

NEWS RELEASE

Steel Warehouse Installs Slitting Line with Shape Correction Leveler

Oak Creek, WI – Steel Warehouse, a large flat rolled steel distributor and coil processor has installed a new high-production Braner/Loopco single-loop “*Turret Head™*” Slitting Line equipped with a patented shape correction “*Cluster Leveler™*” in its Oak Creek, WI plant situated between Chicago and Milwaukee. The new slitting line joins a 1/4” x 72” Braner/Loopco Hydraulic Cassette Leveler/Servo Roll Feed Cut-to-Length Line in addition to other lighter gauge coil processing equipment in Steel Warehouse’s Oak Creek facility.



60,000# x 72” x .250”/.015” Slitting Line

The slitting line is capable of slitting and corrective leveling 60,000# x 72” bare and galvanized cold rolled coils as well as hot rolled coil in gauges from 1/4” down to .015” at line speeds to 1,000 FPM.

Rugged Mill-Duty Design:

All components that comprise the Braner/Loopco slitting line are designed and built with a generous service factor that assumes the equipment would be operated in a multi-shift high-production operation. Maintenance costs and down time for parts replacement is minimized by employing heavy welded steel plate construction and heavy-duty components supplied by top rated and widely distributed industrial component manufacturers. All hydraulic cylinders are 3,000 PSI rated commercial tie-rod design, all gear reducers are AGMA rated commercial helical gear boxes, and the absence of high-maintenance chains and sprockets is noticeable. The new Steel Warehouse slitting line joins more than 500 Braner/Loopco slitting lines still in operation around the world.



250 HP Recoiler, Adjustable Overarm, & Cluster Leveler

Shorter-Is-Better:

The Steel Warehouse slitting line employs the “*shorter-is-better*” concept that consumes less floor space (*than typical slitting lines*), allows for quick and easy coil threading, and improves personnel safety and productivity by placing all line components, from entry end to exit end, clearly within the operator’s view. The short line makes delicate cameras and hard to view TV screens unnecessary. Although the Steel Warehouse slitting line includes a Cluster Leveler and an extra long looping pit, the slitting line is less than 50’ from Uncoiler to Recoiler. The slitting line also employs the modern “*hi-pass line*” equipment arrangement wherein the strip processing equipment is elevated above the coil OD to eliminate “back-bending” the strip as it is processed. Hi-pass line eliminates equipment-induced coil-breaks, eliminates top-running pass line rolls that can damage the strip surface, and produces straighter sidewall coils because the strip is never reverse bent.

Turret Head Slitter™ :

A 9” arbor x 150 HP two (2) head quick-change *Turret Head™* Slitter produces precise tolerance slit widths throughout the entire gauge range. The arbors rotate in precision machine tool bearings mounted in one-piece stress-relieved and precision ground solid steel block arbor bearing housings weighing 1,900# each. The rotatable Turret housing is supported on a 300,000# capacity anti-friction bearing, while the hydraulic cylinder positioned outboard arbor bearing housing is mounted upon precision anti-friction machine tool

slides. Four 1.250" thick x 2.750" wide aluminum-bronze blocks contain the vertically adjustable upper arbor bearing boxes and allow zero axial arbor movement. The upper arbor bearing boxes are positioned by motorized anti-backlash screw jacks equipped with electronic encoder digital position readouts.



Completely exposed and accessible arbors reduces set-up time

The design of the Turret Head Slitter allows slitter set-ups to be accomplished faster than with any other slitter design. The free arbors are completely exposed and accessible, making the removal and installation of knives and spacers easier and less tiring for the set-up person.

Cluster Leveler™ :

The Steel Warehouse slitting line is equipped with the ability to correct wavy-edge, cross-bow, and center buckle strip shape defects throughout the entire .015" to .250" gauge range. The Cluster Leveler is equipped with work rolls ranging in size from 1.500" to 3.000" diameters, supported by independently adjustable back-up flights. Set-up of the Cluster Leveler is automatically accomplished by a PLC based upon gauge and yield strength inputs from the operator. On-the-fly corrections can be accomplished through the PLC touch-screen controller or via joy stick manual controls. A memory is included to return the Cluster Leveler to a previous set-up by entering a job number.

Quick-Change:

The slitting line is designed with the ability to change from one job to the next in a matter of a few minutes.



View of upper work rolls and back-up flights



Touch-screen Cluster Leveler control monitor

The Turret Head Slitter can change heads in one-minute. Spare tooling arbors are supplied with the Tension Stand and Overarm Separator to allow off-line set ups to be accomplished while the line is running. Re-tooled and locked-up arbors can be exchanged in a matter of minutes. The Tension Stand is supplied with removable pads that can be re-faced off-line and exchanged in one-minute.



Swing-out Overarm arbor exchanges tooling in minutes.



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