

FAG



**FAG Special Spherical Roller Bearings
with Durotect® CK Coating in the Bore**

For Vibratory Machinery

SCHAEFFLER GROUP
INDUSTRIAL

FAG Spherical Roller Bearings for Vibratory Stresses

Operating conditions for FAG spherical roller bearings in vibratory machinery

Vibratory screens used for grading materials and other vibratory machinery are among the machines subjected to the most severe stresses.

FAG spherical roller bearings with Durotect® CK coating in the bore

In order to prevent friction corrosion between the bearing bore diameter and the shaft, FAG supplies spherical roller bearings with Durotect® CK coated bores.

This ensures that the possibility of displacement (non-locating bearing function) between the bearing bore and

shaft in response to thermal influences is maintained over and beyond a long period of operation.

The dimensions and tolerances of these bearings with Durotect® CK coated bores comply with DIN/ISO dimensions and are interchangeable.

Bearings 22317-E1-T41D through 22330-E1-T41D come with a Durotect® CK coated bore as standard.


Ordering example: 22320-E1-T41D


Advantages for vibratory machinery

- Higher operational reliability
- Prevention of damage to shafts
- Reduction in repair costs


Designation	Dimensions in mm		
	d	D	B
22317-E1-T41D	85	180	60
22318-E1-T41D	90	190	64
22319-E1-T41D	95	200	67
22320-E1-T41D	100	215	73
22322-E1-T41D	110	240	80
22324-E1-T41D	120	260	86
22326-E1-T41D	130	280	93
22328-E1-T41D	140	300	102
22330-E1-T41D	150	320	108


d = Bore diameter
D = Outside diameter
B = Width

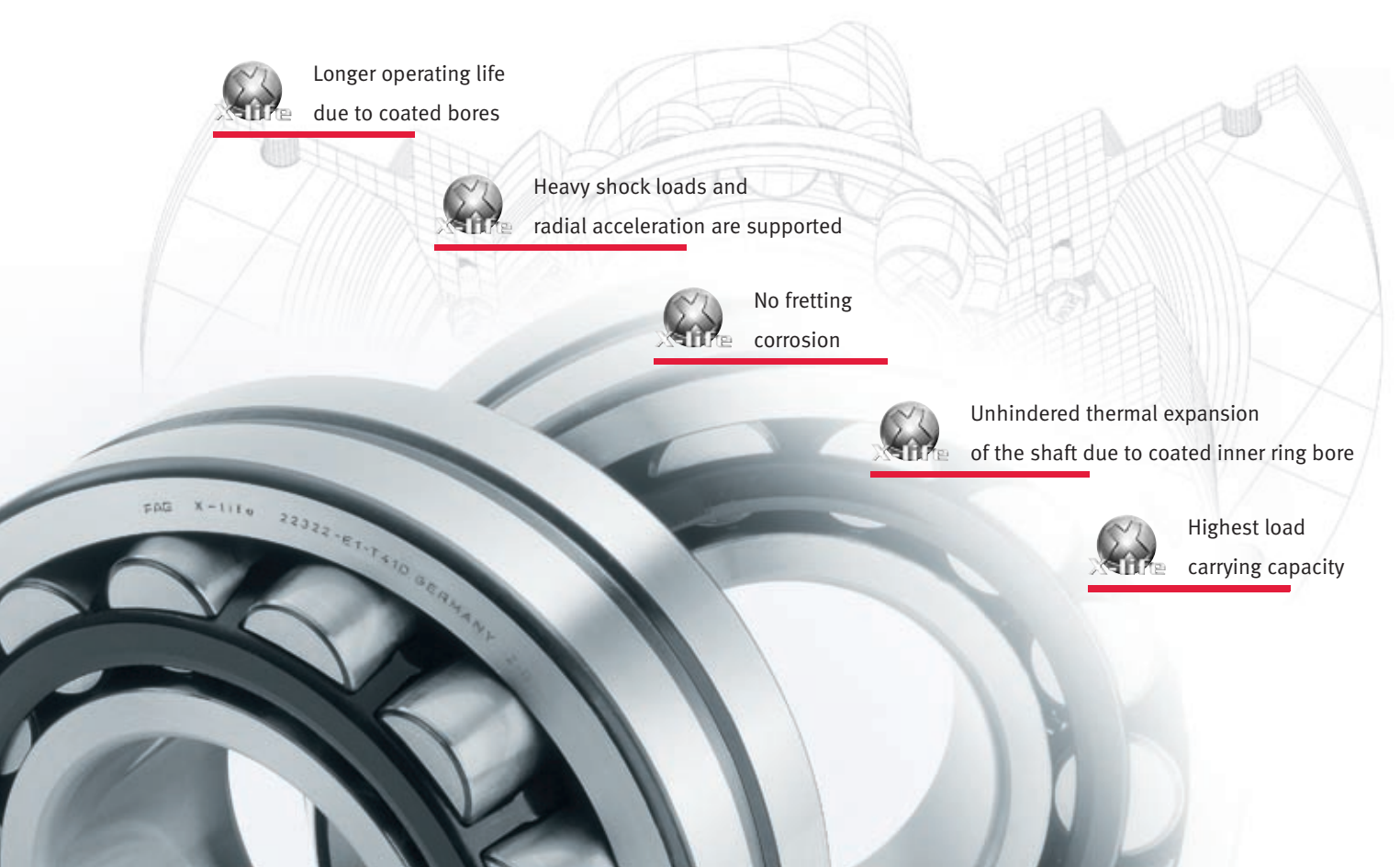
 Longer operating life due to coated bores

 Heavy shock loads and radial acceleration are supported

 No fretting corrosion

 Unhindered thermal expansion of the shaft due to coated inner ring bore

 Highest load carrying capacity



Coating

FAG special spherical roller bearings with Durotect® CK coating in the bore provide effective support of severe vibrations.

Durotect® CK coatings are hard chromium coatings. The special surface structure means that this hard chromium variant has special characteristics that contribute

to reducing friction and wear in various applications.

Durotect® CK

- Layer thickness 1.5 – 3 µm
- Hardness 950 – 1300 HV
- Corrosion protection to DIN 50021 SS 120 h
- Chemical resistance



Welcome to the Future! Unmatched Engineering Excellence from INA & FAG

X-life is the premium brand of Schaeffler Group Industrial. It brings together the strengths of the two brands INA and FAG and gives completely new design opportunities for design engineers.

X-life.

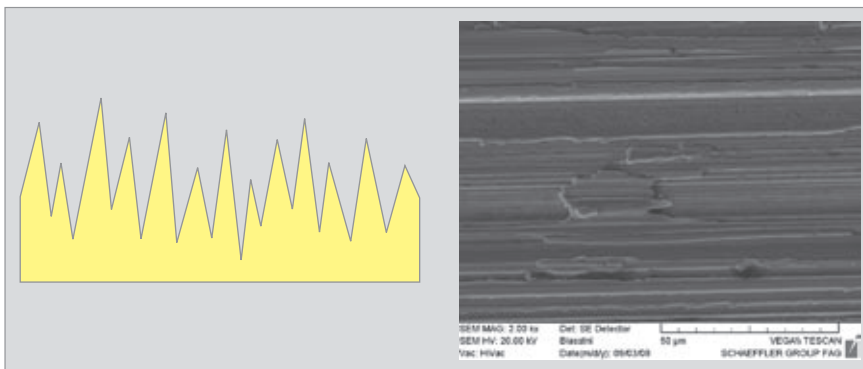
Higher cost-effectiveness.

Higher operational security.

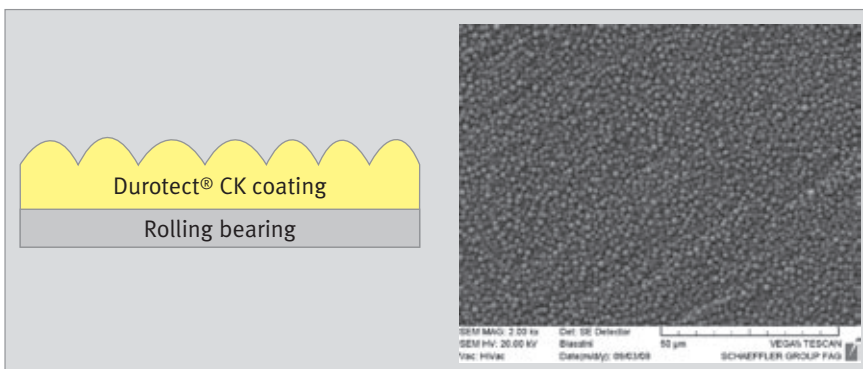
The use of state of the art manufacturing technologies has resulted in a better, more uniform surface over the whole contact face between the rolling elements and raceway. As a result, under identical load there is a significant reduction in the stress conditions present on the rolling elements and raceway. The improved surface quality gives reduced friction and lower bearing temperatures, running resistance is lower and less strain is placed on the lubricant.

Thanks to such improvements, the basic dynamic load ratings are significantly higher than those of the previous design. As a result, the basic rating life is higher; i. e. the operating life of the bearings is considerably longer under the same operating conditions. Alternatively, higher loads can be applied while maintaining the same rating life values.

With their optimized characteristics, X-life bearings open up completely new application prospects such as downsizing of the bearing support. Furthermore, the improved price/performance ratio ultimately increases the overall cost-effectiveness of the bearing support.



Without coating



With Durotect® CK coating



Sheet steel cages

- Free space for lubricants
- Good grease/oil compatibility
- Suitable for extreme operating temperatures
- High stability
- Low mass



Fax Reply to:

Fax +49 9721 91-4447

Yes, I would like to find out more about FAG special spherical roller bearings for vibratory machinery. Please send me detailed information about

- FAG special spherical roller bearings for vibratory machinery, Technical Product Information WL 21 100/5 EA
- Rolling bearings, Catalog HR 1

Company/department _____

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