



an SKF Group brand

Kaydon **infinite**<sup>®</sup>  
bearing solutions  
for Oil & Gas Applications



# Proven bearings from a global leader

When drilling a mile or deeper for oil or gas — at temperatures over 300°F and pressures over 10,000 psi — you need bearings you can count on. Kaydon bearings are known for quality and long life, proven in the toughest conditions, and backed globally with technical support.

Our high-precision product line includes a variety of standard and custom bearings to meet specific needs:

- **Slewing Ring** – rugged bearings for rotation and support (pages 2-3).
- **Thin Section** – space-saving bearings have high dynamic capacity (pages 4-5).

■ **Remanufactured and New Replacement** – Kaydon remanufactures worn bearings so they perform like new ([page 6](#)).

## Slewing Ring bearings



Kaydon slewing ring bearings transmit and rotate heavy loads precisely and reliably, in diameters of up to 26.25' (8m)

and configurations to suit almost any application.

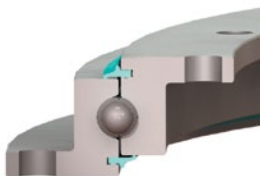
- **4-point contact ball bearings** carry radial, axial and moment loads simultaneously and have integral seals to resist contamination.
- **8-point contact ball bearings** provide up to 80% more load capacity than 4-point contact bearings, with many of the same features.
- **Cross-roller bearings** offer exceptional stiffness with low

rotational torque, in a smaller envelope than you might expect.

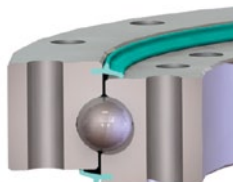
- **3-row roller bearings** share the thrust, radial and moment loads between the rows, resulting in the highest capacity for any given diameter.

For slewing ring specifications, ratings and application guidance, please consult Kaydon's Catalog 390. We'll be happy to send you a copy, or you can download a PDF file at [www.kaydonbearings.com](http://www.kaydonbearings.com).

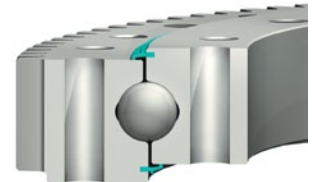
RK Series



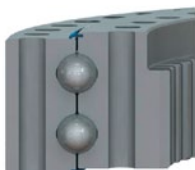
HS HT MT & KH Series



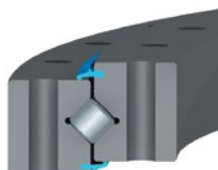
XT Series



DT Series



XR Series



TR Series



# Where you can count on Kaydon slewing ring bearings



Marine Cranes



ROV LARS



Top Drives



Marine Terminals



Mooring Systems



Thrusters



Riser Connections



Iron Roughnecks



Coil Tubing Units

---

## Other applications:

- Casing Running Tools
- Shipboard/port cranes
- Umbilical Carousels

# Thin Section bearings

Reali-Slim® thin section bearings feature a cross-section that stays constant as the bore diameter increases, providing more dynamic capacity than conventional bearings. This results in significant advantages for oil and gas operations, including:

- space and weight savings for more compact designs
- longer life than standard bearings
- consistently high-level performance
- enhanced design flexibility
- a wide range of styles and sizes
- sealed or open configurations
- options to maximize corrosion resistance

Kaydon introduced the thin section bearing in the 1940s and still offers the industry's most comprehensive range. Bore sizes range from 1" to 40" (25mm to 1m) and cross-sections from .187" x .187" to 1" x 1" (4.75mm x 4.75mm to 25mm x 25mm). Styles include:

- Radial
- Angular
- 4-point contact
- Metric
- Open
- Sealed
- Ultra-Slim® bearings
- Extra-light versions
- Stainless steel

Kaydon offers a variety of modifications (e.g. custom preload or internal fit, precision class upgrades, custom lubricants, duplexed sets) and stacked bearing arrangements are available.

Specifications, performance data and other details can be found in our Catalog 300. It's available at no charge from Kaydon Bearings, 800-514-3066, or you can download a PDF file at [www.kaydonbearings.com](http://www.kaydonbearings.com).



Open bearing

Sealed bearing

## Open Bearings



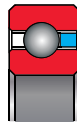
Series AA  
3/16" x 3/16"



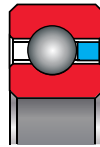
Series A  
1/4" x 1/4"



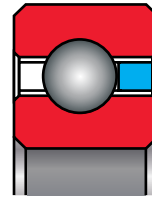
Series B  
5/16" x 5/16"



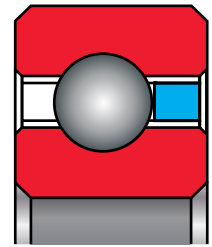
Series C  
3/8" x 3/8"



Series D  
1/2" x 1/2"



Series F  
3/4" x 3/4"



Series G  
1" x 1"

## Sealed Bearings



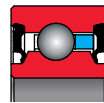
Series JHA  
3/16" x 1/4"



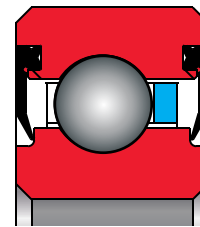
Series JA  
1/4" x 1/4"



Series JB  
5/16" x 5/16"



Series JU  
1/2" x 3/8"



Series JG  
1" x 1"

# Where you can count on Reali-Slim<sup>®</sup> thin section bearings



Rotating Rig Equipment



Tubular Handling



Iron Roughneck



Power Swivels



Pipe Inspection Equipment

---

## Other applications:

- Cement Swivels
- Rotating Control Heads
- Rotary Unions
- Rotating Downhole Tools

# Remanufactured bearings: an economical alternative

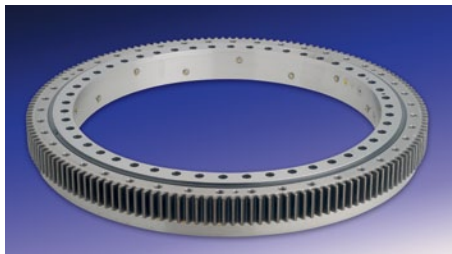
All bearings wear out eventually, even Kaydon bearings. When they do, Kaydon can restore them to like-new condition for a lot less than you'd pay for a new replacement bearing.

Kaydon can remanufacture any bearing to meet or exceed OEM specs, regardless of design or configuration,

up to 26.25' (8m) in diameter. Our remanufactured bearings come with a full one-year warranty, just like a new bearing. Yet they cost much less than new replacements — typically 50% of the price — and can usually be delivered much faster.

In our dedicated department in Avon,

Ohio, experienced professionals apply the same skill and craftsmanship to remanufacturing as we devote to producing original equipment bearings. The bottom line: every bearing that leaves a Kaydon plant, whether new or remanufactured, delivers the performance and long life you need.



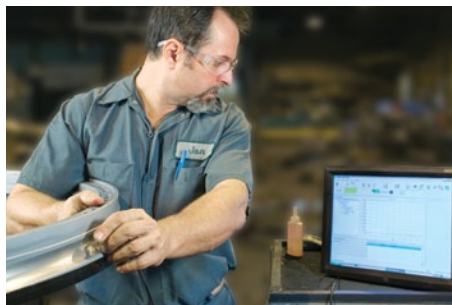
## All ball and roller bearings remanufactured — regardless of OEM — 10" to 315" in diameter

- Thrust Ball & Roller
- Radial Ball & Roller
- Cross Roller
- Multi-Row Ball & Roller
- Three-Row Roller
- 4-Point Contact Ball
- 8-Point Contact Ball
- Cylindrical Roller
- Thin Section Ball & Roller



## Standard-setting facilities

- Temperature-controlled facility built in 1980
- State-of-the-art CNC manufacturing equipment
- Shortest lead time in the industry
- ISO 9001:2008 certification
- NDT, failure analysis and technical support



## A full-time, dedicated program

Kaydon gives worn bearings new life at big savings vs. new bearings with a dedicated program that includes:

1. Free inspection on slewing ring bearings up to 8' in diameter
2. Inspection in one week or less
3. Non-destructive testing performed on all bearings
4. Engineering analysis
5. Formal analysis reports provided for all inspections
6. Four-week turnaround for bearings 8' and under, and just a few more weeks for bearings 8' to 20'
7. Substantial savings versus the price of a new replacement bearing
8. Emergency remanufacturing services
9. One-year warranty for all remanufactured bearings

### Kaydon Bearings

1500 Nagle Road  
Avon, Ohio 44011

440.871.2500 tel  
800.286.6274  
440.871.2503 fax

[reman@kaydon.com](mailto:reman@kaydon.com)

[www.kaydonbearings.com](http://www.kaydonbearings.com)

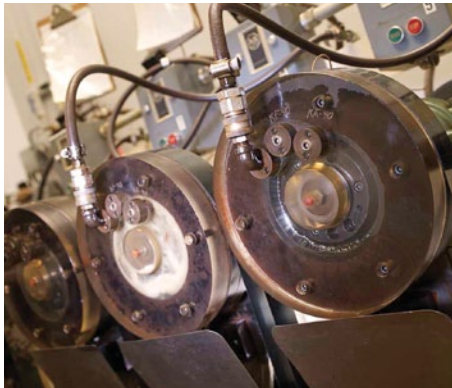
# Superior engineering and technical support

Kaydon Bearings has been helping energy producers and others maximize productivity and cost-effectiveness for over 70 years. We combine advanced engineering with precision manufacturing to create high-quality bearings that perform reliably, cycle after cycle. Kaydon is known not just for bearings, but for solving design problems... general or application-specific.



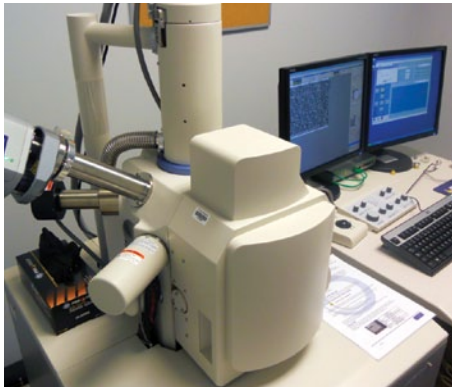
**Engineering** – Our talented engineering team brings a collective 300 years of experience to each design challenge, with a value orientation that recognizes that customer budgets are not unlimited. Using the latest computer technology and analytical tools, they go beyond bearing size and style to recommend coatings, lubricants, internal fit-up and more to meet application needs.

**Manufacturing** – Unsurpassed production facilities assure Kaydon of control over quality and scheduling to meet your requirements. Our strategically-located plants in Michigan, Ohio, South Carolina, and Mexico have the flexibility to fill both high-volume and low-volume orders.



**Certified Quality** – Kaydon facilities have earned ISO 9001:2008 and AS9100B (aerospace) certifications, among others. We use Six Sigma, Lean Manufacturing and other widely-accepted methodologies to keep these operations functioning at a world-class level.

**Support Network** – A dedicated service team supports global customers from design through delivery, and with installation support and troubleshooting as needed. Factory-trained technicians are available in North America from our Michigan headquarters, and overseas from qualified local distributors.



**Research & Development** – Kaydon's ongoing commitment to R&D includes a comprehensive testing capability for bearing life, performance in harsh environments, torque and vibration, speeds and loads, and more.

Visit our website: [www.kaydonbearings.com](http://www.kaydonbearings.com) for latest releases, newest features, and downloads of catalogs, white papers, videos, software, and CAD drawings.

**Premium Products** Real-Slim® Thin Section Bearings

**Kaydon Thinfinite bearings solutions**

How Real-Slim® bearings outperform other thin section bearings

Real-Slim® bearings consistently outperform other thin section bearings. They are designed to provide a 99.9% weight reduction and a 97% reduction in space compared to standard thin section bearings.

At Kaydon, we apply Thinfinite® engineering expertise and experience to solve the world's most demanding Thinfinite® solutions meet the most aerospace and defense, commercial industrial machinery, medical systems, mining, oil and gas, renewable energy, and semiconductor manufacturing markets.

[www.kaydonbearings.com](http://www.kaydonbearings.com)

**White Paper**

**4-point bearings do triple duty while saving space**

A B C D

The Advantages of Thin Section Bearings – Kaydo...

**Ultra-Slim**

99.9% weight reduction

97% reduction

Application testing - Kaydon Bearings

0:00 / 0:22

Home Search RFQ Suppliers Site map Contact

**800.514.3066**  
customer service

Please register with our new website for access to drawings and software. Already registered? Login below. Enter your email address

**Kaydon infinite bearing solutions**

At Kaydon, we apply infinite engineering to solve the world's most demanding infinite solutions meet the most aerospace and defense, commercial industrial machinery, medical systems, mining, oil and gas, renewable energy, and semiconductor manufacturing markets.

**Thinfinite solutions in thin section bearings**

Kaydon Thinfinite® thin section bearing solutions save weight, create

News

This section bearings save weight and space: new video

How to select bearings for low-speed applications

Download the new Kaydon Commercial Aerospace brochure

SKF secures long-term agreement for Kaydon bearings with major wind turbine manufacturer

Visit Kaydon Bearings at 2014 AWEA Windpower show

Download Kaydon's new brochure: Wind Energy Bearings

Four-point bearings do triple duty while saving space

Kaydon earns Gold Boeing award

Home Search RFQ Suppliers Site map Contact

**800.514.3066**  
CUSTOMER SERVICE

Enter your email address

Login to access drawings and engineering software

New user? Register

**Kaydon infinite bearing solutions**

Videos

**Thin section bearings**

At Kaydon, we apply Thinfinite® engineering experience and expertise to solve the world's most unique bearing challenges. The Kaydon Real-Slim® thin-section bearing is one of the most widely used thin section bearings in the world. Learn more about how Kaydon Thinfinite® bearing solutions save weight, create space, reduce friction, increase design flexibility, and provide excellent running accuracy.

Advantages of thin section bearings (3:32)

**Research, development, and testing**

Kaydon's infinite® engineering expertise and experience extends to the Kaydon Bearings research, development, and testing labs. Kaydon engineers use advanced analytical tools and calculations to understand, test, and recommend the best possible bearing solution for each customer.

Thin section bearings research, development, and testing



**Kaydon Bearings**  
2860 McCracken Street  
Muskegon, Michigan 49441 U.S.A.  
231.755.3741 tel  
800.514.3066  
231.759.4102 fax

bearings@kaydon.com  
[www.kaydonbearings.com](http://www.kaydonbearings.com)