil horizontally for radial strap positioning. Joystick operator controls allow coil positioning to be accomplished quickly and efficiently. A Signode strapping head applies 3/4" steel strapping in semi-automatically. The strapping head is mounted in a parallelogram balance frame above the coil. Up-down and in-out handles are mounted on the balance frame for positioning the strapping head on the coil. A "strap feed" pushbutton is mounted in the up-down handle for feeding the strap under the coil through the coil ID. The strap free end is manually guided into a chute in the Signode head, and the "cycle" pushbutton mounted in the in-out handle initiates the strap tension and seal cycle securing the strap on the coil.



Semi-Automatic Strapping Machine applies radial straps

Automatic Coil Stacker: Radially strapped coils are sent from the Strapping Machine to the Automatic Coil Stacker where coils are automatically stacked onto a pallet. Coils carried into the Stacker are automatically centered by the Stacker pick-up station. The coil is gripped from the ID and OD and transported to a Coil Sorting Turntable stacking station where the coil is released and placed



Coil is centered in the Stacker and secured from the ID and OD for transport to the stacking station

onto an awaiting pallet or coil package. The Turntable rotates CW & CCW to sort various coils into customer packages. Turntable stations are color coded to make coil package sorting quick and easy. Pressing a color coded pushbutton commands the corresponding color Turntable segment to travel the shortest way to the stacking station. The stacking cycle is fully automatic. A "multi-grab" program can be used when stacking narrow coils. The program shortens coil-to-coil cycle time by allowing the Stacker to collect a programmed number of narrow coils before traveling to the stacking station.



Coil deposited onto pallet at the Turntable stacking station



Second coil is centered in the Stacker awaiting transport to the stacking station



Two coil package completed at the stacking station

Pack Weigh Station: The finished coil package is rotated to the Turntable discharge station in-line with a Weigh Station where the pack weight is displayed on a digital readout and printed. A hydraulic cylinder powered package pushoff transfers the package from the Turntable to the Weigh Station. After weighing, the pack is conveyed to an unload station where it is removed from the line.



Two coil package positioned for discharge from the Turntable



Completed package discharged from the Turntable onto the Weigh Station



End of the line where completed coil packages are stored and removed

Stretch Wrapping: Completed coil packages can be wrapped for shipment on a free-standing Stretch Wrapper that services slit coil packages from the Packaging System and large palletized coils.



Free standing Stretch Wrapper applies protective wrap for shipping

Exceptional productivity, outstanding support, and bullet-proof reliability made ThyssenKrupp's selection of a Braner/Loopco Automatic Slit Coil Packaging System "no-brainer".



Braner USA, Inc., 9301 W. Bernice St., Schiller Park, IL 60176
Phone (847) 671-6210 Fax: (847) 671-0537
www.braner.com



ThyssenKrupp Materials NA
1715 Woodland Drive
Saline, MI 48176
Phone: (734) 429-6120
Fax: (734) 429-4149
www.thyssenkrupp.com