

NEWS RELEASE

Servilamina Summit Mexicana Installs Turret Head™ Slitting & Packaging Line

Queretaro Mexico – Servilamina Summit Mexicana S.A. de C.V., a prime carbon steel coil and sheet distributor and coil processor has installed a high-strength Braner/Loopco Single-Loop Turret Head™ Coil Slitting and Slit Coil Packaging Line in their Queretaro Mexico coil processing facility approximately 100-miles NW of Mexico City. The new Slitting Line is capable of processing 25-ton x 60" wide 114,000 PSI tensile strength hot rolled, pickled, cold rolled, and galvanized coils in gauges from .024" through 1/4" at line speeds to 1,000 FPM. The Slitting Line is equipped with Entry and Exit 4-Arms, Entry and Exit Crop Shears, a 200 HP Turret Head™ Slitter equipped with two quick-change 10" slitter heads, heavy-gauge strip tensioning equipment, and a 250 HP x two-ratio Recoiler with patented "no-bolt" 20"/24" Speed-Load Recoiler Fillers that allows Servilamina Summit to change from 20" to 24" ID coil production in one-minute. The Slit Coil Packaging Line straps and packages 1" to 24" wide slit coils weighing up to 10,000# in a quick and efficient manner.



25-ton x 60" x 1/4" Single-Loop Turret Head™ Slitting Line. Notice the entire slitting line is within clear view from the main operator station.

Compact Line: Employing the Braner/Loopco compact line design, the Servilamina Summit Slitting Line occupies less than 45' from Uncoiler to Recoiler. The unique Slitting Line arrangement conserves floor space, allows extremely fast coil threading, improves personnel safety and productivity by positioning all line components from entry end to exit end within the operator's sight lines, and eliminates the need for cameras and TV monitors. The compact Slitting Line employs the modern "hi-pass line" equipment arrangement that positions the strip-processing equipment above the coil OD in order to eliminate "reverse-bending" as the strip is threaded and processed. Compact hi-pass line benefits include faster coil threading; elimination of equipment-induced coil-breaks; elimination of strip surface damage from entry and exit pass line rolls; produces straighter sidewall slit coils; and generates tonnage unmatched by any other slitting line.



Entry end view shows compact Uncoiler to Slitter spacing.

Turret Head Slitter™: A 10" arbor x 200 HP two (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 mounted in precision machine tool bearings installed in massive one-piece stress-relieved and precision ground solid steel block arbor bearing housings that weigh nearly a ton each. The rotatable Turret housing is supported on a 300,000# capacity anti-friction bearing, and the hydraulic cylinder positioned outboard arbor bearing housing is mounted on zero-maintenance anti-friction precision machine tool slides. Huge aluminum-bronze gibs contain the vertically adjustable upper arbor bearing boxes and allow for "zero" axial arbor movement. Huge upper arbor bearing boxes are positioned by motorized anti-backlash screw jacks equipped with electronic encoder digital position read-outs for quick and precise positioning. The unique Turret Head™ Slitter design allows re-tooling and head changes to be accomplished faster than with any other slitter design. The Servilamina Turret Head™ Slitter is designed so that a 3rd Slitter head can be easily added in the future.



Completely exposed and accessible arbors cuts re-tooling time and strain. No housings or bases obstruct the removal or installation of the slitter tooling. Head are exchanged in less than 2-minutes

Exit End Equipment: The Overarm Separator is solidly attached to the Exit Unit frame to eliminate Overarm frame deflection and resulting misalignment that can cause coil side-wall scuffing and coil oscillation. A Coil Splitting Shear is supported on the Exit Unit. A Hydraulic Feed Table acts in concert with an Overarm mounted deflector plate to form a threading “funnel” that guides slit strips directly from the Exit Pass Line Roll into the Recoiler gripper bar. The Recoiler drum is constructed from special hollow forged 2” thick segments heat-treated to Rc 58. A 3” diameter solid steel gripper bar grips the slit strips against a heat-treated serrated steel anvil. The Recoiler includes a massive single-unit parallel shaft helical gear reducer with a huge 14” diameter main shaft.



Exit end view. Notice the clear sight lines from the main operator station.

Side Adjust Overarm w/ Safety Tail Hold-Downs: Braner/Loopco mounts the Overarm Separator on the Exit Unit where the Overarm is supported from both sides making it more rigid (than a cantilevered Recoiler mounted Overarm), eliminating Overarm deflection that can cause scuffed side-wall coils. A “swing-out” arbor that supports a heat-treated “tooling sleeve” allows a re-tooled arbor to be exchanged in less than 2-minutes. The Overarm frame is designed to be adjusted sideways to com-



Rigid Overarm Separator with “swing-out” quick-change tooling arbor and tail hold-downs.



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pensate for minor tooling set-up errors. A Hydraulic Tail Hold-Down snubs the coil OD and secures all coil tails, making OD banding of heavy-gauge hi-strength strips safe.



Tight straight wall slit coils are quickly unloaded from the Recoiler by Coil Car with easy to use “wireless” operator controls.

Slit Coil Packaging: 1” wide to 24” wide x 10,000# slit coils are quickly and efficiently sorted and packaged for shipment by a Semi-Automatic Slit Coil Packaging Line. Individual slit coils are removed from the 4-Arm Exit Horn by a “Programmable Operatorless Downender” that automatically travels to a coil group, lifts one coil off the arm, returns to the Conveyor line, and deposits the coil onto the Conveyor. The Downender control can be programmed with up to 40-individual slit coil quantities and widths. Radial coil strapping is quickly accomplished by a Coiltech semi-automatic Strapping Machine equipped with an electronic load cell scale for individual coil weights.



Fully automatic “operatorless” Programmable Slit Coil Downender.

Heavy mill-duty construction, bullet-proof reliability, experience from building more than 560 Slitting Lines, and superb technical support made Servilamina Summit’s selection of a Braner/Loopco Slitting and Slit Coil Packaging Line a “no-brainer”.



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