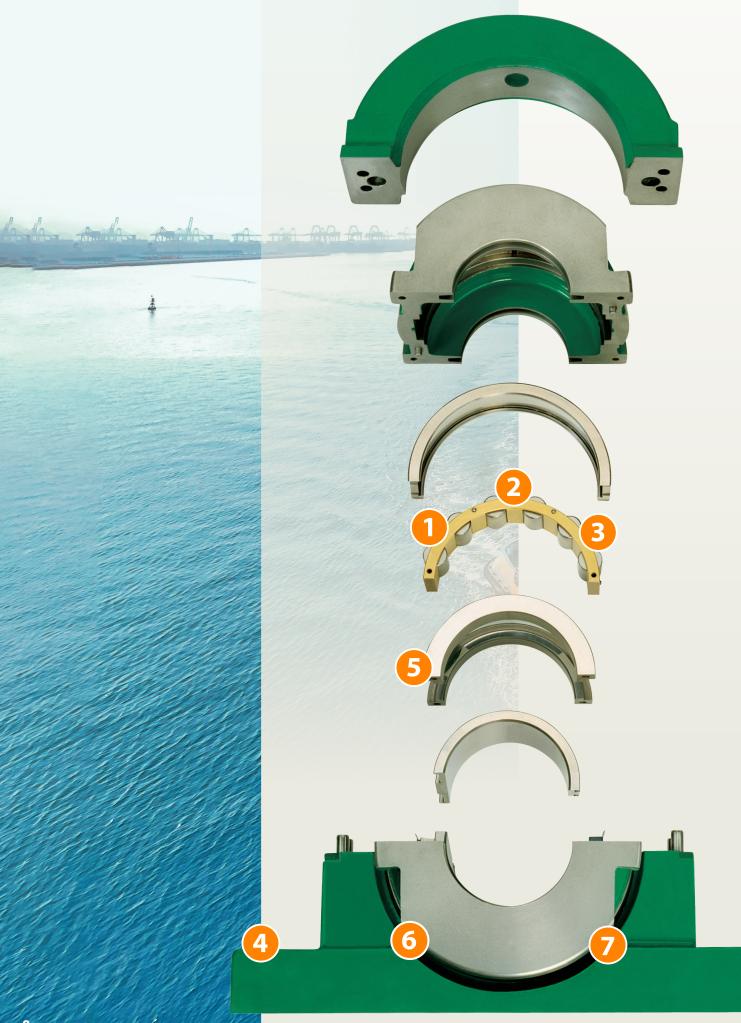


**Engineered Marine Solutions** 

# TIMKEN SPLIT CYLINDRICAL ROLLER BEARINGS

for Marine Propulsion

Stronger. By Design.





# **Maximize Service Life with Timken<sup>®</sup> Split Cylindrical Roller Bearings**

In Marine Propulsion maximizing service life is critical due to maintenance cost and downtime. With Timken® split roller bearings, propulsion shafts don't have to be completely removed to replace or service the bearings, which significantly reduces maintenance time.

The complete range of Timken split roller bearings incorporate a number of innovative features that offer improved performance. From concept to production, throughout the life cycle of the unit, Timken's split roller bearing range has been designed to maximize the service life of every component.

### Machined-Brass Cage

- Accommodates higher speeds and temperatures
- Stands up to acceleration forces
- Reduces noise



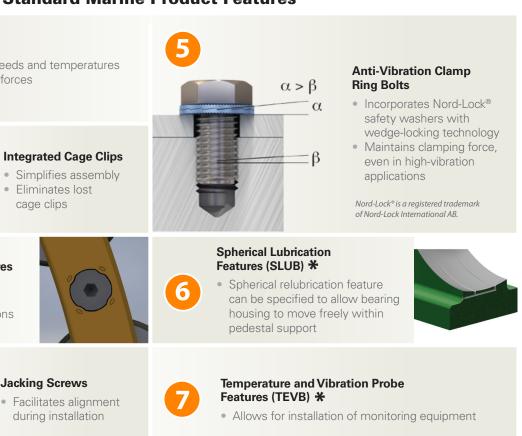
### **Integrated Cage Clips**

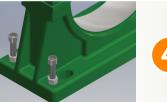
cage clips

**Anti-Vibration Cage Features** 



 Cage peening ensures long-term cage reliability on high-vibration applications





## **Jacking Screws**

during installation

### **Standard Marine Product Features**



# **Benefits of Split Cylindrical Roller Bearings**

At Timken, we have a detailed understanding of the marine industry's bearing requirements. This includes our innovative split cylindrical roller bearing range, which are essential components in a marine propulsion drive.

A desire to bring continuous improvement to this critical product line has led to the development of our new marine specification split roller bearing range.

### **Maintenance Friendly**

- Split design minimizes replacement downtime
- Saves time and money compared to solid roller or sleeve bearings

### **Easy Installation**

• Alignment challenges simplified • Housing accepts up to 3 degrees of shaft misalignment

### **Simple In-Service Inspection**

- All critical components can be easily inspected
- No need for realignment following inspection

### **Constant Alignment**

- Optional spherical relubrication (SLUB) allows bearing housing to move within pedestal support
- Maintains shaft and bearing alignment during hull flexing



**Complete Housing and Bearing** 



#### **Multi-Vessel Applications**

• Split roller propulsion bearings are used on a diverse range of marine vessels including ferries, offshore support vessels, tugs, workboats and ice-breakers

**High-Performance Sealing Solutions** 

even with shaft misalignment

corrosive salt water

• Split cylindrical roller bearing seals are

designed to be constantly concentric

with the shaft for high performance,

• All seals are designed to retain lubricant

and resist exterior contamination and

• Bearing are designed with either conventional propulsion shafts or waterjet drive stems



# **Support When You Need It**

In addition to the heritage and proven performance of our Timken split cylindrical roller bearings, we also offer technical, logistical and after-sales support for both users and specifiers of marine propulsion bearings, including:

#### **Cellular Manufacturing**

• Ensures production flexibility for standard and customized products

### **Customized Design Service**

### **Specialist and Customized Products**

Timken products have been designed and developed to maximize service life and minimize maintenance effort.

Machined brass cages with unique single piece clips come standard, and the rolling elements are profiled to minimize damaging edge stresses while providing optimum rolling contact.

### **An Angle on Performance**

Timken<sup>®</sup> Quick-Fit<sup>™</sup> split cylindrical roller bearings are engineered for reliability and performance. They reduce downtime and service costs required to install, replace and maintain bearings in difficult-to-access or trapped locations.

Since 2011, the first-of-its-kind angled support pedestal of mounted Quick-Fit bearings makes installation even easier for applications with low clearance between the base and the center of the shaft. The angled pedestal allows the drive to stay connected during installation. There's no need to re-position or lift the shaft.





• Supported by experienced design and bearing application engineers

### Local Availability

- Improves product availability and reduces delivery times
- Local service and support through authorized distributor networks

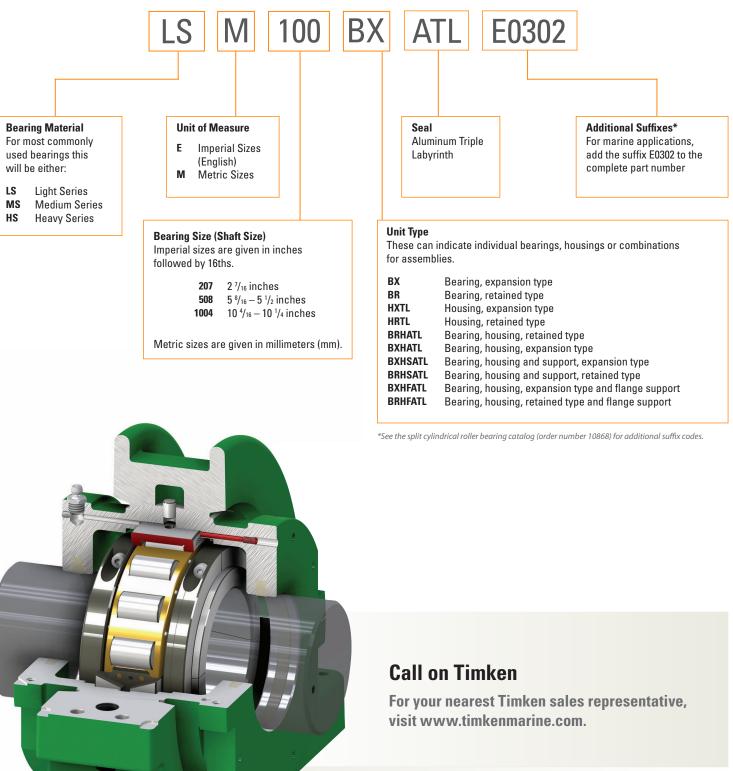
All supports and housings incorporate pry slots and doweled machined joints for easy separation. Supports are manufactured from high-strength cast iron and feature double webs and thick sections. The high rigidity and inherent strength enhances

For marine applications, we add features to accommodate high vibrations and initial alignment on an uneven mounting surface.

# INTERCHANGE

## NOMENCLATURE

	Marine Complete Units Interchange	
Craft Part Number	Cooper Part Number	Timken Part Number
S1BCH515FL	01BCP515EXAT	LSE515BXHSATLE0302
S1BCH600FL	01BCP600EXAT	LSE600BXHSATLE0302
S1BCH700FL	01EBCP700EXAT	LSE700BXHSATLE0302
S1BCH800FL	01EBCP800EXAT	LSE800BXHSATLE0302
S1BCH808FL	01EBCP808EXAT	LSE808BXHSATLE0302
S1BCH900FL	01EBCP900EXAT	LSE900BXHSATLE0302
S1BCH908FL	01EBCP908EXAT	LSE908BXHSATLE0302
S1BCH1000FL	01EBCP1000EXAT	LSE1000BXHSATLE0302
S1BCH1008FL	01EBCP1008EXAT	LSE1008BXHSATLE0302
S1BCH1100FL	01EBCP1100EXAT	LSE1100BXHSATLE0302
S1BCH1108FL	01EBCP1108EXAT	LSE1108BXHSATLE0302
S1BCH1200FL	01EBCP1200EXAT	LSE1200BXHSATLE0302
S1BCH1300FL	01EBCP1300EXAT	LSE1300BXHSATLE0302
	Bearing and Cartridge	
Craft Part Number	Cooper Part Number	Timken Part Number
S1BC515FL	01BC515EXAT	LSE515BXHATLE0302
S1BC600FL	01BC600EXAT	LSE600BXHATLE0302
S1BC700FL	01EBC700EXAT	LSE700BXHATLE0302
S1BC800FL	01EBC800EXAT	LSE800BXHATLE0302
S1BC808FL	01EBC808EXAT	LSE808BXHATLE0302
S1BC900FL	01EBC900EXAT	LSE900BXHATLE0302
S1BC908FL	01EBC908EXAT	LSE908BXHATLE0302
S1BC1000FL	01EBC1000EXAT	LSE1000BXHATLE0302
S1BC1008FL	01EBC1008EXAT	LSE1008BXHATLE0302
S1BC1100FL	01EBC1100EXAT	LSE1100BXHATLE0302
S1BC1108FL	01EBC1108EXAT	LSE1108BXHATLE0302
S1BC1200FL	01EBC1200EXAT	LSE1200BXHATLE0302
	Bearing Only	
Craft Part Number	Cooper Part Number	Timken Part Number
S1B515FL	01B515EXAT	LSE515BXE0302
S1B600FL	01B600EXAT	LSE600BXE0302
S1B600FL S1B700FL		LSE600BXE0302
	01B600EXAT 01EB700EXAT 01EB800EXAT	
S1B700FL S1B800FL	01EB700EXAT	LSE700BXE0302
S1B700FL S1B800FL S1B808FL	01EB700EXAT 01EB800EXAT 01EB808EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302
S1B700FL S1B800FL S1B808FL S1B900FL	01EB700EXAT 01EB800EXAT 01EB808EXAT 01EB900EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302 LSE900BXE0302
S1B700FL S1B800FL S1B808FL	01EB700EXAT 01EB800EXAT 01EB808EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302
S1B700FL S1B800FL S1B808FL S1B900FL S1B908FL S1B1000FL	01EB700EXAT 01EB800EXAT 01EB808EXAT 01EB900EXAT 01EB908EXAT 01EB1000EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302 LSE900BXE0302 LSE908BXE0302 LSE1000BXE0302
S1B700FL S1B800FL S1B808FL S1B900FL S1B908FL	01EB700EXAT 01EB800EXAT 01EB808EXAT 01EB900EXAT 01EB908EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302 LSE900BXE0302 LSE908BXE0302
S1B700FL S1B800FL S1B808FL S1B900FL S1B908FL S1B1000FL S1B1008FL	01EB700EXAT 01EB800EXAT 01EB808EXAT 01EB900EXAT 01EB908EXAT 01EB1000EXAT 01EB1008EXAT 01EB1100EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302 LSE900BXE0302 LSE908BXE0302 LSE1000BXE0302 LSE1008BXE0302
S1B700FL   S1B800FL   S1B808FL   S1B900FL   S1B908FL   S1B1000FL   S1B1008FL   S1B1008FL   S1B100FL	01EB700EXAT 01EB800EXAT 01EB808EXAT 01EB900EXAT 01EB908EXAT 01EB1000EXAT 01EB1008EXAT	LSE700BXE0302 LSE800BXE0302 LSE808BXE0302 LSE900BXE0302 LSE908BXE0302 LSE1000BXE0302 LSE1008BXE0302 LSE1008BXE0302





The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related power transmission rebuild and repair services.

## Stronger. By Design.

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