GGT Gleitlager AG
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Steel Bearings GGT200 | GGT250

Characteristics and material properties

Machined bushings made of case-hardened steel are more wear-resistant due to their soft core and are suitable for demanding applications. They are particularly suitable for applications with high loads and can be used even at high temperatures. Versions with lubrication grooves or solid lubrication pockets in the sliding surface (model series GGT250) allow a wide range of applications. Hardened steel bushings of the GGT200 series are suitable for bearing zones with particularly high specific loads and low sliding speeds.

Steel bushings are used, e.g., in construction machinery (shovels and grabs or hydraulic cylinders), earth-moving machinery such as excavators and loaders, but also in drilling machines, agricultural machinery such as ploughs and rear diggers. They are also used in industrial plants and in slideways for industrial presses and components for suction pumps, machine tools and automatic machines.

Typical characteristics

- Steel plain bearings ground and hardened (HRC 58-62)
- for low speeds with high specific loads
- Maintenance-intensive, for lubricated applications
- Suitable for grease lubrication
- Designs with lubrication grooves and lubrication holes
- Special version with additional solid lubricant

Individuelle Lösungen.

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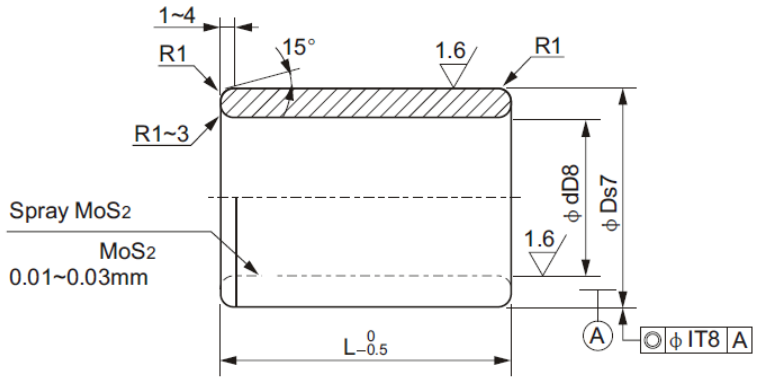
Material properties

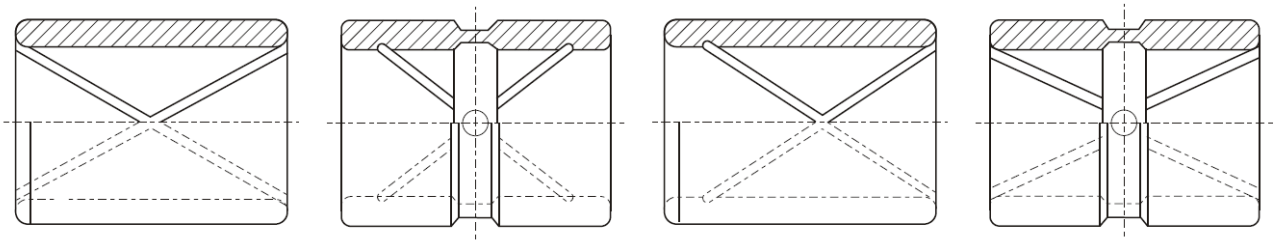
		200C	200G	250S	250S5
Base material		S45C	GCr15	S45C	GCr15
Coe. Of line expansion		1,1 x 10^{-5}/°C	1,1 x 10^{-5}/°C	1,1 x 10^{-5}/°C	1,1 x 10^{-5}/°C
Temperature	°C	-100 ~ +300	-100 ~ +300	-100 ~ +300	-100 ~ +300
Hardness		HRC ≤40	HRC ≤50	HRC ≤40	HRC ≤50
Max. Load	Mpa	150	200	150	200
Max. Speed	m/min	10	10	15	15
Solid Lubricant		With film 0,01-0,03 mm		Solid plug embedded	
Mating tolerance	Mating Housing H7 Mating Housing H7				

Bushes Sketch



GGT200#

Typical oil groove type



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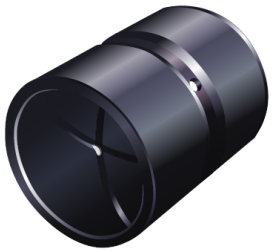
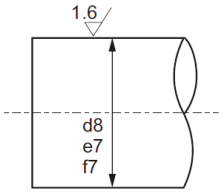
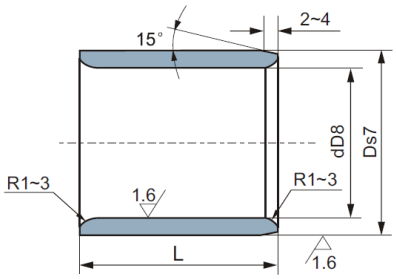
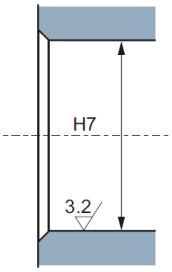
Dimension list GGT200





Mating Shaft





Mating Housing

d	D8	D	s7	L 0/-0.5										
				20	25	30	35	40	50	60	70	80	100	120
30	+0.098 +0.065	38	+0.068 +0.043	■	■	■	■	■	■					
30		40		■	■	■	■	■	■					
32	+0.119 +0.080	42		■		■		■						
35		45		■	■	■	■	■	■	■				
38		48		■		■		■						
40		50		■	■	■	■	■	■	■	■			
40		55	+0.083 +0.053	■		■	■	■	■	■				
45		60				■	■	■	■	■	■			
50		60				■	■	■	■	■	■			
50		62				■		■	■	■	■			
50		65				■		■	■	■	■	■	■	
55	+0.146 +0.100	70	+0.089 +0.059			■	■	■	■	■	■			
60		75				■	■	■	■	■	■	■	■	
65		80						■	■	■	■	■	■	
70		85	+0.106 +0.071			■	■	■	■	■	■	■	■	
75		90							■	■	■	■	■	
75		95								■	■	■	■	
80		95						■	■	■	■	■	■	
80		100						■	■	■	■	■	■	
85	+0.174 +0.120	100								■		■		
90		110	+0.114 +0.079					■	■	■		■	■	
100		120						■	■	■	■	■	■	
110		130	+0.132 +0.092					■	■		■	■	■	■
120		140									■	■	■	■
130	+0.208 +0.145	150	+0.140 +0.100									■	■	■
140		160											■	■
150		170	+0.148 +0.108									■	■	■

Unit Table in mm

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Legal information

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