A wide selection of materials, sizes and configurations

Materials, sizes and profiles
Rotek offers a wide selection of aluminum and carbon, stainless and alloy steels. All are certified, all are traceable. Seamless rolled rings are produced in diameters from 20 inches to 160 inches, heights to 24 inches and weights to 9,000 pounds. Profile configurations from simple rectangular cross sections to complex shapes including flanges, grooves and tapers.

Computerized heat treating
Normalizing, quench hardening, annealing and tempering operations are performed in-house.

Complete sizing and machining operations
Rotek’s post-forming capabilities include specially designed expander units that perform hot or cold sizing operations to bring rings into final diameter tolerances, and complete machining capabilities that allow us to furnish rings at any stage from “as rolled” to “ready-to-install”.

A wide selection of materials, sizes and configurations

Note: Rotek can supply seamless rolled rings in sizes other than those shown.

<table>
<thead>
<tr>
<th>Ring Weight, lb</th>
<th>Minimum</th>
<th>180 lbs. 65 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum</td>
<td>9,000 lbs. 4000 kg</td>
<td></td>
</tr>
<tr>
<td>Outer Diameter, O.D.</td>
<td>Minimum</td>
<td>20 in. 500 mm</td>
</tr>
<tr>
<td>Maximum</td>
<td>160 in. 4300 mm</td>
<td></td>
</tr>
<tr>
<td>Ring Height, in</td>
<td>Minimum</td>
<td>2 in. 50 mm</td>
</tr>
<tr>
<td>Maximum</td>
<td>24 in. 600 mm</td>
<td></td>
</tr>
<tr>
<td>Wall Thickness, in</td>
<td>Minimum</td>
<td>O.D. &lt; 53 in. 1.6 in. 40 mm</td>
</tr>
<tr>
<td></td>
<td>O.D. &gt; 53 in. 0.03 x O.D.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>2.5 x height but for functional efficiency, restrict to 24 in. 600 mm</td>
</tr>
</tbody>
</table>

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Exceptional Rings Lead to Exceptional Bearings

A history of success
Rotek began production of seamless rolled rings in 1981 with one purpose in mind: to produce high-quality rings designed for optimal performance in a specific application. The successful implementation of this simple approach has attracted a large following of loyal customers and companies that understand the benefits of Rotek's engineering and manufacturing capabilities.

A metallurgical and engineering pedigree
Rotek has been the nation's leading manufacturer of large diameter slewing bearings since 1961. Rolled rings are the basic component of large-diameter slewing bearings. The same metallurgical and engineering expertise used to design rolled rings for slewing bearings is available to assist you in specifying seamless rolled rings for your application.

A superior production process
Seamless rolled ring manufacturing offers an inherent product advantage: a tangential grain orientation that ensures isotropic mechanical properties over the ring's entire circumference.

Automation that provides consistency
Rotek's highly computerized operations offer repeatability that can provide the highest degree of consistency and quality from one run to the next.

Rings furnished “as rolled” or “ready to install”
Rotek's complete in-house heat treating and machining capabilities allow us to supply seamless rolled rings in the stage of completion that meets your needs and capabilities.

Supplying rolled rings to a wide range of industries:
- Off-highway and construction machinery
- Mining equipment
- General equipment
- Pressure vessel and heat exchanger flanges
- Subsea and land oil drilling equipment
- Gear/power transmission rings
- Bearings
- Mining and alloy wire lines
- Large-size wind rings
- Electrical transformers
- Custom machinery

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