COD 11[®]

Metallic range

HIGH RESISTANCE TO OXIDATION, SEIZURE, AND WEAR UNDER DIFFICULT OPERATING CONDITIONS - REDUCED MAINTENANCE

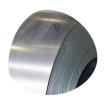
COD 11® components, manufactured from specific alloys. They offer excellent resistance to wear and seizure in highly corrosive environments. For example, these bushings are widely used in the steel industry as replacements for bronze bushings.



Examples of applications:











Continuous casting

Gas holders

Offshore applications

Port applications

Operating conditions

Topography	Grid pattern	HP	ВН
Max. static pressure	200 MPa	300 MPa	350 MPa
Max. dynamic pressure	60 MPa	90 MPa	105 MPa
Max. speed		0,2 m/s	•
Max. temperature		Up to 350°C	
Lubrication		Greased	
Lubrication intervals	Up to 24h	Up to 150h	Up to 300h
Assembly instructions	Press or nitrogen assembly. If something else, please contact us		

Standard tolerances of the bushing

Inside diameter	H9*
Outside diameter	p6*

Housing

standard tolerance	H7*	

Shaft

Standard tolerance	f7*	
Optimum roughness	< 0,8 μm	
Recommended surface treatments	Hardness > 56 HRC	
Optimum HEF technology	COD® ST, COD® HT, COD® OX	

Components available in this technology

Bushings, flanged bushings, spherical plain bearings, slide pads, washers, etc.

COD 11® TECHNOLOGY IS A WORLDWIDE HEF trademark – HEF IS THE ONLY AUTHORISED MANUFACTURER

COD 11® technology is the result of studies and research carried out by the HEF Group's tribology specialists. However, it must be tested and validated under your specific operating conditions to ensure proper suitability for all your parameters before it is definitively adopted.

Contact

^{*} Depending on the severity of your application conditions, these recommendations may change. Contact us before use

FAM®

Metallic range

HIGH RESISTANCE TO ABRASION UNDER EXTREME OPERATING CONDITIONS : HIGH IMPACT, HIGH PRESSURE-MAINTENANCE-FREE

FAM® components, made from manganese steel, have excellent resistance to abrasive wear thanks to the mechanical work hardening of the friction zone.

Example of applications:



Exemples d'applications :











Continuous casting

Cas

Bucket excavators

Conveyor

Operating conditions

Max. static pressure	300 MPa	
Max. dynamic pressure	50 MPa	
Max. speed	0,05 m/s	
Max. temperature	Up to 380°C	
Lubrication	Greased or maintenance-free	
Lubrication intervals	Initial lubrication only	
Assembly instructions	Press or nitrogen assembly. If something else, please contact us	

Standard tolerances of the bushing

Inside diameter	Diameter	Tolerance	
	Ø 25 ≤ Ø ≤ Ø50	+0,05 / +0,20	
	Ø 50 < Ø ≤ Ø100	+0,05 / +0,30	
	Ø > Ø100	+0,1 / +0,40	
Outside diameter	s7	s7*	

Housing

Standard tolerance	H7*

Shaft

	Diameter	Tolerance
	Ø 25 ≤ Ø ≤ Ø50	-0,1 / -0,15
Standard tolerance	Ø 50 < Ø ≤ Ø100	-0,2 / -0,25
	Ø > Ø100	-0,25 / -0,3
Optimum roughness	< 0,8 μm	
Recommended surface treatments	Hardness > 56 HRC	
Optimum HEF technology	FAM® ST, FAM® HT, FAM® OX,	

Components available in this technology

Bushing, flanged bushings, spherical plain bearings, slide pads, washers, etc.

Contact

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Metallic range

HIGH RESISTANCE TO WEAR AND SEIZURE IN ABRASIVE ENVIRONMENTS AND AT HIGH TEMPERATURES

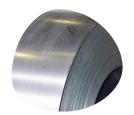
The TESCO® technology is made of high-strength steel alloys with excellent mechanical resistance and a duplex surface treatment that ensures high abrasion resistance in extreme operating conditions such as high pressures and high temperatures.



Examples of applications:







Winders



Loaders

Operating conditions

Topography	Grid pattern	HP	ВН
Max. static pressure	480 MPa	720 MPa	840 MPa
Max. dynamic pressure	100 MPa	150 MPa	250 MPa
Max. speed		1,5 m/s	•
Max. temperature	Up to 500°C		
Lubrication		Greased	
Lubrication intervals	Up to 50 h	Up to 250 h	Up to 1,000 h
Assembly instructions	Press, nitrogen assembly*. If something else, please contact us		

Standard tolerances of the bushing

Inside diameter	Н9*
Outside diameter	p6*

Housing

Standard tolerance	H7*

Shaft

Standard tolerance	f7*	
Optimum roughness	< 0,8 μm	
Recommended surface treatments	Hardness > 56 HRC	
Optimum HEF technology	TESCO®	

Components available in this technology

Bushings, flanged bushings, spherical plain bearings, slide pads, washers, etc.

THE TESCO® TECHNOLOGY IS A WORLDWIDE HEF trademark – HEF IS THE ONLY AUTHORISED MANUFACTURER

Contact

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