



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 240 inches, heights to 43 inches and weights to 35,000 pounds. Profile configurations from simple rectangular cross sections to complex shapes including flanges, grooves and

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".

Ring Weight, Gr

Minimum 180 lbs. 80 kg Maximum 35,000 lbs. 16000 kg

Outer Diameter, O.D.

Minimum 20 in. 508 mm Maximum 240 in. 6100 mm

Ring Height hr, O.D. – I.D.

Maximum

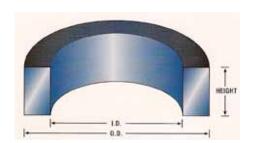
2 in. 50 mm 43 in. 1100 mm

Wall Thickness

Minimum O.D. < 53 in. 1.6 in. 40 mm O.D. > 53 in. .03 X O.D. Maximum 2.5 X hr but for functional efficiency, restrict to 600 mm

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

24 in.



Rotek® Rings

Rotek Incorporated

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Quality seamless rolled rings for your specific application

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

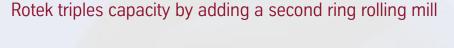
Seamless rolled ring manufacturing offers an inherent product advantage: a tangential grain orientation that ensures isotropic mechanical properties over the ring's entire circumference.

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.





New high speed sawing.



Pressed blank.



Ring rolling.



Manipulator transfers billet from furnace to press.



The new rolling mill utilizes the most advanced production technologies available, making it one of the most sophisticated in the world. New equipment includes a 400/400-6000/1200 ring mill and a 5,000 ton press.

Supplying rolled rings to a wide range of applications and industries including:

- Off highway and construction machinery
- Mining equipment
- Steam and gas turbines
- Pressure vessel and heat exchanger flanges
- Subsea and land oil drilling equipment
- Gear/power transmission rings
- Bearings
- Mixing and drying kiln tires
- Large valve seat rings
- Electrical transformers
- Custom machinery



Manipulator transfers ring from furnace to mill.



Eight heat treat furnaces and multiple quench tanks.