

## Why SKF?

# ConCentra roller bearing units SYNT and FYNT series



SKF ConCentra roller bearing units are robust, ready-to-mount units that are assembled, lubricated and sealed at the factory ready for instant use. They are designed to optimize the performance and maximize the service life of the SKF Explorer series 222 spherical roller bearings used in them. With their quick and simple installation, easy alignment and reliable locking technology, they are an excellent alternative to adapter sleeve-mounted bearings in split housings. Available in two non-split housing series: a plummer block housing in the SYNT series and a flanged housing in the FYNT series. Bearing units available for the non-locating bearing position are designed to accommodate a degree of thermal expansion of the shaft. SKF ConCentra roller bearing units are available for shaft diameters ranging from 35 to 100 mm.

### Product features

- Unit assembled, lubricated and sealed at factory
- Effective sealing (SYNT series are available with different sealing solutions depending on the operating conditions)
- Stiff and robust housing made of high grade grey cast iron
- Concentric locking technology
- Machined to tight tolerances
- Housing designed for good heat dissipation
- Large areas to install condition monitoring equipment
- Can accommodate angular misalignment of up to 1,5°
- Alignment marks on base or flange simplify mounting
- Dimples indicate the recommended drilling positions for dowel pins if required
- FYNT has a machined centring recess, as standard, which can be used to centre the housing on a shoulder

### User benefits

- Ready-to-mount unit for quick mounting
- Low risk for contamination during mounting
- Easy replacement, only one part to order, store and mount
- Available with seals suitable for a wide range of operating conditions
- Optimize the performance and extend the service of the bearing
- Low maintenance costs
- Reduced vibrations for longer bearing service life
- Good heat dissipation reduces operating temperatures
- Easy to attach condition monitoring equipment
- Insensitive to misalignment during operation
- Simple mounting
- Attachment bolts are not subjected to shear force when FYNT units are mounted to a machined shoulder with close fit

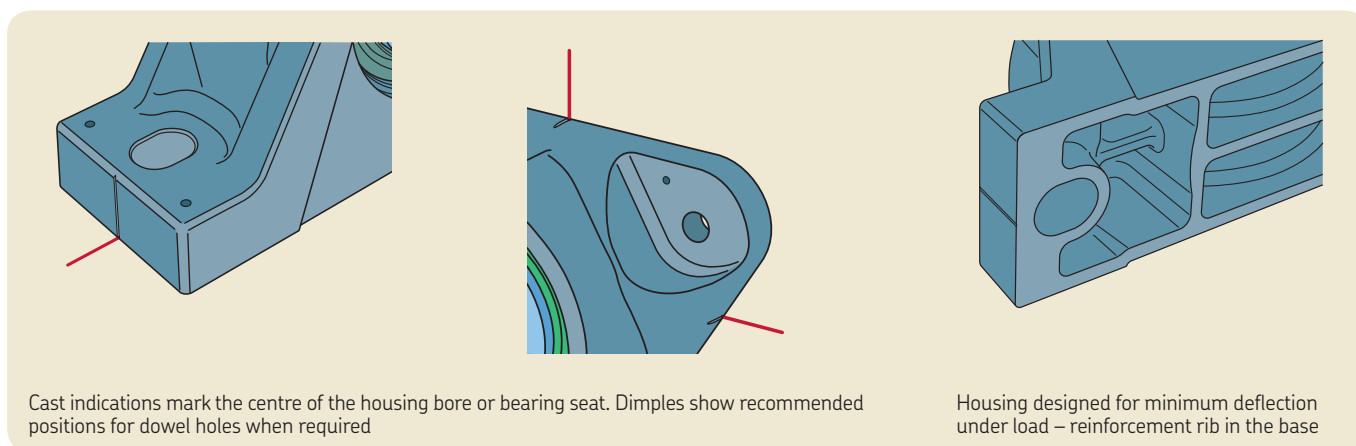
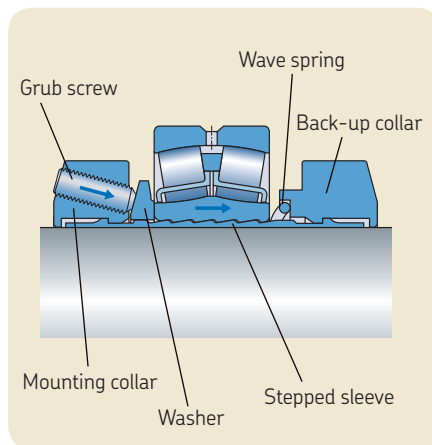
### Common applications

- Fans and blowers
- Elevators
- Lightly loaded conveyor systems
- Textile machines
- Industrial air handling systems
- Bailers
- Mixers, crushers and vibrating screens



## Concentric locking technology

The locking concept is based on two sets of inclined planes (serrations): one set in the bearing bore, the other on the stepped sleeve. When the grub screws in the mounting collar are tightened, the bearing is displaced axially, forcing the inner ring to expand. This does two things: it sets the correct internal clearance within the bearing and it exerts pressure on the stepped sleeve, forcing it to contract around the circumference of the shaft for a true concentric, tight fit.



SKF ConCentra roller bearing units are available in different variants, each optimized to accommodate certain applications. Roller bearing units in the SYNT series are available in all variants, while FYNT series roller bearing units are only available in the basic design.

### General variant

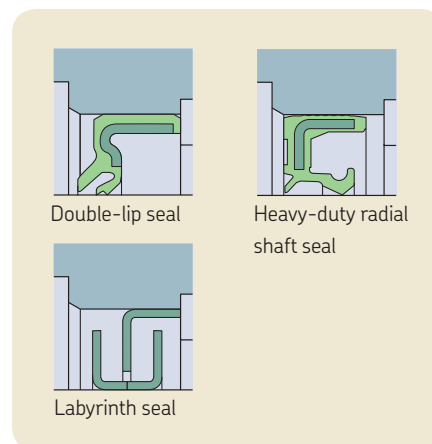
The basic design is suitable for normal to heavy loads in contaminated environments, e.g. textile machines. They are equipped with double-lip seals on each side.

### High-speed variant

These units are equipped with labyrinth seals and are suitable for normal to heavy loads in relatively clean to normal environments, e.g. industrial fans and blowers. The designation suffix is TS.

### Heavy-duty variant

These units are equipped with heavy-duty radial shaft seals. They are suitable for normal to heavy loads in extremely contaminated environments, e.g. outdoor conveyors. The designation suffix is TF.



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