KNM X SERIES

Stationary measuring machines resp. in docking design for spur and helical gears, bevel gears, gear tools, shafts, bearing rings etc.

With KNM X series, KAPP NILES Metrology GmbH - manufacturer of the currently largest gear measuring machines (stationary or transportable) in the world - offers customized stationary state-of-the-art measuring machines as well as docking station solutions (machine base with rotary table and portable 3-axes-measuring unit).

Ultimate high precise measurement of medium and large size gears in the lab or on the shop floor - no foundation required.
Highlights of high precise KNM X:

- machine structure with outstanding intrinsic accuracy
- large bearing distances of guides
- inherently stable granite machine base on active damp-ers to absorb vibrations → no foundation required
- drive system close to centre of gravity
- linear motors in X-, Y-, Z- measuring axes
- high precision air- or hydrostatic bearing rotary tables (diameters from 500 to 1,800 mm) with direct drive and through hole
- motorized positioning of measuring column (V-axis) to the actual workpiece diameter
- laser based system for safe operation

<table>
<thead>
<tr>
<th>type</th>
<th>workpiece diameter [mm]</th>
<th>measurable vertical height [mm]</th>
<th>number of axes</th>
<th>max. weight of workpiece [daN]</th>
</tr>
</thead>
<tbody>
<tr>
<td>KNM X series*</td>
<td>0 - 6,000</td>
<td>1,000 - 2,100</td>
<td>3 + 1</td>
<td>4 + 1</td>
</tr>
</tbody>
</table>

* customised design