

NEWS RELEASE

Amtex Steel Installs 60,000# x 72" x 1/4" Braner/Loopco Slitter

University Park, IL – Amtex Steel, Inc, a large flat rolled steel distributor and coil processor has installed a new high-production Braner/Loopco Single-Loop Turret Head™ Coil Slitting & Packaging Line in its University Park, IL coil processing facility. The new Slitting Line is capable of processing 60,000# x 72" wide hot rolled black, pickled, cold rolled and galvanized carbon steel coils in gauges from .015" through 1/4" at processing speeds to 1,000 FPM. The new high-production quick-change Turret Head™ Slitting Line joins Amtex Steel's cut-to-length, shearing, and strip edge conditioning capabilities, and expands Amtex Steel's capacity to service its customers with just-in-time delivery of high-quality close-tolerance slit coil throughout a wide gauge and mechanical property range.



60,000# x 72" x 1/4" Single-Loop Turret Head™ Slitting Line

The Slitting Line is equipped with Entry and Exit Coil Storage Turnstiles, Entry and Exit Coil Cars, Crop Shears, a 150 HP quick-change Turret Head™ Slitter, quick-change Tensioner, and a 250 HP x 2-ratio Recoiler.



60,000# coils are staged on an Entry Turnstile and loaded by Floor Level Coil Car

Compact High Pass Line: The Amtex Slitting Line is an example of Braner/Loopco's high-production compact high pass line arrangement that positions the Uncoiler and Recoiler at floor level while the equipment between is elevated to match the largest coil OD. High pass line eliminates reverse-bending of the strip against the natural coil-set as the coil is threaded and processed. Because the strip is never reverse bent by force, strip threading is extremely fast and coil-breaks generated by reverse strip bending are eliminated. The high pass line design eliminates strip surface scuffing and scratching damage as all strip deflector rolls are located below the strip and do not touch the strip surface while running. Compact high pass provides fast coil threading, excellent coil tracking, and perfect coil side-wall build-up while occupying minimal floor space.



Coil are processed with no reverse strip bending against the natural coil-set, which eliminates equipment induced coil-breaks

Entry Coil Prep Station: The Coil Peeler, Pinch Rolls, Automatic Edge Guide, Side Guides, Non-Contact Thickness Gauge, and Crop Shear are installed in close proximity on a common base immediately ahead of the Turret Head™ Slitter and close to the Uncoiler. The unique Coil Prep Station design makes heavy and thin gauge coil threading fast and easy while providing excellent coil tracking at high processing speeds. Laser beam aided Uncoiler master coil alignment and electronic Side Guide position readouts reduce coil loading and threading time.



Unique Entry Coil Prep Station combines entry coil threading and guiding equipment into a single compact machine that speeds coil loading and threading

Turret Head Slitter™: A 9" arbor x 150 HP 2-head quick-change Turret Head™ Slitter produces precise width tolerance slit strips with minimum 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



Turret Head™ Slitter is precise and rugged with bullet-proof reliability

that weigh nearly one-ton each. The rotatable Turret housing is mounted on a 300,000# capacity bearing, and the hydraulic cylinder positioned outboard arbor housing rides on zero-maintenance precision machine tool slides. Large aluminum-bronze blocks secure the vertically adjustable upper arbor bearing boxes and allow "zero" axial arbor movement. Huge upper arbor bearing boxes are vertically positioned by motorized anti-backlash screw jacks with electronic encoder digital position readouts that allow fast and precise vertical knife clearance adjustment. Because the exchangeable Slitter heads are never detached, shuttled, or disassembled, the Turret Head™ design is more rigid and precise than any other multi-head Slitter design. In addition, access to the set-up arbors is free and clear with no obstructions so re-tooling is accomplished faster than with any other slitter. A Turret Head™ Slitter exchanges heads in less than 2-minutes.



Turret Head™ Slitters set-up faster, change heads faster, and occupy less floor space than any other Slitter design

Exit End: The Amtex line is equipped with a Pad Tensioner that generates strip tension necessary to rewind tight straight-wall slit coils. Strip tension is adjustable and regulated from the main operator console. Entry strip separator tooling is mounted on a lightweight aluminum alloy arbors that exchange with pre-tooled arbors in 60-seconds. Tension Pads are also exchanged in 60-seconds. An Exit Shear is employed for squaring coil tails and splitting coil ODs. The Overarm Separator is solidly attached to the Exit Unit frame to eliminate frame deflection and resulting misalignment that causes coil side-wall scuffing and coil oscillation. A "swing-out" Overarm allows pre-tooled arbors to be exchanged in 2-minutes. A Hydraulic Threading Funnel directs slit strips from the Exit Pass Line Roll into the Recoiler gripper bar.



Exit end equipment generates strip tension; crops coil tails; and rigidly supports the Overarm Separator and Threading Funnel.



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

Recoiler: A 250-HP 2-ratio Recoiler is equipped with a massive Recoiler drum manufactured from custom forged 2" thick segments hardened to Rc 58. A 3" diameter solid steel gripper bar secures the slit strips against a heat-treated serrated steel anvil. The Recoiler drum is mounted on the 14" diameter output shaft of a 250-HP 1.2 service factor parallel shaft helical gear reducer.



Massive 250-HP 2-ratio Recoiler has a 14" diameter main shaft

Exit Coil Handling: Slit coils are removed from the Recoiler by Floor Level Coil Car and transferred to a 4-Arm Turnstile. Slit coils are individually unloaded from the Turnstile by a Slit Coil Downender that conveys the coils to a Strapping Machine and Coil Stacker.



Slit coils unloaded by Floor Level Coil Car



A Slit Coil Downender removes coils from the 4-Arm Exit Turnstile and feeds the coils to the Strapper and Coil Stacker.

Quality, Productivity, Bullet-Proof Reliability, know-how from building nearly 600 Slitting Lines, plus outstanding technical support made Amtex Steel's selection of a Braner/Loopco Turret Head™ Slitting Line a "no-brainer".

amtex steel, inc.
Precision Shearing, Slitting & Edging

700 Central Avenue
University Park, IL 60466
Phone: (708) 672-2000
Fax: (708) 672-2200
www.amtexsteel.com