De-Charring Machine for wooden barrels

The Re-Juevination of Whisky Casks has proven to be a very cost effective method of extending the maturation life of used barrels.

The process involves removal of the old char (de-charring) to expose fresh wood and re-firing (re-charring) the newly exposed wood to re-carbonise its surface. The spirit is now able to access a much higher level of extractives during maturation, than was previously available.

There are several methods of de-charring, but one which has been shown to be very successful is wire brushing the inside of the cask at high speed. Schoolhill use a patented profiling head for this operation, and by maintaining a constant pressure on the barrel surface, the brush is able to closely follow the shape of the cask. This provides a very uniform finish, throughout the whole surface of the cask.
This machine will process all casks in the range from 190Ltr Bourbon Barrels up to large Sherry Butts and Distillery Puncheons.

**BENEFITS**

- Totally Enclosed Process
- No Manual Handling
- Very Uniform Finish
- Opens Up Wood Grain
- Automatic Cycle
- Option For 1 End Removal

Schoolhill Engineering Co Ltd. Greenbank Place, Tullos, Aberdeen, Scotland, AB12 3RJ
phone +44 (0)1224 871380 fax +44 (0)1224 897135
DESCRIPTION
Barrels are loaded into the enclosure, and clamped onto a roller drive system, which rotates the cask vertically during processing. Based on the successful design of the original machine developed in the 1980’s, the MkII model recently introduced provides 30% higher production. This features a heavier, more powerful brush slide arrangement, and the addition of hydraulics to the previous pneumatic control system. Brushing force, vertical feed, and barrel rotation speed are all variable to allow you to achieve the optimum performance for your operations. The machine is totally enclosed and supplied complete with its own dust extraction system.

Controls are safety interlocked, and machine complies with EEC Machinery Regulations for guarding and safe operation.

The barrel on the left shows the finish which can be achieved on dry barrels with a cycle time of around 2 to 3 minutes, although in most cases it is not necessary for Whisky Barrels to be cleaned back to new wood.

Shaving for Wine Barrels
It is also possible to set this machine up to skive the insides of wine barrels. This is done using Carbide tipped cutting head instead of the wire brush.
See separate data sheet SH1481-S.
The Schoolhill De-charring Machine was developed in conjunction with Speyside Cooperage and joint Patents are held by the companies.

<table>
<thead>
<tr>
<th>Expected Production;</th>
<th>80 - 150 barrels per day (depending on size and machine set up)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Dimensions;</td>
<td>2.3m W; 1.5m D; 5.5m H</td>
</tr>
<tr>
<td>Shipping Weight;</td>
<td>3400 Kgs (net)</td>
</tr>
<tr>
<td>Hydraulic Power Unit;</td>
<td>4.0 Kw</td>
</tr>
<tr>
<td>Brush Motor;</td>
<td>3.0 Kw</td>
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<tr>
<td>Dust Extraction unit;</td>
<td>5.5 Kw</td>
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</tbody>
</table>

We are always pleased to discuss your requirements and quote for any types of machines you may require.

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