

NEWS RELEASE

Rolled Metal Products Installs 60" Stainless Slitting & Coil Packaging System

Bensalem, PA - Rolled Metal Products, a large stainless, aluminum, copper, brass, and cold rolled strip coil distributor and processor has installed a high-production Braner/Loopco Single-Loop Turret Head™ Coil Slitting and Slit Coil Packaging System in its new facility in Bensalem, PA, a Philadelphia suburb. The new Slitting Line is capable of processing 40,000# x 60" wide ferrous and non-ferrous metal coils in gauges from .008" through .125" at slitting speeds to 1,200 FPM. The Slitting Line is designed to process 16" and 20" ID 1,000 PIW ferrous and non-ferrous surface-critical coil to precision width tolerances with paper interleaving and PVC surface protection capabilities.



Hi-production 40,000# x 60" Turret Head™ Slitting Line processing a paper interleaved 304 stainless coil. A "wireless" control Coil Car loads the Slitting Line

Compact Hi-Pass Line: The Rolled Metal Products Slitting Line is an example of Braner/Loopco's compact hi-pass line design that establishes the strip pass line above the coil OD so that no pass line or strip deflector rolls touch the top of the strip, an important factor for processing surface-critical coil. With an Uncoiler to Recoiler dimension of about 40', the compact system design offers operational benefits such as floor space conservation, fast coil threading, excellent coil tracking, and clear operator sight lines.



Hi-Pass Line eliminates top-side strip scuffing and reverse strip bending

PVC Laminator: A PVC Laminator allows Rolled Metal Products to apply surface protection PVC film onto the top and bottom of surface-critical strip before the strip enters the slitter. PVC rolls are supported on expanding shafts equipped with variable film tension control. Quick-opening film laminating rolls have special roll covers and variable pinch pressure.



Top and bottom PVC Laminator with expandable shafts and quick-open laminating rolls

Turret Head Slitter™: An 8" arbor x 150 HP 2-head quick-change Turret Head™ Slitter produces precise tolerance slit strips with minimal burr throughout the entire range of gauges and mechanical properties. The Slitter arbors are supported in precision machine tool quality 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 precision 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. Huge upper arbor bearing boxes are positioned by motorized zero-backlash screw jacks equipped with electronic encoder digital position readouts for quick, precise positioning.



Turret Head™ Slitter changes from one order to the next in about one-minute



A Turret Head™ Slitter is more rigid and precise than any other multi-head slitter design, and because the arbors are easily accessed with no obstructions, re-tooling and order change is accomplished faster than with any other slitter head design

Surface-Critical Strip Tensioning: The Rolled Metal Products line employs two tensioning devices that develop strip tension necessary to produce tight straight-walled light gauge slit coils. A Pad Tensioner is used for tensioning non-critical coil and the non-marking Roll Tensioner is employed when tensioning 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 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.



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

16"/20" Recoiler: A large parallel shaft helical gear reducer driven by a 200 HP DC motor powers the Recoiler. The 16" diameter rewind drum is manufactured from heat-treated 2" thick forged steel segments. Lightweight hard plastic Fillers allow Rolled Metal Products to produce 20" ID slit coils.



200 HP x 16" ID Recoiler with 20" hard plastic bolt-on Fillers

Coil Packaging: A semi-automatic Slit Coil Packaging Line is employed to strap and package the slit coils. A "wireless" control Coil Car transports coils from the Recoiler to a 4-Arm Turnstile. An "operatorless" Programmable Downender automatically picks-off a slit coil from the Turnstile arm and places the coil onto power conveyor. A coil is automatically conveyed to a Coiltech/Signode Semi-Automatic Strapping Machine that quickly applies multiple radial straps onto the coil. The strapped coil is conveyed and transported to three-coil stacking stations by a coil grab.



Semi-Automatic Coil Packaging Line



Downender automatically "travels and picks" coils off the Turnstile arm. Various coil sizes are programmed into a PLC keypad.

Exceptional productivity, outstanding support, and bullet-proof reliability made Rolled Metal Products' selection of a Braner/Loopco slitter for their new Bensalem plant a "no-brainer".



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