Coe Newnes McGehee

Coe Newnes McGehee (CNM) offers a wide range of primary breakdown solutions and full integration of machinery with controls and optimization. System configurations include Sharp chain (SLI), double length infeed (DLI), the SL2500 for processing small logs to lumber in a single pass, and the new SL 000, designed with unique log positioning and transport technology.

The SL 000 includes log optimization features common to all CNM primary breakdown systems. Using a new real-time log rotation capability, the log positioning infeed rotates the log to the desired orientation and aligns the solution to the centreline of the machine. Motion control positioners accurately skew the log prior to impalement on the Sharp chain. An innovative log transport mechanism keeps it securely placed for the duration of the breakdown process.

The continuous Sharp chain provides greater stability and more reliable transport through the cutting tools. There are no transitions from one chain to another, which can introduce log displacement and positioning errors. The system has the option to do a secondary scan of the positioned log and make final adjustments to the position of the canter heads and bandsaws. The SL 000 is designed to handle logs from 4” to 0” in diameter and operate at speeds up to 600 fpm. These advances in log positioning and transport enable the SL 000 to achieve a higher percentage of the log’s potential value. www.coenm.com Reader Service Card #132

Comact Inc

Comact presents the new DDM-SBP (side board and profiler). Sawmills can now get DDM technology producing side boards in the primary part of the breakdown and profiling the cant. This medium log processor is a single true shape scanner machine—the whole process is controlled by a single scanner. After scanning the log, the system executes the opto-rotation and the log is then centred into a compact step chain infeed. The first breakdown equipment is the canter and circular twin or quad configuration. After the side board is removed, the centre cant continues into the DDM type curve sawing and profiling equipment. The entire process is fully optimized, fast, and features optimized profiling and thin kerf sawing. The machine keeps entire control of the log all the way through the process. Comact also offers rotation tracking with the new OLICS

The rotation tracking of the infeed system assures ultra precision log rotation, confirmation and continuous correction of the log. The revolutionary optimized length technology takes over while the log is in the turner. A true-shape confirmation scanner, located immediately downstream of the turning rolls, continuously monitors the outside profile of the log to confirm its position and makes any required correction. The log is perfectly fed to the infeed, where true
shape scanners re-scan the log and optimize it for maximum recovery over a full rage of taper combinations. www.comact.com Reader Service Card #133

**HewSaw**

HewSaw offers the new SL250 Duo. This state-of-the-art sawmill line is said to provide the greatest efficiency—high recovery, high production, and one operator with high uptime. The log is transported by the scanning conveyor through the scanner. The scanning conveyor then feeds the log to the optimized log positioner, where the best position of the log is calculated. The log positioner feeds the logs to the chippercanter machine centre and positions the logs in the X and Y axis and rotates them for the best recovery.

In the chipper canter, the four faces of the log are chipped with spiral chipper heads. Based on the log scanning results and the value of a curve set in the sawing pattern, curve sawing automatically controls the vertical position of the log.

Immediately after chipping, the cant is fed into vertical saws for sideboard removal, as the optimized solution dictates, for best recovery. Sideboard solutions can be asymmetrical. Edging tools remove the wane and make finished edged high quality products. Boards are separated and synchronized on to the side shift conveyor.

The cant curvature and the profile are measured with the profile scanning. Based on these measurement results, the computer optimizes the edging in the next breakdown machine. The top and bottom boards are edged, if selected, and solutions can provide asymmetrical patterns. The cant is curve-sawn for highest recovery.

For knife maintenance, the machine opens laterally along linear bearing rails, creating an ergonomic working space between the vertical and horizontal chipper heads. www.hewsaw.com Reader Service Card #134

**Inotech**

Inotech’s Quad-24 was designed to increase profitablity by transforming small logs into cants instead of chips. It accepts logs as short as 4’ and as small as 1.5” in diameter. All logs of 4” and up can be processed through the Quad-24 instead of sending them to the chipper, creating additional profits with the same volume of timber.

The four-sided machine is simple and compact, and can be installed in small areas. It processes stems in the same manner as a normal log and accepts a log as small as 1.5” in diameter and produces cants as small as 1.6” in diameter. The Quad-24 is available with an intergrated resaw module, which can contain up to three saws. The Quad- 24 can also integrate profilers. And the saw’s mobility is ensured by a unique lubrication-free saw guide. It’s available with a scanner-optimizer, as well as profiling modules, ideal for mills producing their own brackets. www.inotechfabrication.com Reader Service Card #135
USNR

USNR’s knuckle turner infeed combines the functions of a log turner and a double length infeed into a single length machine capable of rotating, slewing and skewing logs all in one process. By taking advantage of knuckle style turning rolls, USNR has built the log turner into the infeed.

This puts more functionality into a single machine and eliminates the need for a separate log turner further upstream. The knuckle turner infeed provides outstanding throughput, feed speeds up to 600 fpm, and when combined with precision log rotation (PLR), the system achieves maximum recovery.

The PLR is USNR’s real-time rotation correction system. This combination is well-suited for any high volume operation concerned with getting the maximum value from its resources.

USNR’s knuckle turner infeed offers the advanced functionality of slew and skew positioning, providing mills with unprecedented flexibility in placing higher value board solutions into top and side boards, as well as keeping more logs out of the chipper.

Powered side rolls maintain constant contact to control logs, with spiked overhead press rolls thumping the log on to the Sharp chain. The knuckle turner infeed accommodates logs up to a maximum diameter of 18”.

With its broad product line, USNR can design a complete, fully integrated system perfectly suited to a mill’s production requirements.

USNR can provide a small log line with leading products like its vertical shape saw (VSS), advanced MillWide optimizers and the precision log rotation (PLR) system. www.usnr.com

Reader Service Card #136

Carriage Systems

Cleereman Sales, Inc

Cleereman Sales offers a variety of high quality sawmill equipment, but its most popular model is the LP 42 sawmill carriage. The linear positioning carriage features a 42” opening, with 2.5” bore and regenerative hydraulic cylinders. It uses a 0 hp, gpm variable volume power unit.

The carriage frame is constructed of 8” x 1/2” wall tube in different lengths to accommodate two, three and four headblocks. The headblocks have a 1/4” flange construction with 1/4” x 4” alloy steel reversible wear plates.

The LP 42 features 14” alloy steel, heat-treated wheels. The knees run on synthetic wearstrips and are lubricated by an automatic oiling system. This machine features 1” thick heat-treated T1 tong dogs. In addition to the standard 5-5/8” extended and 5/8” retracted dog positions, this model can be set up in a variety of ways to provide different intermediate positions or cinch back features.

The LP 42 can also be custom fitted with Brownsville turners, can pushers and chain turners, as well as any required ratchet cable tightener, cable equalizers or shotgun mounting brackets. www.cleereman.com Reader Service Card #137
Cooper Machine
Cooper Machine provides an option for mills that are interested in the benefits of a fully optimized end-dogging system for short logs ‘to 5’ long, complete with -D laser scanning technology that even a mid-sized hardwood or softwood operator can afford. The -D laser scanning system scans the log with opposing rows of Dynavision heads that provide dual-sided scanning, which gives an optimal view of the log. This enables the operator to position the log at the best orientation to provide the optimum yield. A long log optimized end-dogging system, which accommodates logs 8’ to 16’, is also available.

End-dogging small log mills have been a Cooper Machine specialty for years. Using a standard machine for a starting point, the company works with the customer to design and build a fully optimized model, which includes additions such as an off-line scan zone with turning rolls and charger and dog mechanisms capable of infinite rotation. Cooper circle saw arrangements and extra strengthening in the frame and drive allow for high speed automated operations.

Cooper Machine believes that the optimized end-dog technology will prove to be an excellent alternative to the larger, more expensive and complex systems traditionally offered. The company also manufactures the “original” overhead scragg and the Yield Champ scragg. www.coopermachine.com. Reader Service Card #138

Corley Manufacturing Company
Corley is a single source manufacturer of complete carriage/ headrig systems. The company manufactures headrig products including Corley carriages, bandmills, slabbers and log turners, Lewis Controls carriage optimizers and Tyrone Berry hydraulic and electric carriage drives.

Corley’s unique balanced load straight line dogs have the bite to hold when sawing at today’s speed. The straight line dogs give mills the benefits of fast and positive dogging along with quick and simple maintenance. This proven design places the dogging assembly in the centre on the knee for good balance and protection with no pivot points and other linkage that will require additional maintenance.

The company’s Lewis Controls Shape Scan D Carriage Optimizer is field proven with over 125 installed systems. This latest generation of carriage optimizer has been designed from the ground up to be the most productive system in the market, says the company.

Based on a single Pentium PC processor and Windows software to insure performance and reliability, the ReadyScan Carriage Optimizer is delivering maximum recovery, maximum grade, maximum production and optimum results in mills around the world daily. www.corleymfg.com Reader Service Card #139

T S Manufacturing
T S manufactures a complete line of sawmill, planing mill and reman equipment. This includes carriages, edgers, trimmers, sorters, bandmills, resaws, stackers, log handling, and waste handling equipment. In the reman and planing mill facilities, decks, hoists, planer infeeds, rip saw infeeds, tray sorters and stacker lines are available.

T S has a large manufacturing facility and a very experienced engineering department. Complete systems are available. The company recently built a totally optimized sawmill in Australia. Currently, they have almost completed construction of a hardwood reman facility in Ontario, where they grade, trim, sort and stack green lumber, then after drying scan, upgrade, plane and rip the lumber. www.tsman.com Reader Service Card #140
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