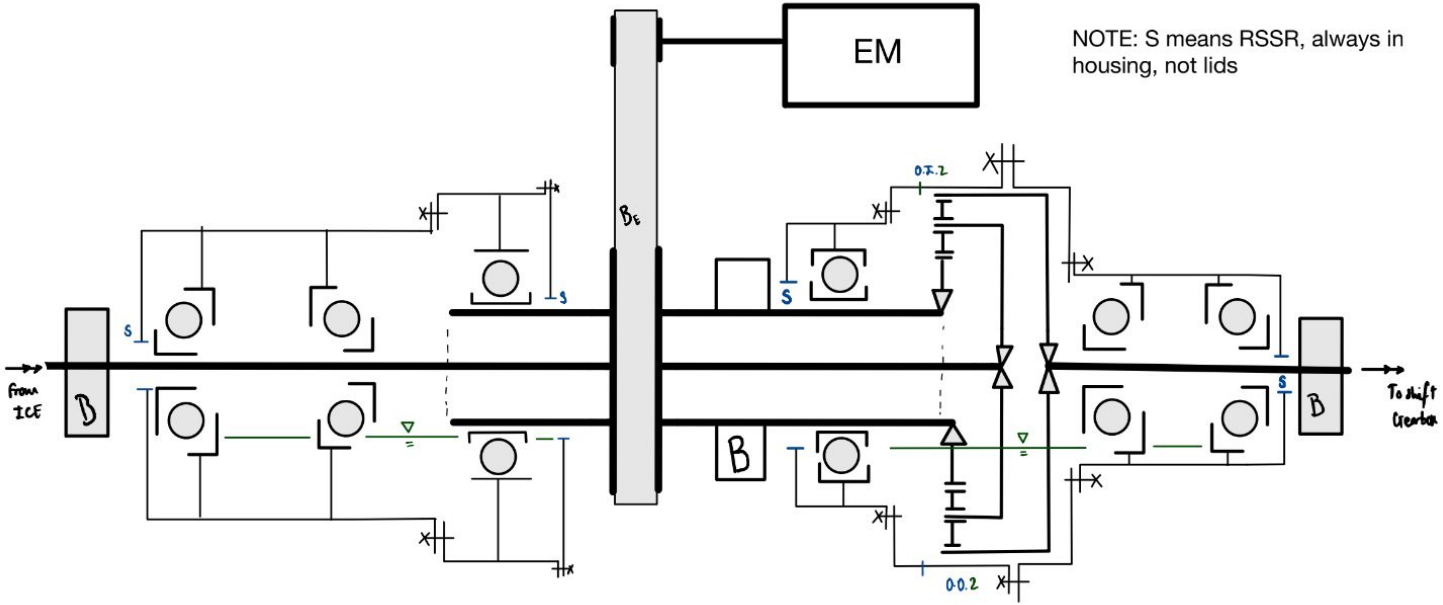
BEARING DIMENSIONING AND SELECTION



INPUT BEARINGS (ICE ENGINE)

Image may differ from product. See technical specification for details.

T7FC 055

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

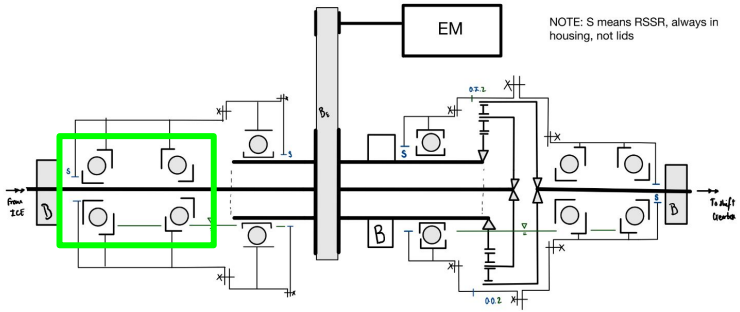
Designation	Principal dimensions			Basic load ratings		Speed ratings	
				dynamic	static	Reference speed	Limiting speed
	d [mm]	D [mm]	T [mm]	C [kN]	C_0 [kN]	[r/min]	[r/min]
T7FC 055	55	115	34	155	163	4 300	5 600

Performance

Basic dynamic load rating	155 kN
Basic static load rating	163 kN
Reference speed	4 300 r/min
Limiting speed	5 600 r/min
SKF performance class	SKF Explorer

Dimensions

Bore diameter	55 mm
Outside diameter	115 mm
Width, total	34 mm
Width, inner ring	31 mm
Width, outer ring	23.5 mm
Contact angle	30 °



OUTPUT BEARINGS

Image may differ from product. See technical specification for details.

30213

Single row tapered roller bearing

Single row tapered roller bearings are designed to accommodate combined radial and axial loads and provide low friction during operation. The inner ring, with rollers and cage, can be mounted separately from the outer ring. These separable and interchangeable components facilitate mounting, dismounting and maintenance. By mounting one single row tapered roller bearing against another and applying a preload, a rigid bearing application can be achieved.

- High radial and axial load carrying capacity
- Accommodate axial loads in one direction
- Low friction and long service life
- Separable and interchangeable components

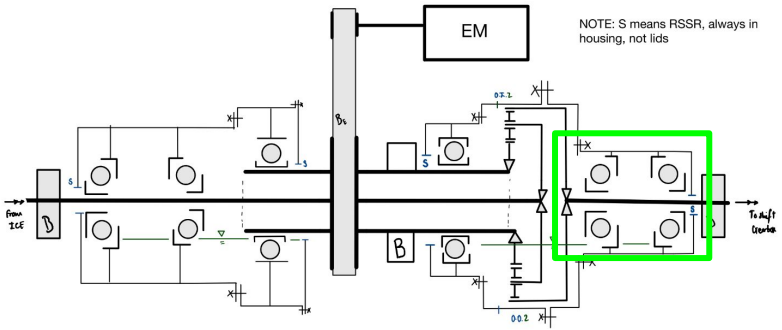
Designation	Principal dimensions			Basic load ratings		Speed ratings	
				dynamic	static	Reference speed	Limiting speed
	d [mm]	D [mm]	T [mm]	C [kN]	C_0 [kN]	[r/min]	[r/min]
☆ ■ 30213	65	120	24.75	141	134	4 500	5 600

Performance

Basic dynamic load rating	141 kN
Basic static load rating	134 kN
Reference speed	4 500 r/min
Limiting speed	5 600 r/min
SKF performance class	SKF Explorer

Dimensions

Bore diameter	65 mm
Outside diameter	120 mm
Width, total	24.75 mm
Width, inner ring	23 mm
Width, outer ring	20 mm
Contact angle	15.109 °



INPUT BEARING (ELECTRIC MOTOR SHAFT) - LOCATED

Image may differ from product. See technical specification for details.

6018

Deep groove ball bearing

Single row deep groove ball bearings are particularly versatile, have low friction and are optimized for low noise and low vibration, which enables high rotational speeds. They accommodate radial and axial loads in both directions, are easy to mount, and require less maintenance than many other bearing types.

- Simple, versatile and robust design
- Low friction
- High-speed capability
- Accommodate radial and axial loads in both directions
- Require little maintenance

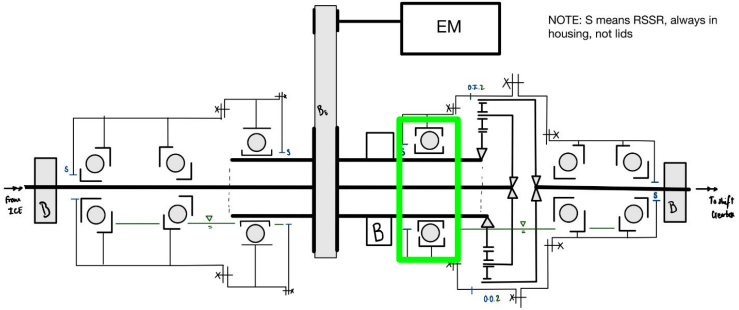
Designation	Principal dimensions			Basic load ratings		Speed ratings	
				dynamic	static	Reference speed	Limiting speed
	d [mm]	D [mm]	T [mm]	C [kN]	C_0 [kN]	[r/min]	[r/min]
☆ ■ 6018	90	140	24	60.5	50	10 000	6 300

Performance

Basic dynamic load rating	60.5 kN
Basic static load rating	50 kN
Reference speed	10 000 r/min
Limiting speed	6 300 r/min
SKF performance class	SKF Explorer

Dimensions

Bore diameter	90 mm
Outside diameter	140 mm
Width	24 mm



INPUT BEARING (ELECTRIC MOTOR SHAFT) - FLOATING

Image may differ from product. See technical specification for details.

NJ 1018 ML

Single row cylindrical roller bearing, NJ design

Single row cylindrical roller bearings are designed to accommodate high radial loads in combination with high speeds. Having two integral flanges on the outer ring and one on the inner ring, NJ design bearings can accommodate axial displacement in one direction. An important feature is the separable design, which facilitates mounting and enables the bearing components to be interchanged.

- High radial load carrying capacity
- Low friction
- Long service life
- Locate the shaft axially in one direction
- Separable design

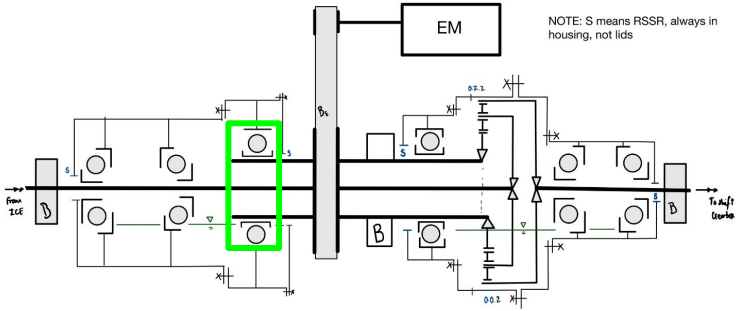
Designation	Principal dimensions			Basic load ratings		Speed ratings	
				dynamic	static	Reference speed	Limiting speed
	d [mm]	D [mm]	T [mm]	C [kN]	C_0 [kN]	[r/min]	[r/min]
NJ 1018 ML	90	140	24	93	104	5 600	8 500

Performance

Basic dynamic load rating	93 kN
Basic static load rating	104 kN
Reference speed	5 600 r/min
Limiting speed	8 500 r/min
SKF performance class	SKF Explorer

Dimensions

Bore diameter	90 mm
Outside diameter	140 mm
Width	24 mm



BEARINGS OF THE PLANET SHAFTS

Image may differ from product. See technical specification for details.

K 32X37X13

Single row needle roller and cage assembly

Needle roller and cage assemblies are self-contained, ready-to-mount bearings without inner and outer rings. In applications where the shaft and housing bore can serve as raceways, the assemblies can be used to create bearing arrangements that require minimal radial space. As the clearance of the bearing arrangement is only affected by the roller sorting and the finish of shaft and housing, very precise bearing arrangements can be achieved.

- High radial load carrying capacity
- High stiffness
- High precision
- Lowest cross-sectional height among rolling bearings
- Accommodate axial displacement in both directions

Designation	Principal dimensions			Basic load ratings		Speed ratings	
				dynamic	static	Reference speed	Limiting speed
	d [mm]	D [mm]	T [mm]	C [kN]	C_0 [kN]	[r/min]	[r/min]
K 32X37X13	32	37	13	14.7	25.5	13 000	14 000

Performance

Basic dynamic load rating	14.7 kN
Basic static load rating	25.5 kN
Reference speed	13 000 r/min
Limiting speed	14 000 r/min

Dimensions

Bore diameter of needle roller complement	32 mm
Outside diameter	37 mm
Outside diameter of needle roller complement	37 mm
Width	13 mm