CNC SURFACE WHEEL LATHE

YSL - 12
CNC Surface Wheel Lathe is an automatic machine for simultaneous re-profiling new or worn-out wheels when disassembled from railway vehicles like locomotives, electrical and diesel multiple units, coaches, wagons, metro & tram coaches.

**DURING AUTOMATIC CYCLE FOLLOWING OPERATIONS ARE PERFORMED:**
- Automatic wheel set loading by machine jack
- Pre-measurement of wear & diameter
- Machining of tread & flange
- Post-measurement of profile & diameter
- Automatic unloading of wheel set

**BEST VALUE FOR MONEY:**
- Automatic roll-in & roll-out of wheel set through specially designed traversing unit to increase productivity.
- All load-bearing structures are built with high strength, close-grained cast iron giving dimensional & geometrical stability and efficient vibration damping.
- Electronic wear measurement system for economical depth of cut.
- Extremely wear resistant, hardened and ground, OHNS guideways sliding on SKC lining.
- Sandvik or Kennametal tool inserts.
- Auto tool retraction during power failure and emergency.
- Siemens/Fanuc CNC System with operator friendly screen.
- Remote Diagnostic software for controlling and maintaining the machine from HYT headquarter.

**TECHNICAL DATA OF MACHINE**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track Gauge</td>
<td>As Required*</td>
</tr>
<tr>
<td>Max. Main Drive Motor Capacity</td>
<td>2 x 37.5 kW</td>
</tr>
<tr>
<td>Cutting Speed while Profiling</td>
<td>25 to 80 m/min</td>
</tr>
<tr>
<td>Tool Post Feed for Wheel Profiling</td>
<td>0.1 to 3.5 mm/rev</td>
</tr>
<tr>
<td>Tool Post Rapid Speed for Both Axes</td>
<td>3000 mm/min</td>
</tr>
<tr>
<td>Max. Chip Cross Section while Profiling</td>
<td>16 mm²</td>
</tr>
<tr>
<td>Min. Productivity</td>
<td>24 wheel sets/8 hours</td>
</tr>
</tbody>
</table>

For Higher Productivity, YSL-08 & YPL-01 Models are available

*Broad Gauge / Standard Gauge / Meter Gauge / Narrow Gauge / Cape Gauge / Any other gauge

**ACCURACIES OF WHEEL SET**

**Wheel Profiling**
- Max. Difference in Dia. of Both Wheels: <0.3 mm
- Accuracy of Wheel Profile when Compared with Standard Gauge: <0.3 mm
- Radial Run Out of Wheel: <0.3 mm
- Axial Run Out of Wheel: <0.3 mm
- Profile Surface Finish: ≤12.5 μm Ra

**Brake Disc Machining (Optional)**
- Min. Surface Finish: <2.5 μm Ra
- Flatness of Surface: <0.1/100 mm
- Lateral Wobble: <0.3 mm

**HYT ENGINEERING CO. PVT. LTD.**

Economical Rolling Stock Maintenance
Goes Global

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