

# NEWS RELEASE

## Searing Industries Installs 60,000# x 1/2" Turret Head™ Slitting Line

Ranch Cucamonga, CA – Searing Industries, a premier USA manufacturer of mechanical, ornamental, and heavy wall welded structural steel tubing has installed a new high-performance 1/2" Single-Loop *Turret Head™* Slitting Line in its 300,000+ square foot manufacturing facility in Ranch Cucamonga, CA. The new 1/2" Slitting Line joins two additional Braner/Loopco Slitting lines at Searing Industries. The massive new Slitting Line, which will be dedicated primarily for producing high-quality heavy-gauge slit coil for Searing's mechanical and structural tube mills, has the ability to process 60,000# hot rolled black, pickled, cold rolled and galvanized carbon steel coils in gauges from .060" through 1/2" in tight-line and single-loop operating modes.



*Single-Loop Turret Head™ Slitting Line processes hot rolled and cold rolled carbon steel coils in gauges from .060" through 1/2" in tight-line and single-loop operating modes.*



*Four Arm Turnstiles stage and store 80" diameter coils at the entry and exit ends of Searing's 1/2" Slitting Line.*

**Compact High Pass Line:** Searing Industries' new 1/2" Slitting Line is an example of Braner/Loopco's high-performance compact high pass line arrangement that positions the Uncoiler and Recoiler at floor level with the processing section installed at an elevation to match the largest coil OD. The arrangement allows the strip to be processed through the line without forced reverse bending against the natural coil set. Compact high pass line benefits include quick and easy coil threading, elimination of reverse-bend coil-breaks, and elimination of strip surface damage from deflector roll scuffing. The arrangement allows the Uncoiler and Recoiler to be tucked in close to the Entry and Exit Units, conserving floor space,

speeding coil threading, and providing excellent coil tracking necessary to generate tight and straight side-wall slit coils.



*The Compact High Pass Line arrangement processes coils without bending the strip against the natural coil-set. The Uncoiler and Recoiler are installed tight against the entry and exit stations, reducing coil threading time and conserving floor space.*



60,000# x 80" OD master coils are handled by an expanding mandrel shifting base Uncoiler. Lightweight Uncoiler Fillers can be quickly installed for handling coil IDs from 28" through 32". An entry Pinch Roll & Coil Straightener removes heavy-gauge coil-set and threads the strip to the Crop Shear and Turret Head™ Slitter. Hydraulic cylinder positioned thru-hardened 52100 tool steel Side Guides direct the strip. A non-contact fiber-optic Edge Guide System maintains coil edge position while running. A Hydraulic Guillotine Shear crops coil ends ahead of the Slitter.

### **Turret Head Slitter™ w/ "Threadless" Tooling Lock**

**Nuts:** A 300 HP Turret Head™ Slitter with two (2) quick-change 12" slitter heads produces precise 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 machined solid steel arbor housings. The rotatable Turret is mounted on a precision anti-friction ring bearing, which assures precise arbor alignment and makes slitter head exchange quick and effortless. The outboard arbor housing is supported on precision anti-friction machine tool slides and is engaged and disengaged by hydraulic cylinder. Large precision machined aluminum-bronze guide blocks secure the adjustable upper arbor bearing boxes in the end housings. Axial

arbor movement is “zero”. The upper arbor bearing boxes are vertically adjusted by motorized anti-backlash screw jacks fitted with electronic encoder digital position read-outs for quick and precise vertical knife clearance adjustment. Compared with slide-out injector head slitters, Turret Head™ Slitters can be re-tooled in less time and can exchange heads quicker. Because the Turret Head™ Slitter’s multiple heads are a non-removable and an integral part of the one-piece turret, Turret Head™ Slitters are more rigid, more precise, and more reliable than “slide-out” injector head slitters. Searing Industries’ Turret Head™ Slitter is equipped with Braner/Loopco’s “threadless” hydraulic tooling lock nut that secures slitter tooling onto the arbors without having to “spin” threaded lock nuts on arbor threads. The elimination of arbor and lock nut threads allows re-tooling to be accomplished in less time, and damaged and worn thread repair time and costs are completely eliminated.



*Turret Head™ Slitters are rugged, precise, and offer bullet-proof reliability. Head change time is less than two-minutes. Searing’s “threadless” tooling lock nuts allow re-tooling to be accomplished in less time, and time lost to arbor/nut thread repair is completely eliminated.*

**Scrap Disposal:** Searing Industries’ Slitting Line employs a pair of massive 1/2” Hydraulic Scrap Winders to handle and dispose of side trim. The Winders are specifically designed to accomplish side trim threading and scrap bundle disposal easily and quickly. The Winders offer bullet-proof reliability and virtually zero maintenance and set-up costs and zero tooling cost.



*Special Heavy-Gauge Scrap Winders designed for quick and easy threading and scrap bundle disposal offer bullet-proof reliability and virtually no down-time related to repairs, maintenance, and tooling costs.*



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**Exit End:** Searing Industries’ Slitting Line is equipped with a Pad Tensioner that generates strip tension necessary to generate tight straight-wall slit coils. Tension is adjustable and regulated from the main operator console. Special quick-exchange tension pads can be swapped in 60-seconds when the friction surface is worn. The Overarm Separator is rigidly attached from both in-board and outboard sides to the Exit Unit base frame, which eliminates Overarm frame deflection and misalignment that can result in coil side-wall scuffing and oscillation. Hydraulic cylinder engaged polyurethane Coil Tail Hold-Down pads firmly capture the heavy gauge coil tails to prevent coil tail clock-springing while installing OD coil banding.



*The Exit End equipment generates strip tension and rigidly supports the Overarm Separator. A Hydraulic Coil Tail Hold-Down assembly secures heavy-gauge coil tails for safe coil OD banding.*



*Searing’s 60,000# Recoiler is equipped with a massive 24” diameter rewind drum with 2” thick heat-treated expanding drum segments and a 3” diameter hydraulic gripper bar. The Recoiler gear box has a 14” diameter main shaft and two gear ratios for slitting heavy and thinner gauge coil.*



*Quality, Performance, Bullet-Proof Reliability, know-how from building 600-Slitting Lines, plus outstanding technical support made Searing Industries’ choice of its third Braner/Loopco Slitting Line a “no-brainer”.*



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