EXPO 2011
NEW ZEALAND

NEW PRODUCTS FROM
OPTIMIL MACHINERY
INC.

Two New Products

• Optimil /2RS Lineal Edger with Two Different Design Feed System
• Two Different Approaches for Small Log Processing Lines One Using New Rotary Turner
Rotary Cam Flitch Loader

Optimil / 2RS Lineal Edger
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 chain
- Continuous scan belt up to the saws eliminates hand off errors between feed modules, which 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 in Higher Piece Count Edger

- 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
Set Works Demo

Skewing of Saws
Saw Change Position

• 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.

Urethane Press roll Application
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

Roll Bed Feed Lineral Edger with Reman Head
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
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 Opening and Closing of Rolls
• Proven at 182 MPM or 600 FPM

Positioning Infeed for Skewing the Log In-conjunction with Log Turner
Sharp Chain Feed Shown with Two Sided Canter

Side Board Profiler
Side Board Profiler with Slew for Edging Boards

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

Cant & Board Separator
Top & Bottom Profiler with Multiple Pockets & Vertical Shifting Multiple Product Gang

Left Arbor in the Cut
Right Arbor in the Cut

Saw Change Position
Double Arbor Sawing Mode

In Line Small Log Four Sided Canter
Visit us at our Booth in the Canadian Pavilion or Southern Cross Engineering’s Booth for More Information
Thank You For Your Time