



CORPORATE & PRODUCT OVERVIEW



SMOOTH & QUIET LINEAR MOTION



WWW.PACIFIC-BEARING.COM

CORPORATE OVERVIEW

WHO WE ARE

An entrepreneurial mechanical engineer, Bob Schroeder, founded Pacific Bearing in 1983



with **Simplicity**[®], the world's first self-lubricating linear bearing. Mr. Schroeder's vision was then, and still is today, to simplify linear motion applications and reduce costs for industrial motion control consumers worldwide. This ideal has been realized and embraced today by Pacific Bearing's 100+ employees that engineer, manufacture, market and sell innovative linear guide systems and components.

OUR COMMITMENT TO YOU

The mission of Pacific Bearing Company is to solve linear motion application challenges of our domestic and global customers with the highest integrity, innovation, professionalism, and consideration while concurrently maintaining profitability.

New and exciting technology that raises the bar for linear motion systems...we deliver. As the leaders in self-lubricating linear motion, we aim to give you our best: products, value and service. You deserve nothing less.

PACIFIC BEARING TIMELINE

1982

Company founded on the creation of the first self-lubricating product, **Simplicity**[®] with **Frelon**[®] liner



1983 - 1996

Simplicity[®] product line expanded to include flange & sleeve bearings, die set bushings, square bearings, linear slide assemblies, pillow blocks and a complete line of European and Japanese metric bearings.



1997

Hevi-Rail[®] combination axial and radial load linear bearings are introduced.

With unique patented pre-load, **Redi-Rail**[®] rolling element linear guides and drawer slides (inch series) go to market.

Pacific Bearing moves operations to international headquarters in Roscoe, IL.



1998

Expanded **Redi-Rail**[®] product line with metric series.





PRODUCT OVERVIEW

The world-renowned Frelon® self-lubricating liners produced by Pacific Bearing have long been the answer to industry's design hurdles that can't be overcome by common rolling element bearings and guides. Submersed machinery, grit and contamination, pounding vibration, extreme temperatures and repeated catastrophic failure became the very factors that spurred the innovative genius that led to the creation of an entire product family of self-lubricating linear motion product.



Pacific Bearing dares to go against the grain to bring you the highest quality products that maximize your processes while minimizing your effort.



THE DESIGNS ARE SIMPLE,
THE IMPACT IS TREMENDOUS

Self-lubricating products advantages...

- Longer life, lower cost - immediate ROI
- Reliable smooth and quiet motion
- Easy to interchange, easy to install
- Will NEVER catastrophically fail!

1999

Ceramic-coated, lightweight **Feather Shafting®** is created.



2000

Self-lubricating, 2-piece **Dolphin Guide®** products introduced.



2001

Launch of **Mini-Rail®** self-lubricating miniature linear guides.



2002

Integrated **Redi-Rail® Belt Drive** systems are launched.



2004

Mini-Rail® LS/MS... same self-lubricating technology in a compact system utilizing precision lead screws.



SIMPLICITY®

Self-lubricating Linear Bearings with engineered - to-match steel and ceramic coated shafting, pillow blocks, pre-drilled support rails, and integrated I-piece rail and shaft.

BENEFITS:

- No lubrication required
- Tolerates temperature extremes (-240°C to +260°C)
- Absorption of shock loads and vibration
- Handles up to 20 times more load than ball bearings
- Fully size interchangeable with industry standard sizes
- Does not catastrophically fail
- Requires no sealing
- Emits no particulates



APPLICATION EXAMPLES:

- Clean Rooms
- Semiconductor processing
- Medical
- Vacuums
- Scanning and input devices
- Textile machinery
- Packaging and material handling equipment
- Automotive assembly
- Fitness equipment

simplicity®



MINI-RAIL®

Self-lubricating miniature linear guide and slide systems, including lead screw configurations with hand crank or motor driven.

BENEFITS:

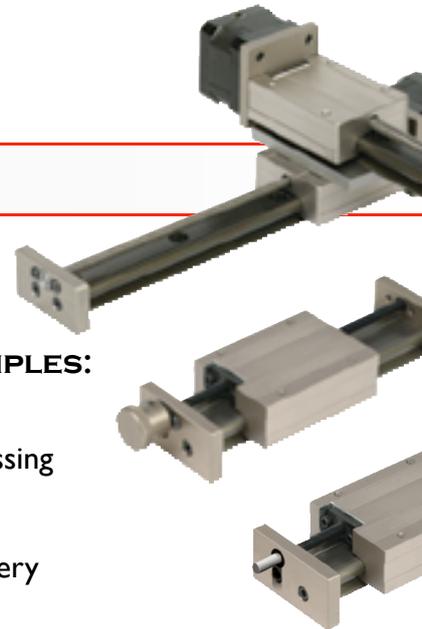
- Fully size interchangeable with industry standard sizes
- Lengths up to 3600 mm (12 ft.)
- Tolerates temperature extremes (-240°C to +260°C)
- No lubrication required
- Requires no sealing
- Emits no particulates



APPLICATION EXAMPLES:

- Clean Rooms
- Semiconductor processing
- Packaging machinery
- Pick and place machinery
- Material handling

**mini®
rail**



DOLPHIN GUIDES®

Two piece, self-lubricating guide/slide systems.

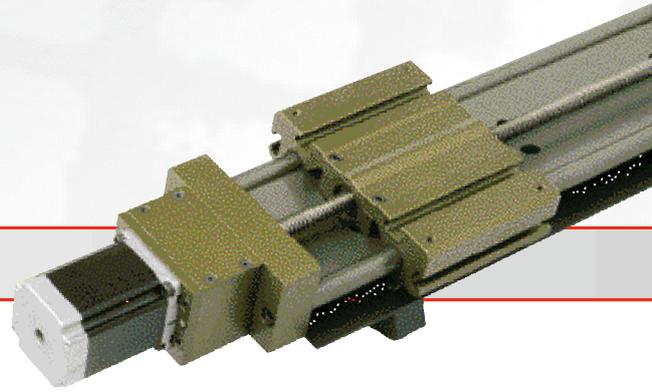
BENEFITS:

- 66% lighter than steel
- Simple design for fast, easy installation
- Lightweight, durable construction
- Mounting flexibility
- No lubrication required
- Tolerates temperature extremes
Available with lead screws, ball screws, belt driven - pneumatically or motor driven.



APPLICATION EXAMPLES:

- Medical
- Sorting, assembly and packaging equipment
- Semiconductor
- Postal automation
- Material handling



REDI-RAIL®

Rolling element linear slides/guides that include Drawer Slides for Industrial and Clean Room applications Belt Drive systems.

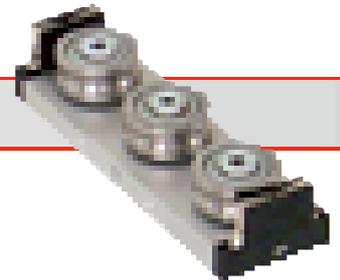
BENEFITS:

- Precision tolerances: +/- .025 mm over entire rail length
- Simple design for fast, easy installation
- Lightweight, durable construction
- Smooth and quiet motion up to 8 m/s



APPLICATION EXAMPLES:

- Medical
- Sorting, assembly and packaging equipment
- Door guides
- Semiconductor
- Postal automation
- Material handling
- Textile manufacturing
- Data retrieval



HEVI-RAIL®

Combination axial and radial load heavy-duty rolling element bearings and rails for applications with medium to low precision requirements.

BENEFITS:

- Economical assembly
- Bearing components are easily interchangeable
- Even dispersion of load



APPLICATION EXAMPLES:

- Telescoping application (ex. overhead extending jib crane)
- Warehouse handling systems
- Custom and standard lift units
- Large shrink-wrap machinery
- Steel and coil handling
- Large variety of material handling



SPECIALTY OEM PRODUCTS & SERVICES

Pacific Bearing brings our OEM customers over 20 years of engineering design and manufacturing experience for linear and radial motion products and systems. We welcome your custom design requirements.



The bottom line...

Pacific Bearing has the desire and comprehensive manufacturing capability to provide YOU with quality, reliable product - time and time again.

We'll be there for you!