











www.kaydonbearings.com

Why you should specify Kaydon Bearings

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



- Duplexed back-to-back
- 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.



www.kaydonbearings.com 800.514.3066

Kaydon infinite[®] bearing solutions

Slewing Ring bearings

Kaydon slewing ring bearings transmit and rotate heavy loads precisely and reliably, in diameters of up to 20' (6.1m) 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. <u>Cross-roller bearings</u> offer exceptional stiffness with low rotational torque, in a smaller envelope than you might expect.

<u>3-row roller bearings</u> 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.



Why you should specify Kaydon Bearings

Proven in countless applications













Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings	Wire X°
Aerospace & Defense				
Camera mounts				
Gimbals/gimbal assemblies				
Instrument mounts				
Radars (fixed and mobile)				
Satellite and radar antennas				
Security camera mounts				
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 launchers				
Mortar launchers	_	_		_
Space				
Mars rover				
Satellite deployment spin table bearings				
Satellites (e.g. Hubble)				
Solar panel deployments				
Space stations				
Telescopes		_		

Kaydon infinite[®] bearing solutions

Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings	
Industrial Machinery				100
Bottle/jar fillers				
Diamond wire saws				1
Diaper paper manufacturing machines				1
Food processing equipment				¥.
Index and rotary tables				
Knitting machinery				10
Lift/pallet trucks				
Machine tools				
Material handling equipment				27
Offset printing machines				
Optical scanning and photographic equipment				8
Packaging equipment				14
Pallet wrappers				- 9
Paper making dandy rolls				X
Robots and automation systems				
Rotary filling systems				
Scissor lifts				1
Spinning machines				
Textile machinery				-
Tire making machinery				
Welding positioners				
Transportation				
Aircraft de-icers				-
Jetways/airline passenger bridges				- 8
Locomotives and rail tie cranes				
Luggage security scanners				
Rail steering mechanisms				0
Transfer tables				
Municipal Equipment				
Bridge inspection lifts		_		
				N.
Digger derricks				NO 22
Fire truck aerial ladders and snorkels				2
Rotating bridges				
Utility cranes				
Water treatment - clarifiers, thickeners and rotary distributors				
Entertainment and Displays				
Amusement rides		_		
Flight simulators	_	_		
Rotating rooms and buildings				-
				1
Rotating stages				
Rotating trade show displays				
Bulk Handling				
Augers/reclaimers				
Bucket wheel excavators				1
Spreaders		_		
Stackers/reclaimers		_		















Why you should specify Kaydon Bearings

Proven in countless applications













Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings
Renewable Energy			
Solar arrays altitude/azimuth positions	_	_	
Solar panel altitude - azimuth mountings	_		
Solar panel gear boxes		_	
Wind turbines - pitch/yaw positions		_	
Medical Systems			
CT scanners	_		
Human assist robotics	_		
Luggage security scanners	_		
Medical diagnostics equipment	_		
Oncology treatment machines	_		
PET scanners	_		
Robotic surgery devices	_		
X-ray equipment	_	_	
Semiconductors			
Atmospheric & vacuum transfers			
CVD systems			
Dicing equipment			
Die bonders			
Dispensing			
Etching systems	_		
Flat pannel display bonders			
Flip chip die 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 deposition systems Vacuum deposition systems			
Wafer transfer robots			
Water transfer robots Wafer scrubbers/polishers			
water scrubbers/polisiters			

Kaydon infinite[®] bearing solutions

Applications	Thin Section Bearings	Slewing Ring Bearings	Roller Bearings
Heavy Equipment			
Construction Equipment			
Aerial work platforms/man lifts			
Articulating dump trucks			
Boom truck cranes			
Cement pumper trucks			
Concrete pumps			
Concrete screeds			
Cranes - pedestal, tower, lattice, and knuckle boom			
Digger derricks			
Excavators			
Grapples			
Road paving equipment			
Semi tow trucks			
Funnel boring machines			
Jtility vehicles/bucket trucks Marine			
varine Azimuth thrusters			_
Buoys			
Davits			
Drilling equipment			
looring systems			
Offshore and portal cranes			
isers			
otary tables			
nip loaders/unloaders			
hipboard cranes		_	_
traddle carriers			
wivels		_	
teel			
rane hook and lift truck rotators		_	
lectric arc furnaces			
adle turrets			
lanipulators			
urnstiles			
ncoilers			
orestry			
hippers, debarkers and delimbers			
eller bunchers		_	
irapples			
oaders			
ard cranes			
lining			
Bucket wheel excavators			
Continuous miners			
laulage systems & scoops			
lydraulic shovels			
oof bolters			

















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.
- 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.



Kaydon Bearings Division 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

