

FAG Rolling Bearing Cages

Designation · Design · Material



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Cage types and Cage designs

This publication provides an overview of the rolling bearing cages that can be produced by FAG (several of these cages are not included in our catalogue). It also shows an allocation of the various standard cages to the individual bearing types, series and sizes.

The cage is an important component of a rolling bearing:

- it keeps the rolling elements apart to prevent mutual contact
- it keeps the rolling elements evenly spaced to ensure a more even load distribution
- it guides the rolling elements in the unloaded bearing zones
- it prevents the rolling elements from falling out of separable and slewable bearings, thereby facilitating bearing mounting.

There are pressed cages as well as solid cages:

Pressed cages are usually made from sheet steel, but sometimes also from brass sheet. They offer the advantages of a light weight and low material cost. If manufactured in large numbers, they are economic in spite of the expensive manufacturing tools.

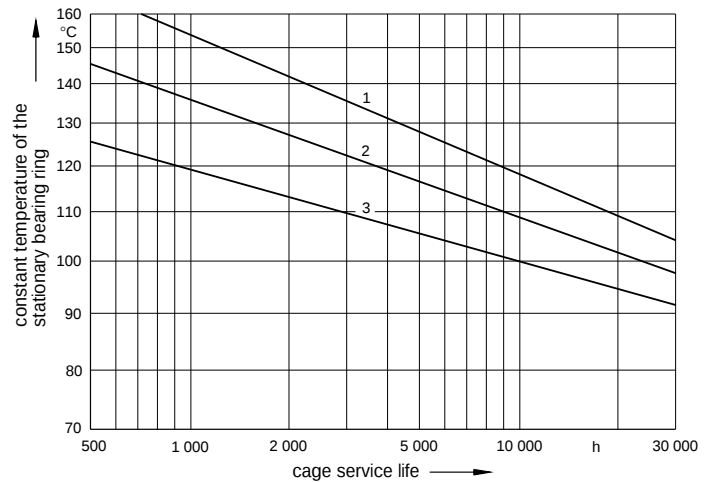
Solid cages are made from brass, steel, light metal or textile-laminated phenolic resin. They are manufactured either by machining, by injection moulding of plastic materials or by sintering metals.

Solid cages, especially those made from brass or steel, are suitable for small series and – for strength reasons – for large bearings subjected to high loads.

Solid cages made from light metal or textile-laminated phenolic resin have relatively low body forces; outer-ring riding solid cages are often used in high-speed bearings.

Cages made from glass-fibre reinforced polyamide PA66-GF25 are now used in numerous large-series bearings. A high degree of elasticity, a low weight as well as good sliding and dry-running properties have a positive effect on the bearing service life.

Glass-fibre reinforced polyamide cages are suitable for extended use at operating temperatures of up to 120 °C. In oil-lubricated bearings, however, additives contained in the oil may lead to a reduction of the cage service life, see diagram.



Curve 1 - Rolling bearing lubricating grease K in accordance with DIN 51825, motor- or machine lubrication oil

Curve 2 - gear oil

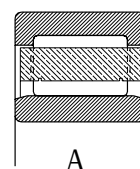
Curve 3 - hypoid oil

The curves relate to constant temperatures. If the bearings are not subjected to such high temperatures all the time, the cage service life will be longer.

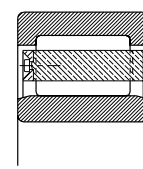
At increased temperatures aged oil can also have an impact on the cage service life; it is, therefore, important that the oil change intervals are observed.

The cost-effective standard cages are, as a rule, suitable for normal operating conditions. Special operating conditions require a specifically selected special cage. This explains the diversity of cage designs shown in this Technical Information.

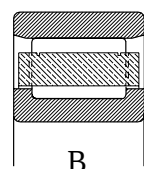
Another distinctive feature of a cage is the type of guidance. Most cages are guided by the rolling elements. This type of cage guidance is not specified in the code. By contrast, cage guidance by the outer ring (outer ring riding) and by the inner ring (inner ring riding) is indicated by the suffixes A and B, respectively.



guidance by the outer ring



guidance by the rolling elements



guidance by the inner ring

Cage suffixes for ball and roller bearings

Pressed steel cages

J	rolling element riding
JH	snap-type cage; rolling element riding
JN	rivet-type cage; rolling element riding
JP	window-type cage; rolling element riding
JP1	window-type cage; rolling element riding
JPA	window-type cage; guidance by the inner ring (supporting ring)
JPB	window-type cage; guidance by the inner ring

Pressed brass cages

YPB	window-type cage; guidance by the inner ring
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Machined steel cages

F	rolling element riding
FA	guidance by the outer ring (housing washer, housing)
FB	guidance by the inner ring (shaft washer, shaft)
FP	window-type cage; rolling element riding

Machined light metal cages

LA	guidance by the outer ring (housing)
LB	guidance by the inner ring (shaft)
LPA	window-type cage; guidance by the outer ring (housing)
LPB	window-type cage; guidance by the inner ring (shaft)

Machined brass cages

M	rolling element riding
M1	rolling element riding (crosspiece riveted)
M1A	guidance by the outer ring (crosspiece riveted)
M1B	guidance by the inner ring (crosspiece riveted)
M3 ¹⁾	modified design; rolling element riding
M3A ¹⁾	modified design; guidance by the outer ring
M3B ¹⁾	modified design; guidance by the inner ring

MA	guidance by the outer ring (housing washer, housing)
MAS	guidance by the outer ring; with lubricating grooves
MB	guidance by the inner ring (shaft washer, shaft)
MBS	guidance by the inner ring; with lubricating grooves
MP	window-type cage; rolling element riding
MP1	window-type cage; rolling element riding
MPA	window-type cage; guidance by the outer ring (housing)
MPB	window-type cage; guidance by the outer ring (Welle)

Machined textile laminated phenolic cagees

TA	guidance by the outer ring
TB	guidance by the inner ring
THB	snap-type cage; guidance by the inner ring
TPA ²⁾	window-type cage; guidance by the outer ring
TPB	window-type cage; guidance by the inner ring

Moulded polyamide cages (PA66)

TNP	window-type cage; rolling element riding
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Moulded polyamide cages (PA66-GF25)

TV	rolling element riding
TVA	guidance by the outer ring
TVB	guidance by the inner ring
TVH	snap-type cage; rolling element riding
TVHB ²⁾	snap-type cage; guidance by the inner ring
TVP	window-type cage; rolling element riding
TVP2	window-type cage; rolling element riding
TVP3 ³⁾	window-type cage; rolling element riding
TVPB	window-type cage; guidance by the inner ring
TVPB1	window-type cage; guidance by the inner ring

¹⁾ In the order designation the cage suffix is M1.

²⁾ In the order designation the cage suffix is T.

³⁾ In the order designation the cage suffix is TVP2.

Allocation of the standard cage designs

FAG rolling bearings can be fitted with various types of cages. However, for every bearing only one cage type is specified as the standard design. The following tables list the standard design cages; they can be pressed cages as well as solid cages of brass, steel, light metal or synthetic materials.

Specification of the cage in the bearing codes

Generally, standard pressed cages are not specifically specified in the bearing codes.

The cage code is always included in the bearing codes in the following cases:

- bearings with pressed cages that are not specified as the standard design;
- all solid cages, whether or not specified as the standard cage.

Example: The standard cage of a deep groove ball bearing FAG 6205 is a J-design cage. If, however, the bearing is to be equipped with a JN-cage, the code for this cage has to be included in the bearing code (6205JN).

Cages of glass-fibre reinforced polyamide:

Cages of polyamide PA66-GF25 are suffixed T in the product numbers of deep groove ball bearings and barrel roller bearings.

Example: The standard cage design for deep groove ball bearings is a TVHB-design cage but the product number is 61815T.

Bearing size / range	Cage	Bearing size / range	Cage	Bearing size / range	Cage
FAG Deep groove ball bearings, single row		- sealed		FAG Deep groove ball bearings, single row, stainless steel, design open or sealed (.2RSR)	
60864 - 608/1400	M	623.2Z - 627.2Z J		S6000.W203B - S6004.W203B J ¹⁾	
- sealed		623.2RS - 627.2RS J		S6005.W203B - S6012.W203B JN ¹⁾	
608.2RS, .2Z	J	629.2RSR - 6216.2RSR JN		S6200.W203B - S6206.W203B J ¹⁾	
618/6	J	629.2ZR - 6216.2ZR JN		S6207.W203B - S6212.W203B JN ¹⁾	
61800 - 61828	TVHB *)	62200 - 62206 J		S6300.W203B - S6311.W203B JN ¹⁾	
61830 - 61856	JN	62207 - 62215 JN			
61860 - 618/850	M	- sealed			
60952 - 609/670	M	62200.2RSR - 62210.2RSR JN		FAG Deep groove ball bearings, double row	
61900 - 61903	J	634, 635 J		4200B - 4216B	TVH
61904 - 61948	JN	6300 - 6324 JN		4302B - 4312B	TVH
61952	M	6326 - 63/500 M			
61956	JN	- sealed		FAG Angular contact ball bearings, single row	
61960 - 619/1900	M	634.2RS, 635.2RS J		7200B - 7220B	TVP
16002 - 16008	J	634.2Z, 635.2Z J		7221B	MP
16009 - 16052	JN	6300.2RSR - 6314.2RSR JN		7222B - 7226B	TVP
16056 - 16076	M	6300.2ZR - 6322.2ZR JN		7228B - 7276B	MP
16100, 16101	J	62302.2RSR - 62310.2RSR JN		7280B - 72/500B	MPB
607 - 6004	J	6403 - 6414 JN		7300B - 7320B	TVP
6005 - 6030	JN	6415 - 6418 M		7321B	MP
6032	M			7322B - 7326B	TVP
6034	JN	FAG Deep groove ball bearings, single row, E-design		7328B - 7364B	MP
6036 - 6072	M	6000E - 6020E	TVH	7368B - 73/500B	MPB
- sealed		6200E - 6220E	TVH		
609.2RSR - 6015.2RSR	J	6300E - 6320E	TVH	FAG Angular contact ball bearings, double row	
609.2ZR - 6016.2ZR	J	6403E - 6408E	TVH	3200B - 32216B	TVH
623 - 6206	J			3302B - 3313B	TVH
6207 - 6230	JN				
6232 - 6256	M				

*) In the order designation: suffix T

¹⁾ Cage material is stainless steel X 45 Cr Ni 18 9 (mat.-no. 1.4301)

Bearing size / range	Cage	Bearing size / range	Cage	Bearing size / range	Cage
FAG Angular contact ball bearings, single row		- sealed		FAG Cylindrical roller bearings, single row	
- with split inner ring		HCS71900C - HCS71926C	TPA *)		
3305DA TVH		HCS71900E - HCS71926E	TPA *)	N1860 - N18/950	M1
3306DA, 3307DA	JP			NJ1860 - NJ18/950	M1
3308DA MA		HCS7000C - HCS7026C	TPA *)	NU1860 - NU18/950	M1
3309DA JP		HCS7000E - HCS7026E	TPA *)	NUP1860 - NUP18/950	M1
3310DA, 3311DA	MA				
3312DA - 3314DA	JP	FAG Self-aligning ball bearings		N2840 - N28/850	M1
- with filling grooves		108	TV	NJ2840 - NJ28/850	M1
3217, 3218	J	126 - 1218	TV	NU2840 - NU28/850	M1
3219	M	1219 - 1230	M	NUP2840 - NUP28/850	M1
3220	J				
3221 - 3222	M	2200 - 2213	TV	N1909 - N19/670	M1
		2214	M	NJ1909 - NJ19/670	M1
3300 - 3316	J	2215, 2216	TV	NU1909 - NU19/670	M1
3317	M	2217	M	NUP1909 - NUP19/670	M1
3318	J	2218	TV		
3319 - 3322	M	2219 - 2222	M	N2926 - N29/1180	M1
				NJ2926 - NJ29/1180	M1
FAG Spindle bearings		135	TV	NU2926 - NU29/1180	M1
B71900C - B71948C	TPA *)	1303 - 1313	TV	NUP2926 - NUP29/1180	M1
B71900E - B71948E	TPA *)	1314 - 1322	M		
B7000C - B7048C	TPA *)			N1005 - N10/560	M1
B7000E - B7048E	TPA *)	2300, 2301	M	NJ1005	M1
B7200C - B7244C	TPA *)	2302 - 2313	TV	NJ1006	JP
B7200E - B7244E	TPA *)	2314 - 2360	M	NJ1007 - NJ10/560	M1
HS71900C - HS71926C	TPA *)	11204 - 11212	TV		
HS71900E - HS71926E	TPA *)	11305 - 11311	TV	NU1005	M1
HS7000C - HS7026C	TPA *)			NU1006	JP
HS7000E - HS7026E	TPA *)	- sealed		NU1007 - NU10/560	M1
- sealed		2200.2RS - 2214.2RS	TV		
HSS71900C - HSS71926C	TPA *)	2303.2RS - 2311.2RS	TV	NUP1005	M1
HSS71900E - HSS71926E	TPA *)			NUP1006	JP
HSS7000C - HSS7026C	TPA *)	FAG Four-point bearings		NUP1007 - NUP10/560	M1
HSS7000E - HSS7026E	TPA *)	QJ205 - QJ207	MPA		
		QJ208, QJ209	TVP	N202E - N226E	TVP2
		QJ2010	MPA	N228E - N268E	M1
		QJ211, QJ212	TVP	N272 - N2/900	M1
		QJ213	MPA		
FAG Hybrid-Spindle bearings (steel rings, ceramic balls)		QJ214, QJ215	TVP	NJ202E - NJ226E	TVP2
HC71900C - HC71926C	TPA *)	QJ216 - QJ2/500	MPA	NJ228E - NJ268E	M1
HC71900E - HC71926E	TPA *)			NJ272 - NJ2/900	M1
HC7000C - HC7026C	TPA *)	QJ304	MPA		
HC7000E - HC7026E	TPA *)	QJ305 - QJ309	TVP	NU202E - NU226E	TVP2
		QJ310 - QJ3/500	MPA	NU228E - NU268E	M1
				NU272 - NU2/900	M1
HCB71900C - HCB71926C	TPA *)				
HCB71900E - HCB71926E	TPA *)			NUP202E - NUP226E	TVP2
HCB7000C - HCB7026C	TPA *)			NUP228E - NUP268E	M1
HCB7000E - HCB7026E	TPA *)			NUP272 - NUP2/900	M1
HCB7200C - HCB7226C	TPA *)				
HCB7200E - HCB7226E	TPA *)			N1244 - N1284	M1
				N1288	M
				N1292 - N12/500	M1

*) In the order designation: suffix T

Bearing size / range	Cage	Bearing size / range	Cage	Bearing size / range	Cage
NJ1244 - NJ1284	M1	NJ2304E - NJ2356E	M1	FAG Tapered roller bearings	
NJ1288	M	NJ2324E - NJ2356E	M1	32919 - 32960	JP
NJ1292 - NJ12/500	M1	NJ2360 - NJ2364	M1	32004X - 32064X	JP
NU1244 - NU1284	M1	NJ2368 - NJ2376	M	33009 - 33022	JP
NU1288	M	NJ2380 - NJ2396	M1	33111 - 33122	JP
NU1292 - NU12/500	M1	NJ23/500	M	30202 - 30244A	JP
NUP1244 - NUP1284	M1	NU2304E - NU2356E	M1	32203A - 32252	JP
NUP1288	M	NU2324E - NU2356E	M1	33205 - 33217	JP
NUP1292 - NUP12/500	M1	NU2360 - NU2364	M1	30302A - 30332A	JP
N2203E, N2204E	M1A	NU2368 - NU2376	M	31304 - 31330X	JP
N2205E - N2268E	M1	NU2380 - NU2396	M1	32303A - 32252	JP
N2272 - N22/500	M1	NU23/500	M	FAG Tapered roller bearings, single and double row, inch dimensions	
N22/530	M	NUP2304E - NUP2356E	M1	alle Lagerausführungen	JP
NJ2203E - NJ2226E	TVP2	NUP2324E - NUP2356E	M1	FAG Barrel roller bearings	
NJ2228E - NJ2268E	M1	NUP2360 - NUP2364	M1	20204 - 20216	TVP *)
NJ2272 - NJ22/500	M1	NUP2368 - NUP2376	M	20217 - 20264	MB
NJ22/530	M	NUP2380 - NUP2396	M1	20304 - 20312	TVP *)
NJ22/560 - NJ22/630	M1	NUP23/500	M	20313 - 20356	MB
NU2203E - NU2226E	TVP2	N404 - N409	M1	20404 - 20406	TVP *)
NU2228E - NU2268E	M1	N410	JP	20407 - 20448	MB
NU2272 - NU22/500	M1	N411	M1	FAG Spherical roller bearings	
NU22/530	M	N412, N413	JP	23936S - 23944S	MB
NU22/560 - NU22/630	M1	N414 - N448	M1	23948 - 239/1000	MB
NUP2203E - NUP2226E	TVP2	NJ404 - NJ06	M1	23022ES - 23040ES	TVPB
NUP2228E - NUP2268E	M1	NJ407 - NJ411	JP	23022EAS - 23040EAS	M
NUP2272 - NUP22/500	M1	NJ412	M1	23044 - 230/1000	MB
NU22/530	M	NJ413 - NJ415	JP	24024ES - 24032ES	TVPB
NU22/560 - NU22/630	M1	NJ416 - NJ421	M1	24024S - 24040BS	MB
N305E - N316E	TVP2	NJ422	JP	24044B - 240/850	MB
N317E - N356E	M1	NJ424 - NJ448	M1	23120ES - 23136ES	TVPB
N360 - N3/670	M1	NU404 - NU406	M1	23138E	TVPB
NJ303E - NJ320E	TVP2	NU407 - NU411	JP	23120EAS - 23136EAS	M
NJ321	M1	NU412	M1	23138EA	M
NJ322E - NJ328E	TVP2	NU413 - NU415	JP	23140B - 231/1000	MB
NJ330E - NJ356E	M1	NU416 - NU421	M1	24122ES - 24128ES	TVPB
NJ360 - NJ3/670	M1	NU422	JP	24120BS - 24136BS	YPB
NU303E - NU320E	TVP2	NU424 - NU448	M1	24138B - 24188B	YPB
NU321E	M1	NUP404 - NUP406	M1	24192B - 241/710B	MB
NU322E - NU328E	TVP2	NUP407 - NUP411	JP	22205E - 22236E	JPA
NU330E - NU356E	M1	NUP412	M1	22238B - 22264	MB
NU360 - NU3/670	M1	NUP413 - NUP415	JP		
NUP303E - NUP320E	TVP2	NUP416 - NUP421	M1		
NUP321E	M1	NUP422	JP		
NUP322E - NUP328E	TVP2	NUP424 - NUP448	M1		
NUP330E - NUP356E	M1	FAG Cylindrical roller bearings, single and double row for machine tools			
NUP360 - NUP3/670	M1	N1006K - N10/500K	M1		
N2304E - N2356E	M1	NNU4920SK - NNU49/500SK	M		
N2324E - N2356E	M1	NN3006ASK - NN30/500ASK	M		
N2360 - N2364	M1				
N2368 - N2376	M				
N2380 - N2396	M1				
N23/500	M				

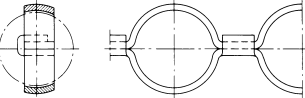
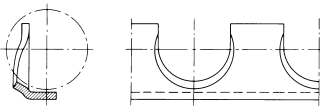
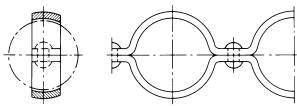
Bearing size / range	Cage	Bearing size / range	Cage	Bearing size / range	Cage
23218ES - 23234ES 23236E	TVPB TVPB	FAG Thrust ball bearings, double direction		FAG S-type bearings, metrical and inch dimensions	
23218EAS - 23234EAS 23236EA	M M	52202 - 52228	JP	16203/12 - 16212	JN
23238B - 232/750	MB	52230 - 52244	MP	16203.008 - 16212.207	JN
24220BS - 24226S	YPB	54205 - 54220	JP	36204 - 36218	JN
24228S - 24234S	MB	54230 - 54244	MP	36204.012 - 36218.308	JN
24236B - 242/710	MB	52305 - 52320	JP	56204 - 56218	JN
21304E - 21322E	TVPB	52322 - 52330	MP	56204.012 - 56218.308	JN
22308E - 22328E	JPA	52332 - 52340	M	76203.2RSR - 76212.2RSR	JN
22330E	JPA	54305 - 54320	JP		
22332B - 223/560B	MB	54322, 54324	MP	FAG Cylindrical roller bearings for wheelset bearings	
FAG Spherical roller bearings for vibrating machines		52405 - 52411	J	WJ80x140	TVP
22308E.T41A - 22330E.T41A	JPA	52412 - 52430	FP	WJP80x140P	TVP
22332A.T41A - 22344A.T41A	MA	52432 - 52436	M	WJ90x160	TVP
23320AS.T41A - 22328AS.T41A	MA	54405 - 54411	J	WJP90x160P	TVP
23330A.T41A - 23340A.T41A	MA	54412 - 54430	FP	WJ100x180	TVP
FAG Thrust ball bearings, single direction		FAG Angular contact thrust ball bearings for machine tools -single direction		WJP100x180P	TVP
51000 - 510/600	MP	7602080 - 7602100	TVP	WJ100x200	M
51100 - 51128	JP	7603080 - 7603100	TVP	WJP100x200P	M
51130 - 51168	FP	BSB020047 - BSB100150	TVP *)	WJ110x215	M1
51172 - 511/560	MP	-double direction, preloaded		WJP110x215P	M1
51200 - 51228	JP	234406 - 234480	M	WJ120x215	TVP
51230 - 51256	MP	234706 - 234780	M	WJP120x215P	TVP
51260 - 512/500	M	FAG Cylindrical roller thrust bearings, single direction		WJ120x240	TVP
53200 - 53228	JP	81102, 81103	LPB	WJP120x240P	TVP
53230 - 53256	MP	81104, 81105	TVPB	WJ130x240	TVP
53260 - 532/500	M	81106	TVPB1	WJP130x240P	TVP
51305 - 51320	JP	81107 - 81114	TVPB	WJ150x300	M1
51322 - 51330	MP	81115 - 81122	LPB	WJP150x300P	M1
51332 - 513/500	M	81124 - 81156	MPB	514115 (180x320x75)	M1
53305 - 53320	JP	81160 - 811/500	MB	514116 (180x320x75)	M1
53322 - 53330	MP	81206 - 81211	TVPB	NF2220E - NF2222E	TVP
53332 - 53340	M	81212 - 81220	LPB	NF2224E	M1
51405 - 51411	J	81222 - 81244	MPB	NJ2230E	M1
51412 - 51430	FP	81248 - 81276	MB	NU2230E + angle ring HJ	M1
51432 - 514/500	M	FAG Spherical roller thrust bearings		NJ2316E - NJ2318E	TVP2
53405 - 53411	J	29240E - 292/800E	MB	NJP2316ED - NJP2318ED	TVP2
53412 - 53430	FP	29317E - 29364E	JP	NJ2320E	M1
53432 - 53436	M	29368E - 293/850E	MB	NJP2320ED	M1
		29412E - 29468E	JP	NJ2326E	M1
		29472E - 294/800E	MB	NJP2326ED	M1
				NU2326E + angle ring HJ	M1

*) Im Bestellkurzzeichen wird T
angeschrieben.

FAG Cage designs for rolling bearings

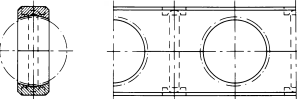
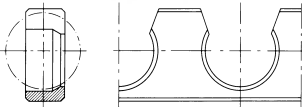
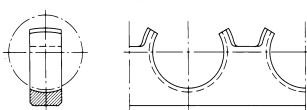
FAG Deep groove ball bearings, single row

Pressed cage

J	Steel	JH	Steel	JN	Steel
					
					

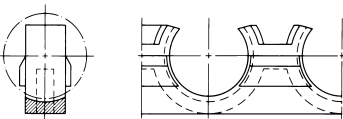
Machined or moulded cage

F · FA · FB	Steel	THB	Textil laminated phenolic	TVH	Polyamide PA66-GF25
M · MA · MB	Brass			TVHB	
TA · TB	Textile laminated phenolic				
TV · TVA · TVB	Polyamide PA66-GF25				

FAG Deep groove ball bearings, double row

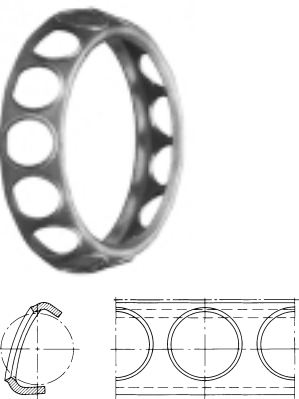
Moulded cage

TVH	Polyamide PA66-GF25
	
	

FAG Angular contact ball bearings, single row

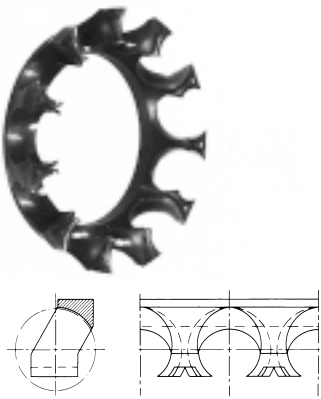
Pressed cage

JP	Steel
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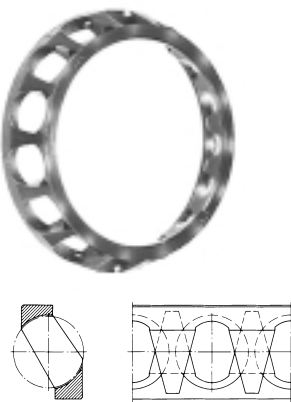
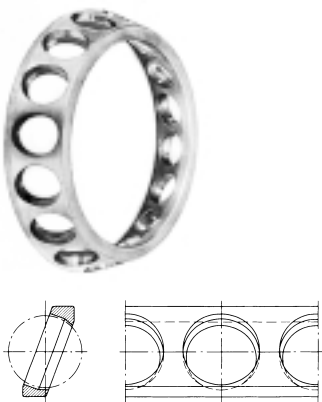
Moulded cage

TVH	Polyamide PA66-GF25
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Machined or moulded cage

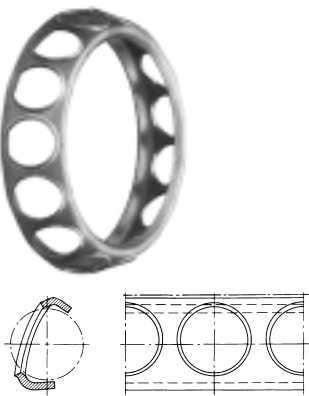
MPA · MPB	Brass	MP	Brass	TVP	Polyamide PA66-GF25
TPA · TPB	Textile laminated phenolic				



FAG Angular contact ball bearings, double row

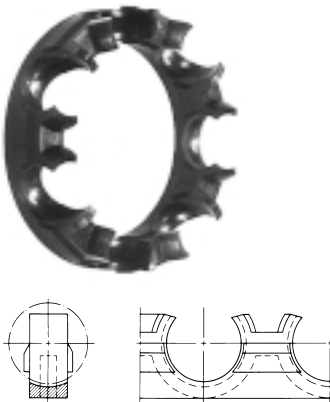
Pressed cage

J	Steel	JP	Steel
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Moulded cage

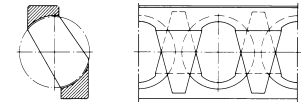
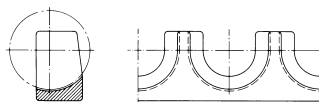
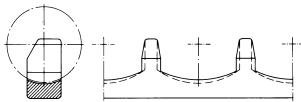
TVH	Polyamide PA66-GF25
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FAG Angular contact ball bearings, double row

Machined or moulded cage

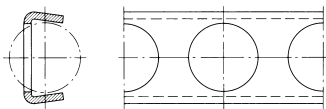
F	Steel	MA	Brass	TVP	aus Polyamide PA66-GF25
M	Brass				



FAG Four-point bearings

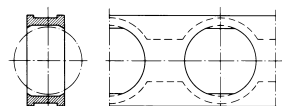
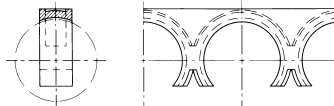
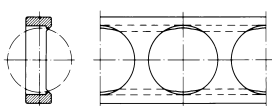
Pressed cage

JP	Steel				
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Machined or moulded cage

MPA · MPB	Brass	TVH	Polyamide PA66-GF25	TNP	Polyamide PA66
TPA · TPB	Textile laminated phenolic			TVP	Polyamide PA66-GF25

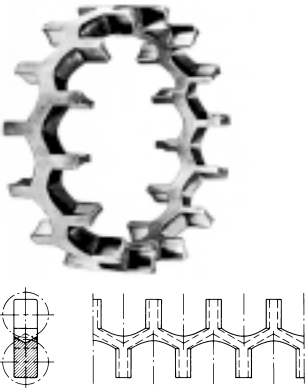


FAG Self-aligning ball bearings

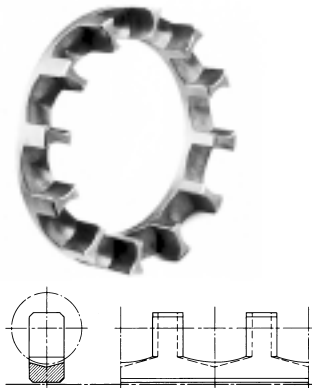
Machined or moulded cage

F	Steel	F	Steel	TV	Polyamide PA66-GF25
M	Brass	M	Brass		

Series 12 and 13



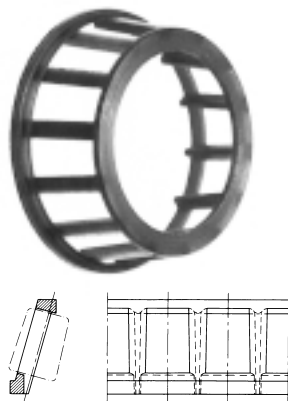
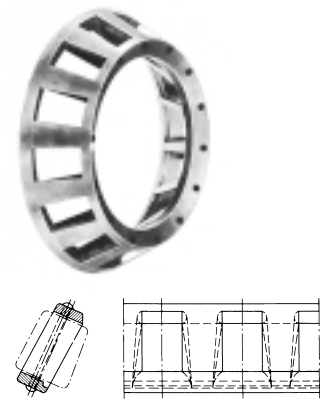
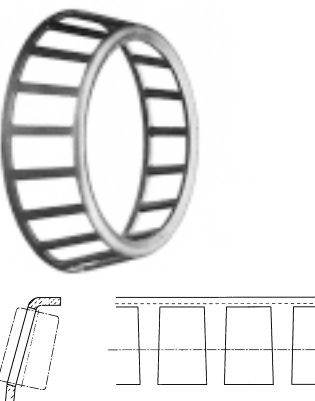
Series 22 and 23



FAG Tapered roller bearings

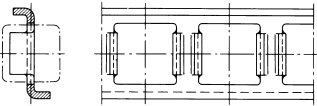
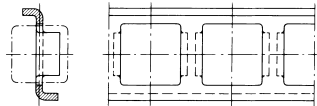
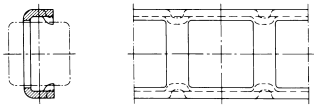
Pressed cage

JP	Steel	M	Brass	TVP	Polyamide PA66-GF25
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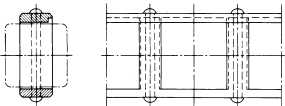
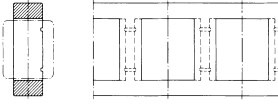
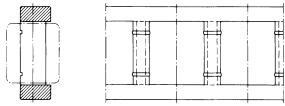


FAG Cylindrical roller bearings, single row and in E-design

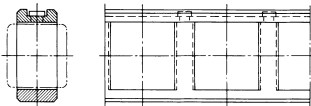
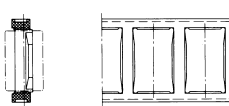
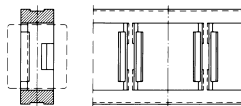
Pressed cage

JP	Steel	JP	Steel	JP1	Steel
-for designs with two lip boards on inner ring		-for designs with two lip boards on outer ring		-for designs with two lip boards on outer ring	
					
					

Machined cage

F · FA · FB	Steel	MPA	Bress	MPB	Bress
M · MA · MB	Bress	LPA	Light metal	LPB	Light metal
		-for designs with two lip boards on outer ring		-for designs with two lip boards on inner ring	
					
					

Machined or moulded cage

M1 · M1A · M1B	Bress	TVP3	Polyamide PA66-GF25	TVP2	Polyamide PA66-GF25
M3 · M3A · M3B					
		-for designs with two lip boards on outer ring		-for designs with two lip boards on inner ring	
					
					

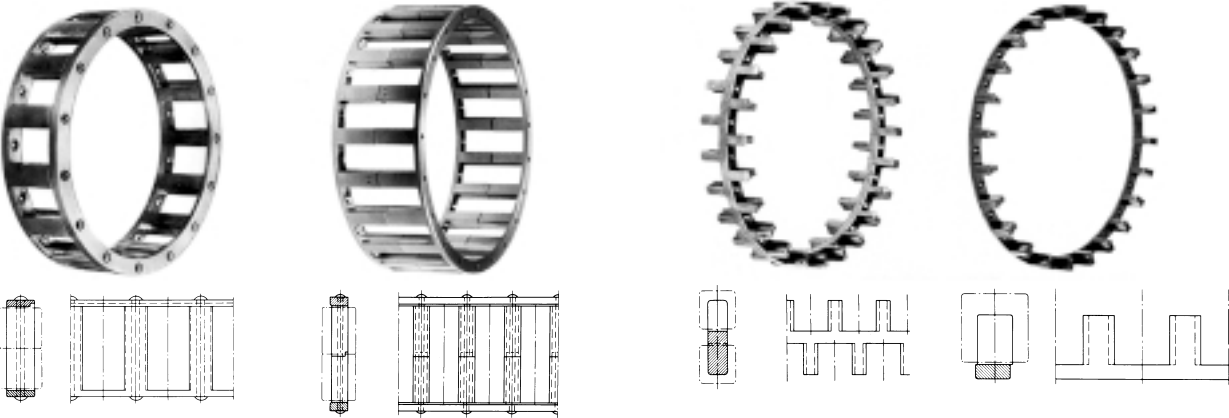
FAG Cylindrical roller bearings , double row

Machined cage

M · MA	Brass			F	Steel
MAS				M	Brass

-Series NU30
from bore 1060 mm

-Series NU60



FAG Barrel roller bearings

Pressed cage

J	Steel	Machined or moulded cage		TVP	Polyamide PA66-GF25
		M · MB	Brass		



FAG Spherical roller bearings

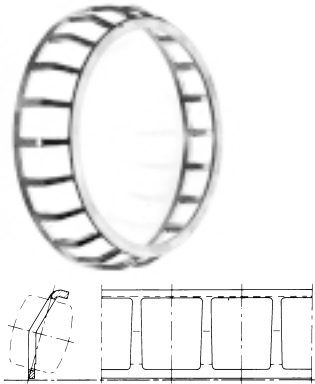
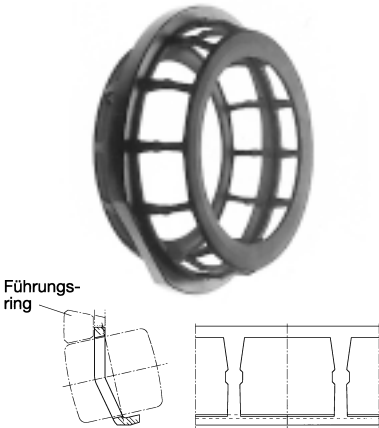
Pressed cage

J	Steel	JPA	Steel	JPB	Steel
				YPB	Brass

-Series 213

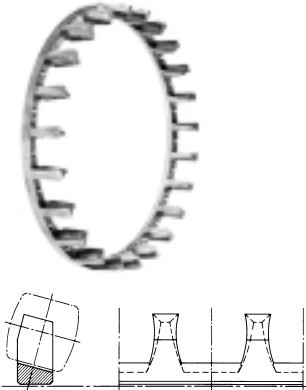
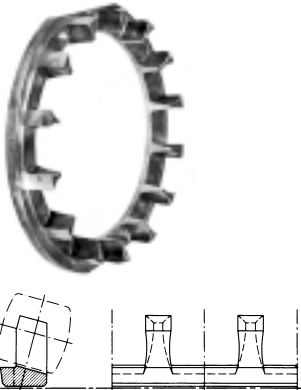


-Series 222E and 223E



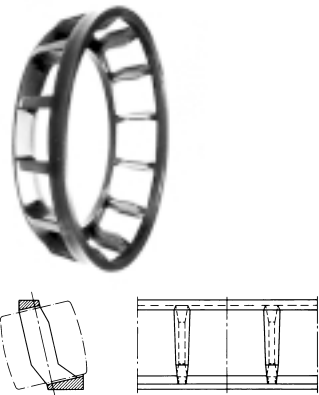
Machined cage

FA	Steel	FB	Steel	M	Brass
MA	Brass	MB	Brass		
LA	Light metal	LB	Light metal		



Machined or moulded cage

MB	Brass	TVPB	Polyamide PA66-GF25
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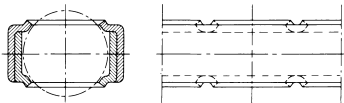
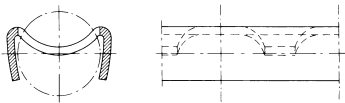


FAG Thrust ball bearings

Pressed cage

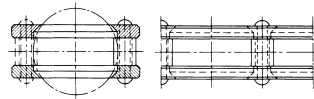
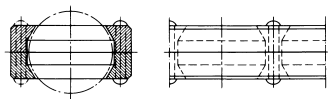
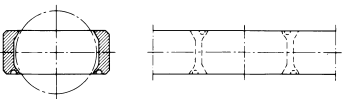
JP	Steel
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-Series 511 and 514



Machined cage

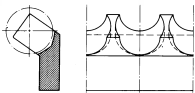
FP	Steel	F	Steel
MP	Brass	M	Brass



FAG Angular contact thrust ball bearings

Machined cage

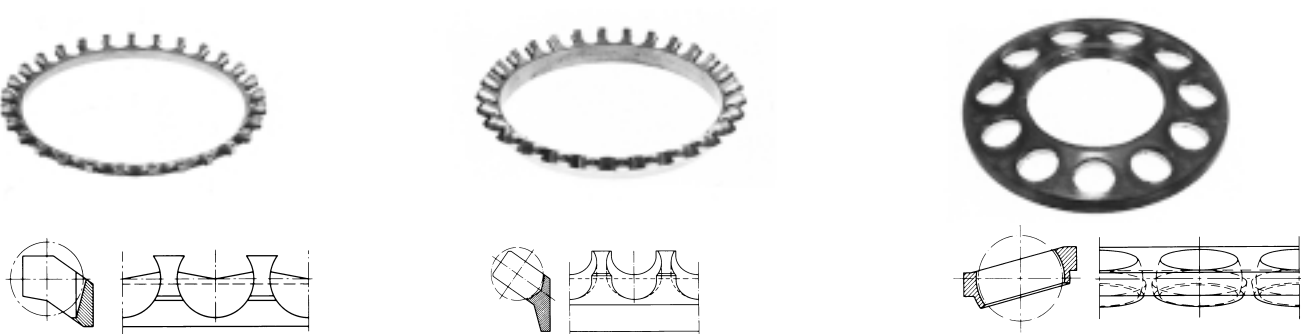
MA	Brass
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FAG Angular contact thrust ball bearings

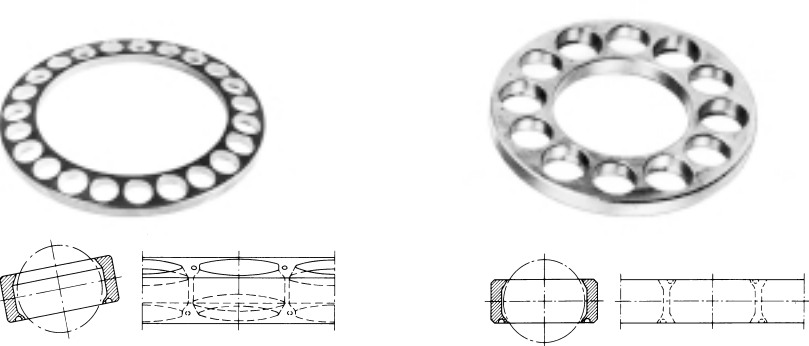
Machined or moulded cage

M	Brass	TVP	Polyamide PA66-GF25
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Machined cage

MP	Brass	MP1	Brass
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FAG Cylindrical roller thrust bearings

Pressed cage

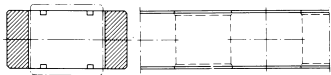
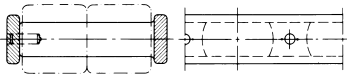
J	Steel	TVPB	Polyamide PA66-GF25
		TVPB1	



FAG Cylindrical roller bearings

Machined cage

MA · MB · MBS	Brass	MPA · MPB	Brass
FB	Steel		
LA · LB	Light metal		



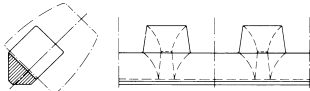
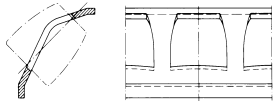
FAG Spherical roller thrust bearings

Pressed cage

JP	Steel
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Machined cage

MB	Brass
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FAG Rolling Bearing Cages

Designation · Design · Material

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