



TS MANUFACTURING

Optimized Edgers

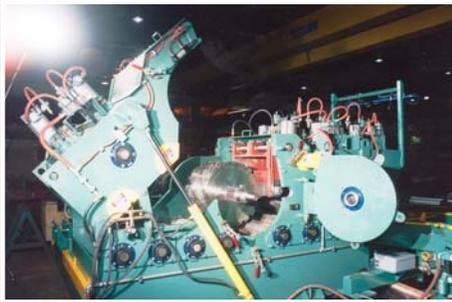


Rugged, dependable equipment for the Sawmill Industry.



40⁺ yrs
TRUSTED EXPERIENCE

Gang Edger Systems Straight Sawing



TS Gang Edgers are available in a variety of applications. Since installing the first Thin Kerf Hardwood Gang Edger in Eastern Canada, TS equipment options have expanded.

For two sided cants, the simple yet accurate TS Pin Fence Infeed can easily feed at rates of 15 cants/min. or with its high speed option, at rates of 20-25 cants/min. This infeed allows optimizers to provide accurate taper and positioning solutions to the Gang Edger.

For four sided cants, TS has a variety of fenced infeeds available. These systems can be matched with traditional, thin kerf, pocket or doghouse gang edgers.

The Doghouse Gang Edger is available with up to 3 saw clusters and can include blocking saws. Using the two clusters and grader input, the edger can 'bracket the heart' of a cant, providing grade boards and a center cant.

Combination edger infeeds are available, feeding either single or double-sided, at piece rates exceeding 15-20 pieces per minute.

Edger Box Options Available

- Clamshell • Combination • Bottom Arbor • Top Arbor

Gang Edger Systems Curve Sawing



The TS Versa-Saw Gang Edger is a machine unique in the industry. This Lineal Optimized Curve and Straight Sawing Combination Gang / Board Edger offers sawmills the ability to produce optimized boards, cants and blocks from one machine.

With a 48" wide opening, this 8" thick gang edger can handle boards and cants from 74" long and longer. Processing two sided cants, four sided cants, and flitches, it literally handles every scenario the mill can throw at it. It curve saws 6" over 16' with its Thin Kerf guided saws, and with its two moving clusters and 4 'blocking/board' saws, it is capable of multiple solutions depending upon grade possibilities within the cant.

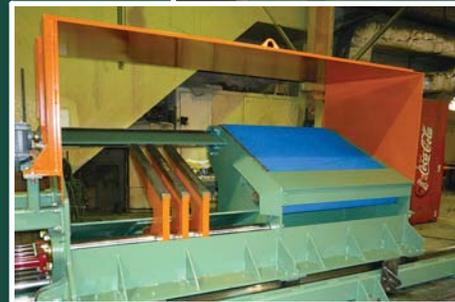
At the unscrambler feed system, the operator is able to make a grade decision about each piece, determining if it will be sawn with the 'board/blocking' saws or the gang clusters. In addition, the operator is able to 'bracket the heart' with both clusters, producing either curve sawn or straight sawn pieces and blocking.

The entire machine is manufactured modularly with stress relieved press roll and arbor modules. The arbor rotates on two oversized linear rails complete with a positive pressure dust guard to protect the precision bearings. The front press roll module has a clamshell opening, allowing the operator access to quick saw changes.

Optimized Board Edger Systems



Edgers & Tailers



TS Manufacturing has been building optimized board edgers since 1991. These systems have been customized to exactly handle the customer's material and piece count requirements.

For short boards, our short board infeed system allows piece counts of 27 boards per minute and piece lengths as low as 30" in length. This system can be coupled with any of our tailing options. The system is capable of handling pieces from 5/8" thick to 4" thick at that length.

For more traditional length edger systems, we offer a wider variety of solutions, tailored to suit your needs. Starting with as low as 4' board lengths, our edgers are available from 10 pieces per minute to greater than 40 pieces per minute feed rates.

For grade systems, we offer grade edit in both a lineal and transverse system. In the transverse, the grade edit is available with overhead lasers and mechanical skewing, or with 'visual grade edit' and virtual laser lights. Both of these systems offer the ability to have the board scanned prior to grade editing.

On a Lineal System, we offer 'on the belt' grade editing systems with overhead lasers displaying the solution to the operator. In all grade edit systems, the operator is able to widen, narrow, skew and translate the solutions, as well as add or remove saws from the solution. In some of our grade edit systems, it is possible to keep a record of the board image, the optimizer solution and the edger operator determined solution for training and review purposes.

Our Lineal Board Edgers feature a special 'top mount' arbor design that keeps the bearing system from being contaminated with debris, allowing for longer bearing life. All of our edgers are available in either Collared Saws, Guided Saws or 'Puck Guided' saw designs.

The TS Collared Saw system uses revolutionary 'Shifting Forks' to provide bearingless collar designs. This provides high speed, precision saw positioning, while eliminating the need for costly guide grinding and babbitt maintenance. Ask our representative about our 'one bolt saw change' system, featured in this design!

We offer Paddle Pickers, Flying V, belt and shifting roll tailer designs. In transverse systems, we can provide you with a wide selection of tailers. The 'Flying V' tailer offers low cost, low maintenance and extremely high picking accuracy. The TS Paddle Pickers offer removable chipper knives and high speed positioning to meet the demands of any lineal or transverse system.

Specs at a Glance (Lineal and transverse)

Length Range: 30" - 24'

Thickness Range: 5/8" - 8"

Feed Speeds: 300 - 1250 fpm

Piece Rates: Up to 48 brds/min.

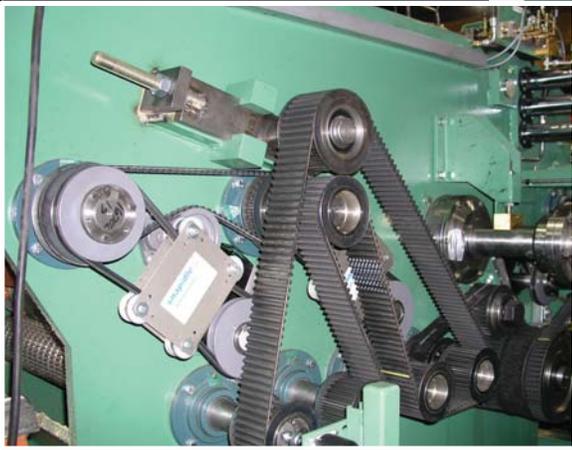


TS Optimized Edgers

All Guts no Glory

All Guts, no Glory. That seems to be the belief when looking at edgers in an Optimized Edger project these days. With discussions focusing on 3D scanning & optimization technology or scan densities and algorithms, the stalwart edger is easily overlooked as a relatively simple component in a high technology project. However, it is easy to forget that a precision scan requires a precision machine to achieve the optimum result. At TS Manufacturing, building reliable, precision edgers has been our business for over 40 years.

TS Manufacturing Edgers all feature a heavy-duty, fully welded, sawbox. Our sawbox is precision cut on a cnc cutting table from thick steel. These precision cut sidewalls are then completely welded together to form the sawbox and edger frame. At this point we fully stress relieve the weldment prior to machining. This ensures that the precision factory setup remains consistent for the life of the edger. After stress relieving, the entire finish welded box is precision line bored in a single setup. This important step ensures the press rolls, press roll pivot points, bed rolls and arbor are all on parallel axis. This rigorous process is critical to achieving the lasting precision alignment required by today's optimization systems.



Drive Systems

Depending upon application, TS Edgers are available with either Polychain (belt) or Roller Chain drives.

Both drive systems come completely guarded with tensioning systems. Roller Chain systems are available on edgers with feed speeds of 500 fpm or less.

Polychain drive systems are available in feed speeds up to 1250 fpm. The polychain system requires no chain lubrication, and offers higher speeds, lower noise, less backlash and lower maintenance over time, than the Roller Chain system.



See our
Optimized Edgers at:
www.tsman.com



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