High Efficiency, High Speed, Whole Tree Harvester

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Energy Performance Systems, Inc. and WrightLink Consulting

Energy Performance Systems, Inc. designed and built a harvesting machine to increase whole tree harvesting efficiency; that continuously cuts, handles and loads trees without stopping at a rate of 6 miles per hour.

Harvester Features:
- World’s fastest Whole Tree Harvester™
- Cuts more than 500 tons per hour
- 900 HP - has twin diesel engines
- Four rubber Cat tracks, 200 HP each
- 16 ft wide, 52 ft long, 28 foot ht
- Weight 135,000 lbs
- Disassembles into 5 sections
- Cuts within 2” of Ground
- Cuts and handles up to 30” trees

From Fabrication to Harvesting on Tree Site:

<table>
<thead>
<tr>
<th>Tree Size (inches)</th>
<th>Harvest Speed (ft/s)</th>
<th>Tree Spacing (ft)</th>
<th>Cut Rate (trees/sec)</th>
<th>Dry w/ Tree (lbs)</th>
<th>lbs/s</th>
<th>Oven Dry Tons Per Hour</th>
<th>Oven Dry Tons Per Year</th>
<th>Annual Rev $/yr</th>
<th>Harvesting Cost $/yr</th>
<th>Harvesting Cost per ODT</th>
<th>Net Before Taxes (NST)</th>
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</thead>
<tbody>
<tr>
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<td>4</td>
<td>10</td>
<td>0.4</td>
<td>250</td>
<td>100</td>
<td>180</td>
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<td>$539,136</td>
<td>$759,300</td>
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<td>-$40,164</td>
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</table>

Moving Tracks and PWR Plant with HydroPac
Moving Front Tracks into Place
Drive to Tree Site
Cutting Head
Harvesting 1.6 trees per second