WOOD INNOVATIONS 2008

SAWING TECHNOLOGIES

Söderhamn Eriksson

COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAWMILLS
A presentation of:

New mill & plant design
Log breakdown technologies
Innovative mill optimization tools

Lars Lindvall
Söderhamn Eriksson AB, Sweden
September 2008
New mill & plant design
The greenmill
Two directions

1 A high and efficient production of commodity products such as construction timber, etc. Conventional saw patterns normally.

2 Production of niche products for reman, components, special dimensions, etc. Conventional and special patterns. Quarter sawn, sawing through, etc.

- Plus – combinations of the two!
<table>
<thead>
<tr>
<th>Same focus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity</td>
</tr>
<tr>
<td>Recovery</td>
</tr>
<tr>
<td>Product quality</td>
</tr>
<tr>
<td>Bottom line</td>
</tr>
</tbody>
</table>
Optimized, curve sawing profiling line
Optimized curve sawing bandsaw line with optimized edgers
Optimized curve sawing bandsaw line with optimized edger and resaw
Log breakdown technologies
Important features
Instant pattern changes
Ability to produce all dimensions
Accuracy and surface finish
Speed
Low service requirements
Long tool change intervals
High speed bandsaws

LOGMASTER HPS

Wheel diameter 1800 mm
Saw speed max. 100 m/sec.
Feed speed max. 180 m/min.
Applications Logs, cants, squares
High speed bandsaws
Bandsaw feedworks

Curve sawing cants

Curve sawing cants without opened faces up to 1 m
CAR feedworks

Cant Alignment Radius independent (patented)
High speed circular saws

Up to 6 shifting saws
Feed speed max. 180 m/min.
Applications  Logs, cants, squares
COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAWMILLS
Horizontal circular saws

Up to 3 saw cuts
Feed speed max. 100 m/min.
Applications Squares
Horizontal bandsaw

Feed speed max. 125 m/min.
Applications Squares
Guided circular saws

Feed speed max. 180 m/min.
Applications Log- and cant breakdown
Frame saws

Feed speed max. 25 m/min.
Applications Log- and cant breakdown
EDGING

PROFILING

Söderhamn
Eriksson

COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAWMILLS
COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAWMILLS

Optimized profiling
Shifting tools

Static sawline tools
Optimized edging
+ 30-35 % Troughput
at the same speed
COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAW MILLS
PROFILER UNIT 2008

Söderhamn Eriksson

COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAWMILLS
COMPREHENSIVE SOLUTIONS FOR WORLD CLASS SAWMILLS
Innovative optimization tools
True Shape / 3 D scanners
Combination 3 D and X-ray scanners
True Shape Optimizer
Rotary log turner
Vertical roller log turner
Double knuckle type log turner
Optimized infeeds

Single length:
Aligning
Side shifting

Extended length:
Aligning
Re-scanning
Side shifting
Optimized infeeds

Double length:

Feeding
Scanning
Shifting
Skewing
Slewing
Optimized cant curve sawing

- Curve sawing, moving cant
- Curve sawing, moving machine
Optimized cant curve sawing
Curve sawing, moving cant
Optimized cant curve sawing
Curve sawing, moving machine
Board edger vision system