



NTN complements its mounted unit offering with Bower® Type E Bearing Units

NTN Bearing Corporation of Canada Limited, a leading producer of premium quality ball and roller bearings, today announced the addition of the Bower Type E bearing unit to its product offering. Bower Type E bearing units have been designed to meet the most demanding applications and deliver superior performance.

"We are excited to introduce the Bower Type E bearing unit," said Paul Meo, President and CEO of NTN Bearing Corporation of Canada Ltd. "Listening to our customers' needs and acting swiftly to fulfill them has led to NTN's fast growth in the bearing unit market. The Bower Type E bearing unit is an exceptional addition to our product offering that will deliver superior performance in demanding industries such as aggregate, wood processing, mining, cement, steel, water treatment, and construction."

The Bower Type E bearing unit incorporates a one-piece sturdy cast iron housing with elongated mounting slots and features a spherical roller bearing insert that allows for +/- 2 degrees of misalignment. Bower Type E units also feature a set screw locking collar, machined brass retainer, double-lip heavy contact seal with metal shield, and an extended inner ring. Bower Type E units are available in sizes ranging from 1 ⁷/₁₆ to 4 ¹⁵/₁₆ pillow blocks and either 2-bolt or 4-bolt configurations. The Bower Type E housing footprint is a direct drop-in interchange with other Type E pillow block units. Since the spring of 2018, NTN has conducted 11 trials of Bower Type E at various end user locations and Bower Type E has run without issues at each location for 16+ months, a minimum of 2.5x longer service life than the bearings we replaced.

The functions and features of the Bower Type E bearing unit include:

- One-piece, sturdy cast iron housing to withstand demanding applications
- Threaded housing covers keep bearing clearance set and provide great seal support
- Self-aligning, double-row spherical roller bearing allows for easy alignment and can handle +/- 2° of misalignment
- Set screw locking collar secures the inner ring to the shaft
- Machined brass retainer with offset pockets results in cage stiffness for high vibratory applications
- Elongated mounting slots for versatile mounting configurations
- Double-lip seal molded onto a metal shield provides superior sealing performance in extreme environments

To learn more about the Bower Type E product line, please contact your NTN sales representative. You can also access additional information about Bower Type E at www.ntn.ca.

FREQUENTLY ASKED QUESTIONS Bower® Type E Bearing Units

Q: What are some of the typical industries and applications for the Bower® Type E Bearing Unit?

A: Forestry, mines, quarries, metals, cement works, any sectors that make use of conveyors, material handling and heavy equipment that require a low base to center height heavy duty roller bearing unit. The Bower® Type E Bearing Unit is marketed via industrial distribution and to original equipment manufacturers.

Q: What exactly is the Bower® Type E Bearing Unit?

A: The Bower® Type E housing footprint is a direct drop-in interchange with other Type E pillow block unit dimensional standards. The one-piece housing incorporates a double-row spherical roller bearing with a machined brass cage and a two-piece outer ring which ultimately allows for an industry leading dynamic misalignment of +/- 2°. A double-lip contact seal made from nitrile rubber molded onto a metal guard for extra protection is supplied as standard. The inner ring affixes to the shaft using two setscrews on a single mounting collar and bore sizes larger than 4 7/16 inch use two mounting collars, one on each side of the inner ring. This style of locking device allows the unit to have a lower base to center height for the same shaft size when compared to split series SAF or SN housing styles. Fully assembled, pre-lubricated, and set with a C3 standard factory internal clearance, pillow blocks with common bore sizes 1 7/16, 1 15/16, 2 3/16, 2 7/16, 2 15/16, 3 7/16, 3 15/16, 4 15/16 inch are currently available.

Q: What tests were carried out before the Bower® Type E Bearing Unit was launched in the market?

A: Bower® Type E Bearing Units were tested in actual real-life Forestry, Mining, and various industry applications. The NTN Engineering and Service group worked with end users on specific problematic applications with bearings that were typically failing every 2 to 3 months. After 16 months of service, the Bower® Type E Bearings continued to work successfully, proving that the unit could contribute further to NTN's solutions oriented heavy duty offering. In one example, a leading manufacturer and supplier of high-quality sorbent products was experiencing production-altering bearing failures. In the first year alone, a savings of \$157,500 was attributed to uptime, and further reductions in maintenance and acquisition costs of \$3,766 were realized amounting to a total annualized cost savings of \$161,266. The maintenance staff have been so pleased with NTN's Bower® Type E Bearing Units that they plan to convert all other Type E applications to Bower Type E units.

Q: Why has NTN introduced the Bower® Type E Bearing Unit?

A: NTN has one of the most comprehensive premium quality housed bearing unit offerings which include our Green Line, ULTRA CLASS™, SENTINEL™, ULTAGE SPW, ULTAGE SAFD and SNC heavy duty series. NTN-Bower recognized the demand from industry for a low base to center heavy duty roller bearing unit along with increased misalignment capability and a requirement to expand NTN's bearing unit family, the result is the Bower® Type E Bearing Unit.

Q: What is the Bower® Type E Bearing Unit part number designation?

A: Bower® Type E Bearing Unit designations are very easy to understand. They are designated by **EPB** for Type **E** Pillow **B**lock followed by the number of bolts, 2 or 4, followed by the inch bore size in 16th of an inch.

BOWER TYPE E NOMENCLATURE SYSTEM



| 1. HOUSING | |
|---------------------------------|--------------|
| E: Type E dimensions | |
| 2. HOUSING CONFIGURATION | |
| PB: Pillow block, cast iron | |
| 3. MOUNTING BOLTS CONFIGURATION | |
| 2: Two-bolt | 4: Four-bolt |

| 4. BORE SIZE DESIGNATION | |
|--------------------------|-------------------|
| 107: 1 7/16 inch | 307: 3 7/16 inch |
| 115: 1 15/16 inch | 315: 3 15/16 inch |
| 203: 2 3/16 inch | 407: 4 7/16 inch |
| 207: 2 7/16 inch | 415: 4 15/16 inch |
| 215: 2 15/16 inch | |

| Shaft Size inch | # of Bolts | Bower Type E Part # |
|-----------------|------------|---------------------|
| 1 7/16 | 2 | EPB2-107 |
| 1 15/16 | 2 | EPB2-115 |
| 2 3/16 | 2 | EPB2-203 |
| 2 7/16 | 2 | EPB2-207 |
| 2 7/16 | 4 | EPB4-207 |
| 2 15/16 | 2 | EPB2-215 |
| 2 15/16 | 4 | EPB4-215 |
| 3 7/16 | 2 | EPB2-307 |
| 3 7/16 | 4 | EPB4-307 |
| 3 15/16 | 4 | EPB4-315 |
| 4 7/16 | 4 | EPB4-407 |
| 4 15/16 | 4 | EPB4-415 |

