

Y-TECH bearing units

Lightweight, cost-effective and virtually maintenance-free



Reduce total cost of ownership with SKF Y-TECH bearing units

SKF Y-TECH bearing units are part of SKF's extensive line of mounted products. These lightweight, cost-effective and ready-to-mount units are particularly well-suited for applications where there are relatively high speeds and moderate loads and where reliability and minimal maintenance are key parameters.

A unique housing

Y-TECH bearing units feature a composite housing made from a glass fibre reinforced polyamide material. These lightweight housings resist a variety of chemicals and diluted acids. The holes for attachment bolts contain zinc-coated metal bushings to help prevent housing damage during installation.

The most unique feature of SKF Y-TECH housings is the steel coil moulded into the housing. The coil provides additional mechanical strength and thermal stability, which enables these housings to accommodate loads that exceed the static load carrying capacity of the bearing.

Relubrication-free

The sealed insert bearing is pre-lubricated for the life of the bearing with a lithium/calcium base grease. When the long lasting, water-resistant grease is combined with an appropriate sealing solution, these bearings can provide long, reliable service life without the time and cost of relubrication.

Other sealing solutions, bearing designs and materials

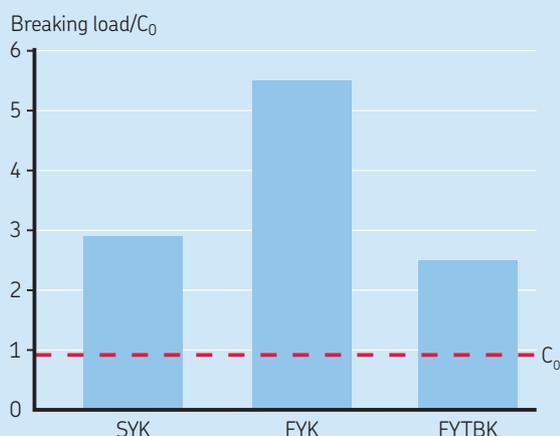
Two standard sealing solutions are available for Y-TECH ball bearing units. There are, however, five other options available. They range from non-contact seals for industrial

fans operating in relatively clean environments to the patented SKF 5-lip seals used in highly contaminated environments like agricultural applications.

SKF Y-TECH housings can be assembled with all available Y-bearing designs and materials including zinc coated and stainless steel bearings.

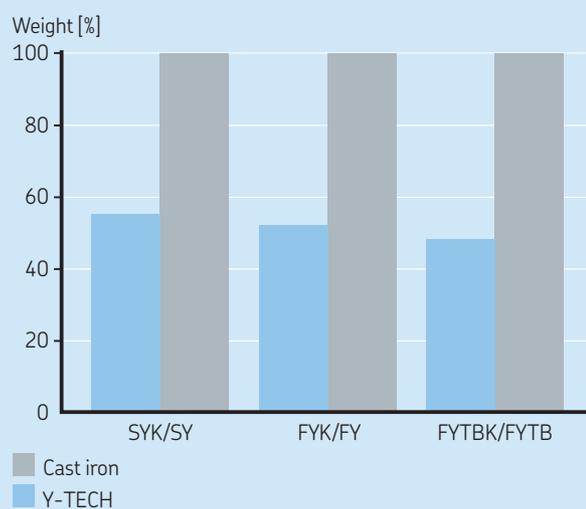
Additional information about seals, bearing designs and materials can be found in the SKF publication, *Y-bearings and Y-bearing units*.

Y-TECH breaking loads/ C_0 (20 mm bore)



The Y-TECH housing is strong enough than the bearing
NOTE: For more information on Y-TECH performances, contact your SKF representative

Y-TECH vs cast iron (20 mm bore)



Relubrication-free units contain a long lasting, high quality lithium/calcium base grease which, when combined with the seals, resists water wash-out.

The spherical outside surface of the bearing and matching housing bore accommodate initial misalignment up to 5°.

Housing highlights

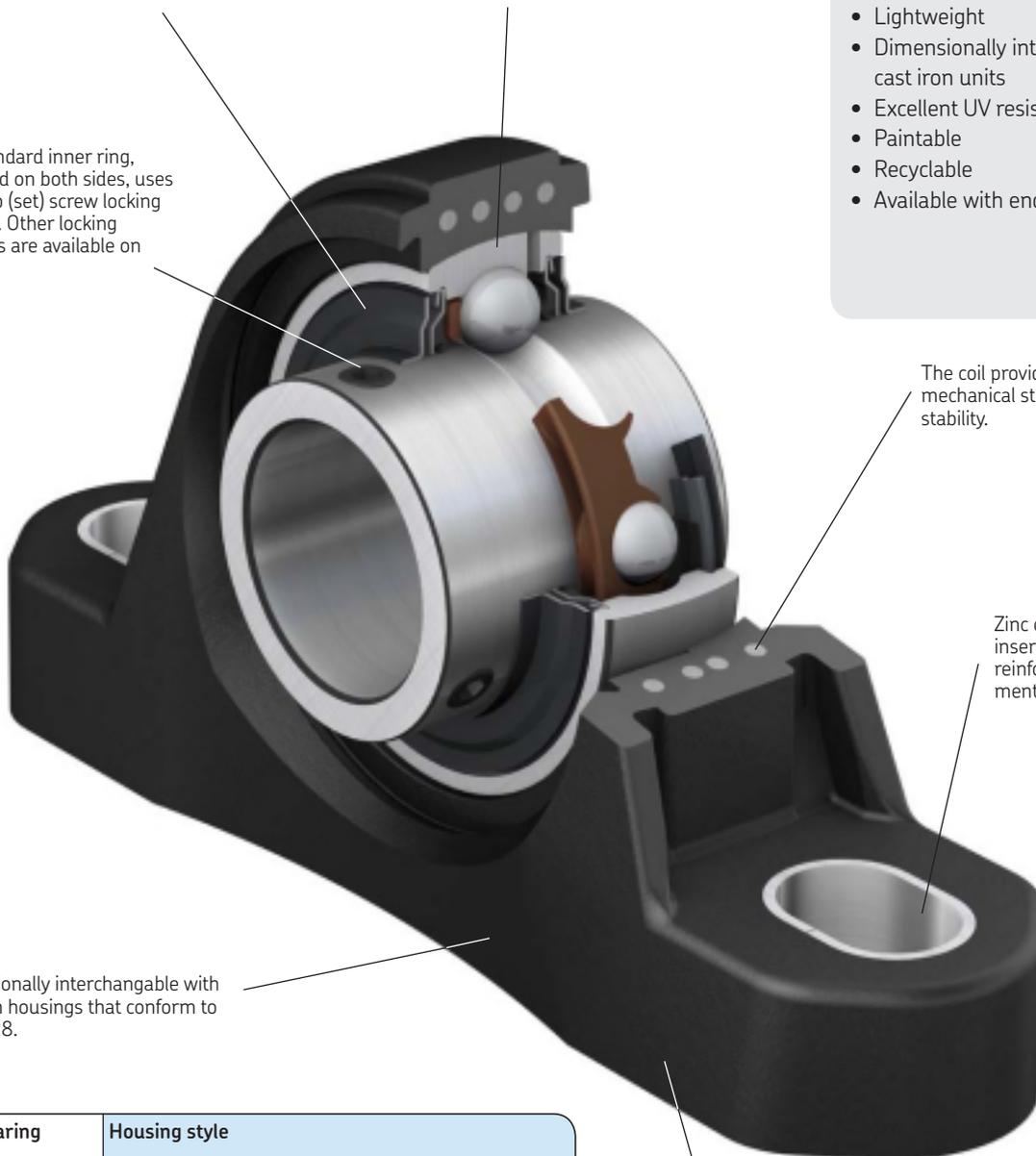
- Excellent corrosion resistance
- Tolerant of hot and cold temperatures
- Lightweight
- Dimensionally interchangeable with cast iron units
- Excellent UV resistance
- Paintable
- Recyclable
- Available with end covers

The standard inner ring, extended on both sides, uses the grub (set) screw locking method. Other locking methods are available on request.

The coil provides additional mechanical strength and thermal stability.

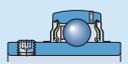
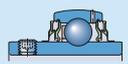
Zinc coated, Cr⁶⁺ free, steel inserts resist corrosion and reinforce the holes for attachment bolts.

Dimensionally interchangeable with cast iron housings that conform to ISO 3228.

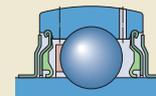


Material features

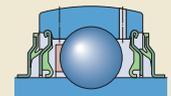
Up to 75% lighter than cast iron. Good resistance to chemicals and diluted acids.

Y-bearing unit	Housing style		
			
Y-bearings	SYK 5(00)	FYK 5(00)	FYTBK 5(00)
YAR 2-2F 	SYK .. TF 20-40 mm	FYK .. TF 20-40 mm <small>3/4-1 1/2 in.¹⁾</small>	FYTBK .. TF 20-35 mm <small>3/4-1 1/4 in.¹⁾</small>
YAR 2-2RF 	SYK .. TR 20-40 mm	FYK .. TR 20-40 mm <small>3/4-1 1/2 in.¹⁾</small>	FYTBK .. TR 20-35 mm <small>3/4-1 1/4 in.¹⁾</small>
All SKF Y-bearing designs and materials can be used with Y-TECH housings.			
<small>¹⁾ Parts must be ordered separately</small>			

Two standard sealing solutions. Other options available on request.



Medium duty 2F seal



Heavy duty 2RF seal



Agricultural machinery

SKF recommends the patented 5-lip seal for extremely contaminated environments.



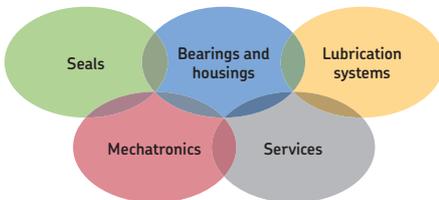
Material handling (Baggage handling system)

SKF recommends SKF Energy Efficient Y-bearings for clean to normal contamination conditions and where energy consumption is an important issue.



Industrial fan (low and medium duty)

SKF recommends SKF Energy Efficient Y-bearings for clean to normal contamination conditions and where energy consumption is an important issue.



The Power of Knowledge Engineering

Combining products, people, and application-specific knowledge, SKF delivers innovative solutions to equipment manufacturers and production facilities in every major industry worldwide. Having expertise in multiple competence areas supports SKF Life Cycle Management, a proven approach to improving equipment reliability, optimizing operational and energy efficiency and reducing total cost of ownership.

These competence areas include bearings and units, seals, lubrication systems, mechatronics, and a wide range of services, from 3-D computer modelling to cloud-based condition monitoring and asset management services.

SKF's global footprint provides SKF customers with uniform quality standards and worldwide product availability. Our local presence provides direct access to the experience, knowledge and ingenuity of SKF people.



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