

RBC Bearings

CTRL™ Bearings

INTRODUCING CTRL™ BEARINGS

by Schaublin



Schaublin Bearings on the world's fastest train

The high-speed French train, with a souped-up engine and wheels, speeds on its way to break the world speed record for conventional rail trains in eastern France, Tuesday, April 3, 2007, reaching 574.8 kph (357.2 mph).

"When we hit 242 mph, it felt like an airplane taking off."

Background

- Schaublin has created a PTFE self lubricating bearing designed to provide a **Continuous Torque Remaining for the Life of the bearing** by using expandable special feature to recover the wear
- Special design features utilized from Schaublin's precision machine collet product technology
- This bearing also reduces the inspection and maintenance costs endured by the customer

A Performance Solution

CTRL™ bearings provide continuous torque and clearance free operation

CTRL™ bearings benefit from many technological assets of RBC-Bearings

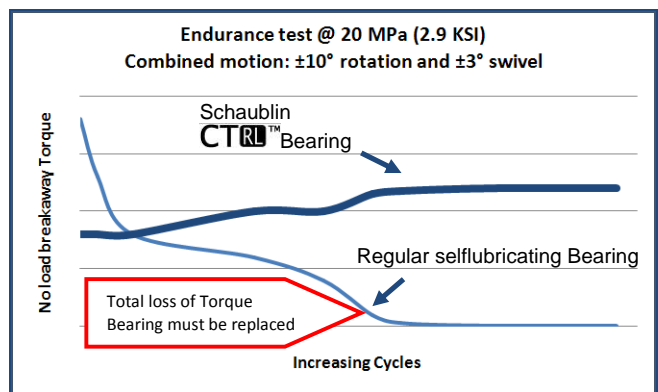
- Various liner systems (Uniflon®-E, Uniflon®-VV...)
- Full range of material choices and surface coatings
- Custom designs available

Typical applications

Every application that does not allow any clearance in the joint, in a vibration environment and under reverse loads

- Railway applications: High Speed Trains, Intercity Trains, Trams, Metros
 - Secondary suspension joints
 - Anti roll bar linkages
 - Coach-to-coach dampers
 - Yaw dampers
- Heavy armored vehicles
- Other industrial and aerospace applications

PATENT PENDING



Qualifications

CTRL™ Bearings are manufactured using proven technology

- Liner system meeting AS81820 for use in military and commercial aircraft applications
- Seal boots resistant to -40°C (-40°F) and 80 bar (1'160 PSI) hose down pressure according to railway requirements
- Surface finishing, coatings, conformity of the spherical assembly and liner bonding are all controlled per special processes

Availability

CTRL™ Bearings are available in combination with RBC Schaublin patents or RBC Trade Mark processes like our patented **FFT™** and low friction **UFFT™** bearings



SCHAUBLIN

ISO9001
EN9100

IRIS
EN9120

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RBC Bearings

Innovation, Commitment, Quality

RBC has been producing bearings in the USA since 1919. In addition to unique custom bearings, RBC offers a full line of standard industrial and aerospace bearings, including:



Spherical Plain Bearings

Radial, angular contact, extended inner ring, high misalignment. **QuadLube®**, **ImpactTuff®**, **Spreadlock® Seal**, **CrossLube®**, **DuraLube™**, and self-lubricating bearing. Available in inch and metric sizes.



Needle Roller Bearings

Pitchlign® caged heavy duty needle roller bearing, inner rings, **TJ TandemRoller®** bearings for long life.



Thin Section Ball Bearings

Standard cross sections to one inch. Sizes to 40 inches. Stainless steel and other materials are available. Seals are available on all sizes and standard cross sections. Super duplex configurations.



Self-Lubricating Bearings

Radial, thrust, rod ends, spherical bearings, high temperature, high loads. Available in inch and metric sizes. **Fiberglide®** self-lubricating bearings



Tapered Roller Bearings

Tyson® case-hardened and through-hardened tapered roller bearings. Available in many sizes. Used in Class 8 heavy truck and trailer wheel bearings, gearboxes, and final drive transmissions.



Airframe Control Bearings

Ball bearing types, self-lubricating types, needle roller track rollers.



Tapered Roller Thrust Bearings

Case-hardened. Sealed and unsealed for truck, tractor, and construction equipment steer axles, and Class 8 trailer landing gear.



Dowel Pins, Loose Needle Rollers, Shafts

Precision Products dowel pins, loose needle rollers, and shafts.



Integrated Assemblies

For robots and other process tool applications. Engineering design assistance. Production volume capacity.



Commercial Rod Ends

Commercial and industrial, precision, Mil-Spec series, self-lubricating, and aircraft. Sold under the **Heim®**, **Unibal®**, and **Spherco®** names. Available in inch and metric sizes.



Cam Followers

Standard stud, heavy stud, yoke type, caged roller follower cam followers. Patented **RBC Roller®** cylindrical roller cam followers, **HexLube®** universal cam follower, airframe track rollers.



Ball Bearings

Precision ground, semigrind, unground. High loads, long life, smooth operation. **Nice®** branded products are offered in caged and full complement configurations.



Ball Pin Plain Bearing Assemblies

Self-lubricating types, greased plain bearings, sealed. High loads, high vibration resistant, long life. **BFIT®** and **CT®** configurations available.



Specials

RBC manufactures many specialty bearings for the aerospace, oil and energy, semiconductor equipment, packaging, transportation, and other industries.