









www.kaydonbearings.com

Diverse solutions for demanding designs

It takes more than quality and performance for a bearing to meet today's demanding design requirements. It takes truly innovative thinking, based in real-world experience. At Kaydon Bearings, that's just the beginning.

Kaydon Bearings offers:

- a wide range of bearing configurations and sizes
- standard and custom designs
- uncompromising precision and reliability
- success in hundreds of applications

- comprehensive technical support
- a 70-year commitment to customer satisfaction

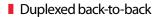
At Kaydon, we specialize in meeting challenges to ensure product success. If you could use that sort of help, give us a call.

Thin Section bearings

Reali-Slim® thin section bearings are known for saving designers critical space and weight. They feature a crosssection that remains constant as the bore diameter increases, providing more dynamic capacity and longer life than standard bearings. This constant cross-section is especially valuable when you're designing a product to be manufactured in a variety of sizes.

Kaydon offers the industry's most comprehensive range of thin section bearings. Bore sizes range from 1" to 40" (25mm to 1m) and cross-sections from .187" x .187" to 1" x 1" (4.75mm to 25mm). Here is a summary of the styles available to solve your design problem.

- Radial
- Angular
- 4-point contact
- Metric
- Open
- Sealed
- Ultra-Slim® bearings
- Extra-light versions
- Stainless steel
- Corrosion resistant (e.g. Endurakote® plating)
- Duplexed face-to-face



Ground for universal duplexing

Most of these can be provided with modifications, such as custom preload or internal fit, precision class upgrades, custom lubricants, and duplexed sets.

Reali-Slim® bearings have saved space and weight in countless applications since Kaydon introduced the concept in the 1940s. Let us show you how they can solve your application challenge. You'll find specifications, performance data and more in our Catalog 300, available in print, or as a PDF file at www.kaydonbearings.com.







Kaydon infinite bearing solutions

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.

WireX® wire race roller bearings optimize space, weight and corrosion resistance with wire raceways in lightweight support rings. They work well with non-rigid and out-of-flat mounting structures.

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.

Other Bearings

KT tapered roller bearings provide Kaydon's familiar space and weight saving advantages in applications requiring a tapered design.

Cylindrical roller bearings provide very high radial load capacity where axial load is not as critical.





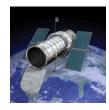
Proven in countless applications













Applications	Thin Section	Slewing Ring	Roller	
Аррисацонз	Bearings	Bearings	Bearings	Wire X°
Aerospace & Defense				
Camera mounts	_			
Gimbals/gimbal assemblies				
Instrument mounts				
				_
Radars (fixed and mobile)				
Satellite and radar antennas				
Telescope bases				
Truck mounted communication equipment Aircraft (Jet fighters, Helicopters, UAVs, Airlift & Cargo, Commercial)				
Counter-measure systems				
De-icing sliprings				
Gatling gun bearings				
Landing wheels				
Mast, swash plate and gearbox bearings				
Navigation, target acquisition pods/FLIRS				
Propulsion and control systems				
Refueling booms, winches, APUs				
Rescue hoists				
Ships				
Carrier elevator and arresters			_	
Missile defenses				
Sonar, radar and communications				
Submarine periscopes				
Torpedo deck mount launchers				
Ground Combat and Security Vehicles				
Suspensions				
Target & sighting systems				
Transmissions				
Turrets				_
Weapons				
Guidance & propulsion systems				
Gun mounts and ammunition loaders				
Missile and mortar launchers				_
Space				
Mars rover				
Satellite deployment spin table bearings				
Satellites (e.g. Hubble)				
Solar panel deployments				
Space stations				
Telescopes				
Bulk Handling				
Augers/reclaimers				
Bucket wheel excavators				
Spreaders				
Stackers/reclaimers				

Kaydon infinite bearing solutions

Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings	
Industrial Machinery				
Bottle/jar fillers				All that the late of
Diamond wire saws				3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diaper paper manufacturing machines				
Food processing equipment				
Index and rotary tables				
Knitting machinery				
Lift/pallet trucks				000
Machine tools				Value of the second
Material handling equipment				
Offset printing machines				
Optical scanning and photographic equipment				
Packaging equipment				
Pallet wrappers				A
Paper making dandy rolls				
Robots and automation systems				
Rotary filling systems				
Scissor lifts				
Spinning machines				
Textile machinery				19
Tire making machinery				
Welding positioners				
Transportation				
Aircraft de-icers				The state of the s
Jetways/airline passenger bridges				
Locomotives and rail tie cranes				The same of the sa
				16000
Luggage security scanners				A P P P
Rail steering mechanisms				A CONTRACTOR OF THE PARTY OF TH
Transfer tables				
Municipal Equipment				O O Market Market
Bridge inspection lifts				
Digger derricks				SE STAR
Fire truck aerial ladders and snorkels				100
Rotating bridges				
Utility cranes				
Water treatment - clarifiers, thickeners and rotary distributors				
Medical Systems				
CT scanners	_			
Human assist robotics				
Medical diagnostics equipment				· ·
Oncology treatment machines				
PET scanners				
Robotic surgery devices				
X-ray equipment				
Renewable Energy				
Solar arrays altitude/azimuth positions				
Solar panel altitude - azimuth mountings				4
Solar panel gear boxes				
Wind turbines - pitch/yaw positions				
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Proven in countless applications













Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings
Semiconductors			
Atmospheric & vacuum transfers			
CVD systems			
Dicing equipment			
Die bonders, including flip chip			
Dispensing			
Etching systems			
Flat pannel display bonders			
Inspection equipment			
Lapping equipment			
LCD steppers			
Manipulators			
Measuring systems			
Mechanical polishers			
Megasonic cleaning systems			
Photolithography/lens diaphragms/stepper motors			
Pick and place robotics			
Positioners			
Probe stations			
Spin dryers			
Sputtering equipment			
Test heads			
Thin-film and vacuum deposition systems			
Wafer transfer robots			
Wafer scrubbers/polishers			
Oil and Gas			
Casing running tools			
Coiled tubing units			
Downhole tools and motors			
Draw-works			
Iron roughnecks			
Marine terminals (Buoys)			
Mooring systems			
Pipe inspection equipment			
Riser assemblies			
Rotary steerable systems (RSS)			
Rotary tables			
Rotating control devices			
Rotating drilling equipment			

Rotating heads Swivels

Kaydon infinite bearing solutions

Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings	
Heavy Equipment				The State Van
Construction Equipment				
Aerial work platforms/man lifts		_		The state of the s
Articulating dump trucks				
Boom truck cranes				
Cement pumper trucks				The state of the s
Concrete pumps and screeds				
Cranes - pedestal, tower, lattice, and knuckle boom				
Digger derricks				
Excavators				A
Road paving equipment				
Semi tow trucks				
Tunnel boring machines				
Utility vehicles/bucket trucks				
Steel				THE YEAR
Crane hook and lift truck rotators				
Electric arc furnaces				
Ladle turrets				
Manipulators				WIND VIII
Turnstiles				
Uncoilers				
Forestry				
Chippers, debarkers and delimbers				
Feller bunchers				
Grapples				
Loaders				
Yard cranes				
Mining				
Bucket wheel excavators				
Continuous miners				
Haulage systems & scoops				
Hydraulic shovels				
Roof bolters				
Thickeners		_		
Marine				4
Azimuth thrusters				#\ //\\\
Capstans				4 4
Davits				
Offshore cranes (API 2C)				
ROVs				Park Marie Control
Ship loader/unloader				
Shipboard cranes				
Straddle carriers				
Winches				



More reasons to specify Kaydon Bearings



- 1. Decades of diverse experience
 - Kaydon has been helping customers develop optimum product designs for seven decades, inventing the thin section bearing and pioneering a variety of innovative approaches. Our product engineers have a combined 300 years of experience (250 of them bearing-specific), and are as proficient in application engineering as they are in design engineering.
- 2. Highest quality standards All Kaydon bearings are designed to demanding specifications and manufactured with the highest-

- quality materials and processes. Key certifications include ISO 9001:2008, AS9100B, NADCAP, and various customer requirements.
- 3. Comprehensive technical support The Kaydon R&D facility is home to the latest testing equipment for torque, vibration, sound, environmental effects, and more. You'll find 3-D CAD drawings and design software at our website. And should you ever need service, it's available in North America from our headquarters and overseas from qualified local distributors.



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