

# NEWS RELEASE

## Lomanco Installs Precision Pre-Painted Emboss-Slitting Line

Jacksonville, AR – Lomanco, Inc, the largest manufacturer of commercial and residential attic and roof ventilators with production facilities in Arkansas and Arizona, has installed an Ultra-Precision High-Speed Single-Loop Turret Head™ Slitting-Embossing Line in its Jacksonville, AR headquarters facility. The new Slitting-Embossing line processes 60" wide surface-critical pre-painted steel and aluminum coils in gauges from .015" through .062" at line speeds to 1,000 FPM. The slitting line handles 16" and 20" ID x 72" OD master coils and produces finished coils with a 16" ID with coil ODs ranging to 72". Finished coils can be embossed or un-embossed in side-trimmed or slit coil.

**Compact High Pass Line:** The Lomanco Slitting-Embossing Line is a compact high pass line slitter designed specifically to process thin gauge surface-critical painted steel and aluminum coil. Compact high pass line slitters eliminate strip surface damage and offer quick coil threading, excellent coil tracking, and perfect coil side-wall build-up while occupying minimal floor space. The Uncoiler and Recoiler are installed at floor level while the equipment between is elevated to match the largest coil OD. This concept eliminates reverse-bending of the strip against the natural coil-set as the coil is processed. Because the strip is never reverse bent, strip threading is quick and coil-breaks generated from reverse strip bending is eliminated. All strip deflector rolls are positioned below the strip therefore deflector rolls never contact the strip surface. Strip surface quality condition is preserved with the elimination of deflector roll induced surface scuffing and scratching.



*Compact High Pass Line Single-Loop Turret Head™ Slitting Line*

**Entry Coil Loading:** Lomanco's thin-gauge pre-painted coils are stored "eye vertical" on pallets to protect the strip surface. Palletized coils are loaded onto a Coil Car-Tipper. The coil is upended 90-degrees, elevated and loaded onto the Uncoiler. Combining coil upending and coil loading functions into one machine reduces floor space requirements and minimizes handling and resulting coil damage.



*Entry Coil Car-Tipper upends and loads coils onto the Uncoiler*

**Embosser:** A 75 HP Embosser with stucco and gain pattern etched rolls is installed in the entry section of the line. The Embosser is power injected in and out of the line to allow embossed and un-embossed full width and slit coil to be produced. The Embosser is synchronized with the Turret Head™ Slitter for tight-line and loop slitting when injected into the line.



*Embosser is set-up to be injected in and out of the line*

**Ultra-Precision Turret Head™ Slitter:** The Turret Head™ Slitter is equipped with two (2) 8.000" quick-change ultra-precision slitter heads that allows Lomanco to consistently generate close-tolerance light-gauge surface-critical slit coil with minimal slit edge burr. The patented Turret Head™ design features unobstructed access to the slitter arbors, which makes tooling loading and unloading quick and easy. Re-tooled slitter heads are exchanged in less than 2-minutes. Quick tooling set-ups and quick head changes makes the Turret Head™ Slitter ideal for short run orders. The Slitter is powered by a DC motor that allows full loop slitting of all gauges from .015" through .062".



*Turret Head™ Slitter exchanges slitter heads in less than 2-minutes*

**Surface Inspection:** A non-marking roller table installed at the exit side of the Turret Head™ Slitter allows efficient physical and visual inspection of the strip surface after slitting. The Inspection Table also serves as a scrap side-trim deflector when



*Surface inspection is accomplished as the strip leaves the Slitter*

it is in the running position, and serves as a slitter tooling inspection platform when the Table is withdrawn from the line during head changes.

**Tensioning Surface-Critical Materials:** In order to generate tightly wound straight side-wall coils, the Lomanco Slitting Line is equipped with two tensioning devices: a Pneumatic Pad Tensioner, and a non-marking Roll Tensioner. The Pad Tensioner employs felt faced pads engaged by pneumatic cylinders to generate winding tension for non-critical surface materials. The Roll Tensioner employs special large diameter high-traction non-marking tension rolls to generate winding tension for pre-painted steel and aluminum coils. A high-capacity water cooled pneumatic brake provides remotely adjustable strip tension. The strip tensioning devices can be engaged independently or in tandem, depending upon the materials being processed.



*Tandem Pad and Non-Marking Tension Roll Strip Tensioners*

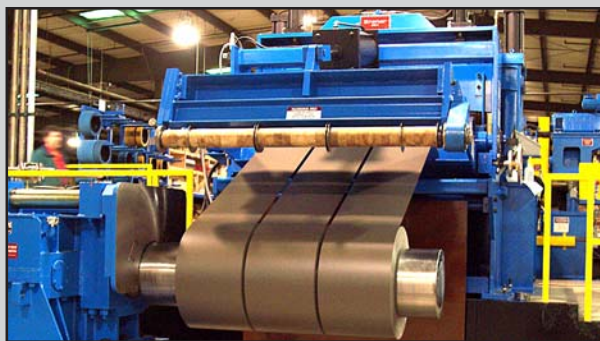
**Exit End:** A exit pass line/tach roll, Overarm Separator, Strip Threading Funnel, and a coil splitting Guillotine Shear are located at the exit end of the Slitting Line. The pass line/tach roll directs the strip to the Recoiler and senses the strip speed and linear footage. Because of the high pass line arrangement, the strip rides above the pass line roll and not under, eliminating the possibility of surface scuffing or marking. A guillotine Shear efficiently "splits" coil ODs. The Overarm Separator is attached to the Exit Unit and is supported from both ends making it extremely rigid to assure squareness with the Recoiler. The quick-change Overarm arbor swings-out for 2-minute tooling exchanges. A hydraulic cylinder positioned table working in concert with the Overarm mounted deflector forms a funnel to direct slit strips into the Recoiler drum.



*Hi-pass line Exit Unit provides excellent strip tracking*

**Recoiler:** A heavy-duty 200 HP Recoiler produces tight straight-sided coils on a 16" drum. The rewind drum is manufactured from 2" thick steel forgings heat-treated to Rc56 and is mounted onto the output shaft of a heavy-duty parallel shaft helical gear

reducer. A 3" diameter solid steel gripper bar secures the strips in the drum against a hardened serrated anvil. Finished coils are discharged by a hydraulic cylinder powered coil pushoff.



*Pre-painted thin-gauge embossed coil being rewound with tension tracking. The Overarm can be disengaged when producing wide thin gauge slit coils*



*Tight straight-wall slit coils unloaded by Coil Car*

**Slit Coil Packaging:** Finished coils are transferred by Coil Car from the Recoiler to the 4-Arm. An "Operatorless" Programmable Downender automatically retrieves coils from the 4-Arm and sends the coils to a Strapping Machine and Coil Stacking System.



*Operatorless Programmable Downender retrieves slit coils from the 4-Arm and sends the coils to a Strapping Machine and Coil Stacker.*

**Productivity and bullet-proof reliability,** experience from building 560+ Slitting Lines, and outstanding support made Lomanco's selection of a Braner/Loopco Turret Head™ Slitting Line a "no-brainer".



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