

## Double-Row Ball Screw Support Bearing Interchange

**TIMKEN®**  
**Torrington® Fafnir®**



When you choose Timken® Fafnir® bearings for your ball screw applications, you receive products made from world-class steel specifications and backed by a global leader known for quality, reliability and performance. Quality begins long before our machine tool bearings are manufactured and extends long after they are installed. We design bearings for optimum performance and long life, helping to maximize your initial investment and minimize your replacement costs.

### Timken® Fafnir® bearings offer a variety of benefits:

- Clean steel for longer service life
- Tighter preload tolerances for chatter-free cutting
- ABEC 9/ISO P2 axial running tolerances for higher accuracy
- Tighter width tolerances for easy fit without regrinding end caps
- Prelubricated with high-performance grease
- Broad availability for increased machine uptime

### Flanged Series

#### ZKLF / MMF SERIES

| INA           | Timken           |
|---------------|------------------|
| ZKLF1255.2RS  | MMF512BS55PP DM  |
| ZKLF1560.2RS  | MMF515BS60PP DM  |
| ZKLF1762.2RS  | MMF517BS62PP DM  |
| ZKLF2068.2RS  | MMF520BS68PP DM  |
| ZKLF2575.2RS  | MMF525BS75PP DM  |
| ZKLF3080.2RS  | MMF530BS80PP DM  |
| ZKLF3590.2RS  | MMF535BS90PP DM  |
| ZKLF40100.2RS | MMF540BS100PP DM |
| ZKLF50115.2RS | MMF550BS115PP DM |
| ZKLF50140.2RS | MMF550BS140PP DM |
| ZKLF60145.2RS | MMF560BS145PP DM |

### Non-Flanged Series

#### ZKLN / MMN SERIES



| INA           | Timken           |
|---------------|------------------|
| ZKLN1242.2RS  | MMN512BS42PP DM  |
| ZKLN1545.2RS  | MMN515BS45PP DM  |
| ZKLN1747.2RS  | MMN517BS47PP DM  |
| ZKLN2052.2RS  | MMN520BS52PP DM  |
| ZKLN2557.2RS  | MMN525BS57PP DM  |
| ZKLN3062.2RS  | MMN530BS62PP DM  |
| ZKLN3572.2RS  | MMN535BS72PP DM  |
| ZKLN4075.2RS  | MMN540BS75PP DM  |
| ZKLN5090.2RS  | MMN550BS90PP DM  |
| ZKLN50110.2RS | MMN550BS110PP DM |
| ZKLN60110.2RS | MMN560BS110PP DM |

Timken Closure Nomenclature – Shield: DD = INA .2Z , Seal: PP = INA .2RS  
Timken Quad Nomenclature – QM = INA 2AP

Less Friction. More **Solutions**

# Single-Row Ball Screw Support Bearing Interchange

| Bore    | OD     | Width<br>Single |
|---------|--------|-----------------|
| mm      | mm     | mm              |
| 12      | 32     | 10              |
| 15      | 35     | 11              |
| 17      | 40     | 12              |
| 17      | 47     | 15              |
| 20      | 47     | 15              |
| 20      | 47     | 15,875          |
| 23,838  | 62     | 15,875          |
| 25      | 52     | 15              |
| 25      | 62     | 15              |
| 30      | 62     | 15              |
| 30      | 72     | 15              |
| 35      | 72     | 15              |
| 35      | 100    | 20              |
| 38,100  | 72     | 15,875          |
| 40      | 72     | 15              |
| 40      | 90     | 15              |
| 40      | 90     | 20              |
| 40      | 90     | 23              |
| 40      | 100    | 20              |
| 44,475  | 76,200 | 15,875          |
| 45      | 75     | 15              |
| 45      | 100    | 20              |
| 50      | 90     | 15              |
| 50      | 100    | 20              |
| 55      | 90     | 15              |
| 55      | 120    | 20              |
| 57,150  | 90     | 15,875          |
| 60      | 120    | 20              |
| 75      | 110    | 15              |
| 76,200  | 110    | 15,875          |
| 100     | 150    | 20              |
| 101,600 | 145    | 22,225          |

-  New expanded sizes
-  Reactivated sizes

| Timken   | FAG  | BARDEN   | NSK  | SKF  | NTN  | SNFA  |
|--|--|--|--|--|--|---|
| MM12BS32DUH  | 7602012TVP   |  |  | BSA201C / DB B   |  | BS 212 DD   |
| MM15BS35DUH  | 7602015TVP   |  |  | BSA202C / DB B   |  | BS 215 DD   |
| MM17BS40DUH  | 7602017TVP   |  |  |  |  | BS 217 DD   |
| MM17BS47DUH  |  |  | 17TAC47B DB C10  |  | BST17X 47-1B DF P4   |   |
| MM20BS47DUH  | BSB020047T   |  | 20TAC47B DB C10  | BSD2047C / DB B  | BST20X 47-1B DF P4   | BS 20/47 DD   |
| MM9306WI2H DUH   |  | L078H DF   | 20TAC47XB DB C11   | BDAB634200C / DB B   |  |   |
| MM9308WI2H DUH   |  | L093H DF   | 23TAC62B DB C11  | BDAB634201C / DB B   |  |   |
| MM25BS52DUH  | 7602025TVP   |  |  | BSA205C / DB B   |  | BS 225 DD   |
| MM25BS62DUH  | BSB025062T   |  | 25TAC62B DB C10  | BSD2562C / DB B  | BST25X 62-1B DF P4   | BS 25/62 DD   |
| MM30BS62DUH  | BSB030062T   |  | 30TAC62B DB C10  | BSD3062C / DB B  | BST30X 62-1B DF P4   | BS 30/62 DD   |
| MM30BS72DUH  |  |  |  |  |  |   |
| MM35BS72DUH  | BSB035072T   |  | 35TAC72B DB C10  | BSD3572C / DB B  | BST35X 72-1B DF P4   | BS 35/72 DD   |
| MM35BS100DUH   |  |  |  |  |  |   |
| MM9310WI2H DUH   |  | L150H DF   | 38TAC72B DB C11  | BDAB634202C / DB B   |  |   |
| MM40BS72DUH  | BSB040072T   |  | 40TAC72B DB C10  | BSD4072C / DB B  | BST40X 72-1B DF P4   |   |
| MM40BS90DUH  |  |  |  |  |  |   |
| MM40BS90-20DUH   | BSB040090T   |  | 40TAC90B DB C10  | BSD4090C / DB B  | BST40X 90-1B DF P4   |   |
| MM40BS90-23DUH   | 7603040TVP   |  |  | BSA308C / DB B   |  |   |
| MM40BS100DUH   |  |  |  |  |  |   |
| MM9311WI3H DUH   |  | L175H DF   | 44TAC76B DB C11  | BDAB634203C / DB B   |  |   |
| MM45BS75DUH  | BSB045075T   |  | 45TAC75B DB C10  | BSD4575C / DB B  | BST45X 75-1B DF P4   |   |
| MM45BS100DUH   | BSB045100T   |  | 45TAC100B DB C10   | BSD45100C / DB B   | BST45X 100-1B DF P4  |   |
| MM50BS90DUH  |  |  |  |  |  |   |
| MM50BS100DUH   | BSB050100T   |  | 50TAC100B DB C10   | BSD50100C / DB B   | BST50X 100-1B DF P4  |   |
| MM55BS90DUH  | BSB055090T   |  |  |  |  |   |
| MM55BS120DUH   | BSB055120T   |  | 55TAC120B DB C10   |  | BST55X 120-1B DF P4  |   |
| MM9313WI5H DUH   |  | L225H DF   | 57TAC90A DB C11  |  |  |   |
| MM60BS120DUH   | BSB060120T   |  | 60TAC120B DB C10   |  | BST60X 120-1B DF P4  |   |
| MM75BS110DUH   | BSB075110T   |  |  |  |  |   |
| MM9316WI3H DUH   |  | L300H DF   | 76TAC110A DB C11   |  |  |   |
| MM100BS150DUH  |  |  |  |  |  |   |
| MM9321WI3DUH   |  |  | 101TAC145A DB C11  |  |  |   |
| Suffix:<br>D (two bearings)<br>T (three bearings)<br>Q (four bearings) | Suffix:<br>sold as single row<br>bearings only (SU)<br>Order 2 for duplex set<br>Order 3 for triplex set<br>Order 4 for quad set | Suffix:<br>DB (back-to-back)<br>DF (face-to-face)<br>DT (tandem) | Suffix:<br>DB (back-to-back)<br>DF (face-to-face)<br>DT (tandem) | Suffix:<br>/ DB (back-to-back)<br>/ DF (face-to-face)<br>/ DT (tandem) | Suffix:<br>pairs sold as DF<br>(equiv to universal<br>duplex 'DU' set) | Suffix:<br>DD (back-to-back)<br>FF (face-to-face)<br>T (tandem) |

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