SawTECH 2011
NEW PRODUCTS FROM
OPTIMIL MACHINERY
INC.

Four New Products to Discuss

• Optimil /2RS Lineal Edger
• Optimil Continuous Rotation Log Turner
• Small Log Processing Line
Edger Magazine Feed Infeed

Rotary Cam Flitch Loader
Features of the Lineal Infeed

• Lineal scanning on a belt completely eliminates edge crush & “hand off” errors found in conventional transverse positioning infeeds
• Board gripping capacity of the belt is higher than that of a feed chain
• Continuous scan belt up to the saws maximizes board feeding accuracy & recovery
• All chain beds and their associated lubrication & maintenance are eliminated
**Edger Piece Rates at 366 MPM or 1200 FPM**

*Based on Average Length*

- 1.8/2.4 meters or 6/8 ft lengths 57 ppm
- 3.65 meters or 12 ft 48 ppm
- 4.87 meters or 16 ft 41 ppm
- 5.48 meters or 18 ft 38 ppm

CLD Electric Actuators Used for Shifting Saws

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**Set Works Demo**

![Set Works Demo Image]
Skewing of Saws

Saw Change Position
**Non-sequencing Pressroll Option**

- Urethane segments
- Solid Pressroll frame, no split caps & bolts
- Serviceable Bearing insert

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**Urethane Pressroll Application**

- A pre-positioning cylinder sets the roll ½” below the board target thickness.
- The flexible urethane roll conforms to the shape of the board allowing the press-roll frame to remain stationary.
- No PLC sequencing required.
- Hold down the entire length of the board.
Benefits

• High Piece Count
• Easy Change of Collared Saws
• No Saw Guides or Babbitt (cost savings)
• No Linear Positioner’s Unless Specified for Lower Piece Count
• No Hydraulic Power Unit (cost savings)
• Only Lube Required is for Shift Shafts

Optimil Rotary Log Turner
Rotary Log Turner

- Continuous Rotation—Does NOT Have a Home Position
- Next Turn Starts Where the Last Turn Ended
- Electric Drive for Rotation using a Low Inertia Motor with a AB 750 VFD for .35 Accel and Decel Rates
- Hydraulic Rotary Coupling for Feed Roll Power and Open and Close of Rolls
- Proven at 182 MPM or 600 FPM

Small Log Primary Breakdown

- Auto Rotation Conveyor
- Rotary Log Turner
- Positioning Infeed
- Sharp Chain Two Sided Canter
- Side Board Skewing Profiler (Multiple Board)
- Circular Saw Box for Side Boards
- Top and Bottom Profiler
- Shifting Vertical Gangs with Multiple Products
Process Information

- Feed Speed 91.4 to 182 MPM or 300-600 FPM
- Diameters 100mm to 406mm or 4” to 16”
- Average Speed 143 MPM or 470 FPM on 185 mm or 7.3” Average Diameter Logs
- Avg. 18 Pieces / Min. on 3.96 meter or 13 feet Log Lengths and 185mm or 7.3” Diameter Logs
- Product Stack Height at Gang is 381mm or 15” tall
- Gang Can Cut on Either Single Arbor or as a Double Arbor

Rotary Log Turner
Positioning Infeed for Skewing the Log In-conjunction with Log Turner

Sharp Chain Feed Shown with Two Sided Canter
Side Board Profiler

Horizontal Saw Box with Balanced Cut for Top and Bottom Saws
Horizontal Circular Quad Arbor Saw Box with Four Saw Lines

Side Board Profiler with Slew for Edging Boards
Visit us at Southern Cross Engineering’s Both for More Information

Thank You For Your Time