Collar-mount SKF roller bearing units SYR, FYR and FYRP

Features
- Factory assembled and lubricated units, ready for use
- Units available for located and non-located positions
- Wide range of different seal types available
- Drilled and tapped jacking holes in piloted flange units for removal (FYRP)
- Designed for good heat dissipation
- The design of SYR and FYR housings features flat pads that can be drilled and tapped for the attachment of condition monitoring sensors

Benefits
- One-piece ready-to-mount units for quick mounting
- Low risk for contamination or damage during handling and mounting, offering improved reliability and longer bearing service life
- Non-locating units allow for shaft expansion without preload of the bearings
- Suitable seal type available for virtually any application
- Reduced maintenance and easy to replace
- Good heat dissipation results in lower operating temperatures
- SYR and FYR housings can be drilled and tapped for attachment of condition monitoring sensors

Typical applications
- Material handling like conveyor systems
- Fluid machinery like fans and pumps
- Textile machines
- Agricultural machinery
- Forestry machinery
- Food processing machinery
- Waste water treatment equipment
- Mineral processing/cement

SKF collar-mounted roller bearing units are robust, ready-to-mount units that are designed to optimize performance and maximize service life. FYRP piloted flange units are available for shaft diameters ranging from 1 7/16 to 4 15/16 inch, SYR pillow (plummer) block units and FYR round flange units are available for shaft diameters ranging from 1 7/16 to 4 inch. SKF SYR and FYRP are dimensionally interchangeable with Browning (SPB 1000 series and SFC 1000 series).
Locking collar method
The locking collar method uses a collar mounted on the extended inner ring of the bearing (→ fig. 1). The extended inner ring has two holes, 62° apart. The collar has two mating tapped holes, each containing a set (grub) screw. When the set (grub) screws are fully tightened, the shaft is held firmly against the inner ring of the bearing.

SKF FYR flange units and FYRP piloted flange units

Simple mounting
The bearing units are positioned easily on the shaft by tightening the set screws in the locking collar (→ fig. 1). FYR flange units are mounted on a flat surface and the FYRP piloted round flange units are mounted in a pilot surface. FYRP unit has three tapped jacking holes for easy dismounting.

SKF SYR pillow units

Robust pillow block unit
The pillow block base is reinforced (→ fig. 2) around the attachment bolt holes to strengthen and minimize distortion of the bearing seat.

Simple, accurate mounting and alignment
Easy alignment; lines cast on the housing base ends indicate the centre of the bearing seat (→ fig. 3). The bearing units are easily located on the shaft by tightening the set screws in the locking collar (→ fig. 1).

Heat conduction
The pillow block base has a cast in central web (→ fig. 4) to improve heat flow from bearing to support surfaces.

Sealing options
Range of different sealing arrangements available

- Triple-lip seals and outboard trashguard (Trigard)
- Labyrinth seals
- Radial shaft seals (Garter spring seals)
- End plugs