従来の KN151 を進化させ、
完全ドライカットをより高次元で実現した環境と
人にやさしい 6 軸 CNC ホブ盤です。

The Eco-Human Friendly 6 Axis CNC KN152 Hobbing Machine, the successor to the
KN151 ensures sophisticated Complete Dry Cutting.

KN 152

- CNCホブ盤
- CNC Hobbing Machine

環境にやさしい

Smooth Chip Removal

- 機内は水平部を極力削減しつつ、急傾斜部を大幅に増やすことにより、スムーズに切り
  くずを排出させます。良好な切りくず排出性によりエア使用量が削減でき、省電力化に
  貢献します。
- The machine has increased slanted sections with few horizontal sections allowing rapid chip
  removal from the cutting tool area. This feature reduces air consumption, and contributes to
electrical power saving.

Wet Cut Hobbing using Water Soluble Coolant or Wet/Dry Cut Hobbing (Option)

- 水溶性ウェット加工とすることで、不水溶性ウェット加工で発生していた油煙による工場内作業環境悪化を防ぎます。
- Wet cut hobbing with water soluble coolant prevents the working environment from becoming contaminated with the generated oil mist when conventional oil based coolant is used.

良好な作業性

Great Accessibility

- 縦型ホブ盤はワーク軸が垂直なため、横型ホブ盤に対し接近性が良好です。ワークや治具の段取り換えが容易で、オートローダーを
  付属しても接近性は変わりません。機械右側の広い開口部により、機内での作業性が良好で作業者の負担が軽減できます。
- A vertical hobber allows great accessibility to the work table/tooling area when compared to a
  horizontal hobber as the work table axis is vertical. Changing parts or fixtures is simple, and
good accessibility is assured even if when an auto part loader is added to the machine.
Also, great operability due to a wide open tooling area on the right side of the machine
reduces the operator’s workload.

長尺の軸物ワークの加工が得意

Precision Hobbing of Long Shaft Parts

- 垂直移動距離が 400 mm、テーブル上面から上部センターまでが最長 645 mm と作業スベース
  が広く、工場内のワークももちろん、軸物ワークの加工に威力を発揮し高い汎用性を
  持っています。
- The KN152 has 400 mm of Z axis (axial) stroke, and 645 mm of distance from the work table
top to tailstock center. This highly versatile arrangement allows hobbing of a wide range of
parts from long shaft parts to cylindrical parts.
High Speed Hobbing and Stable Hobbing Accuracies

- The main motor capacity has been increased to 7.5 kW as standard specifications from 5.5 kW of the predecessor, allowing even faster and more stable hobbing.
- The integrated column and tailstock column increases the thermal stability and minimizes the O.B.D.(size) variation from a cold start due to thermal deformation allowing for superb machining accuracies.

Two Chip Conveyor Layouts

- The chip conveyor exhaust can be located at the rear or left side of the machine depending on the factory layout.

Work Table Backlash Eliminator

- A hydraulically controlled split worm is utilized as a Work Table Backlash Eliminator. This device creates a Zero Backlash condition for the work table under all cutting conditions. The time-proven, simple and reliable backlash eliminator allows consistency in hobbing accuracies especially when hobbing large pitch gears and opposite hand hobbing (lead angle of a hob cutter is opposite of the helix angle of the part).

NC Auto Loader (Option)

Previously, the hydraulically controlled auto loader was seated on the machine bed. Now, the KN152 has the NC auto loader attached to the tailstock column preventing chip accumulation. Loader Indexing speed and smoothness is also increased.

Also, the long part lifting stroke aids in an efficient part loading/unloading of cylindrical and shaft parts.

A Highly Accurate Hob Head and Work Table (Option)

A new highly accurate hob head utilizing a built-in spindle motor and/or a highly accurate work table design with a built-in servo motor is optionally available. The high speed direct drive motor system of the hob head and work table delivers very accurate finish hobbing or hard hobbing equivalent to gear grinding accuracies.
機械外観寸法図 Machine dimension

仕様 Specifications

<table>
<thead>
<tr>
<th>部材</th>
<th>Machine capacity</th>
<th>善用 unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Workpiece Diameter</td>
<td>150</td>
<td>mm</td>
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<tr>
<td>Max. Module</td>
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</tr>
<tr>
<td>Max. Axle Feed Travel</td>
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<td>mm</td>
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<tr>
<td>Max. Hohl Head Swivel</td>
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</tr>
<tr>
<td>Min. - Max. No. of Teeth</td>
<td>3-1000</td>
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<tr>
<td>Max. RPM of Table</td>
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<tr>
<td>Workable Area</td>
<td>Center Distance from Hob to Table 15-150 mm</td>
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<tr>
<td>Workable Top Diameter</td>
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<tr>
<td>Workable Top</td>
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<tr>
<td>Workable Top from Table Top to Taktol Center 345-645 mm</td>
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<tr>
<td>Hob Speed and Feed</td>
<td>Max. RPM of Hob 100-1300</td>
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<tr>
<td>Feed</td>
<td>Max. Axle Feed, Infinitely Variable</td>
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<tr>
<td>Feed</td>
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<td>Machine Height</td>
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<tr>
<td>Weight</td>
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<td>kg</td>
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</tbody>
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【掲載情報】機械の仕様等に伴う削減や変更することがあります。 Contents of this brochure are subject to change due to machine developments.