

**E90 E92  
E90A E92A**





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## 1 轴承材质 Bushing Material



### 1.1 E90 产品介绍 E90 Brief Description

E90轴承是以高密度铜合金（CuSn8）为基体材质卷制而成的具有承载能力大，耐磨性能好的特点。基于铜易加工的良好性能和先进的工装模具，E90轴承可以在带材表面加工出适应各种工况条件的油穴(标准产品为菱形油穴)，油槽等，使轴承在使用中可储存大量的润滑油脂，在工作初期形成油膜，降低摩擦系数，工作中延长加油间隔周期，有效提高轴承使用寿命。与传统的铜套相比，E90轴承具有密度高、薄壁、低重、负载压力大、长寿命，经济等优点，主要应用于农业机械、森林机械、工程机械、采矿机械等领域。

E90 bronze wrapped bushings are made of entirely bronze CuSn8. Because of material properties, the working surface rolled with diamond Indentations (standard Indentations) or stamped oil grooves according to detailed application. And it also has good performance of anti-corrosion caused by chemical and environments. During the operation, the grease & oil will be released from the indentations, which allow for long-term lubrication. Compare with machined bronze bearings; E90 can offer some advantages including thin wall, lower weight, cheaper cost, high load etc. It is suitable for high load, lower speed application like construction, transport, and agriculture machinery.



## 1.2 E92 产品介绍 E92 Brief Description

E92 轴承是以 (CuSn8) 为基体材质，表面排布规则的油孔，可在装配前或装配后涂抹油脂，以便在工作中易形成转移油膜，降低摩擦系数。具有油脂储存量大、免维护周期长等优点。产品被广泛应用于农业机械、森林机械、工程机械等。

E92 is deriving from E90; the difference between E90 & E92 is Indentations on working surface, which substituted by through-holes. These holes will allow greater capacity to collect lubricant, which build up a lubrication film at the start of movement and reduce the friction. It is suitable for high load, lower speed application like construction, transport, and agriculture machinery.

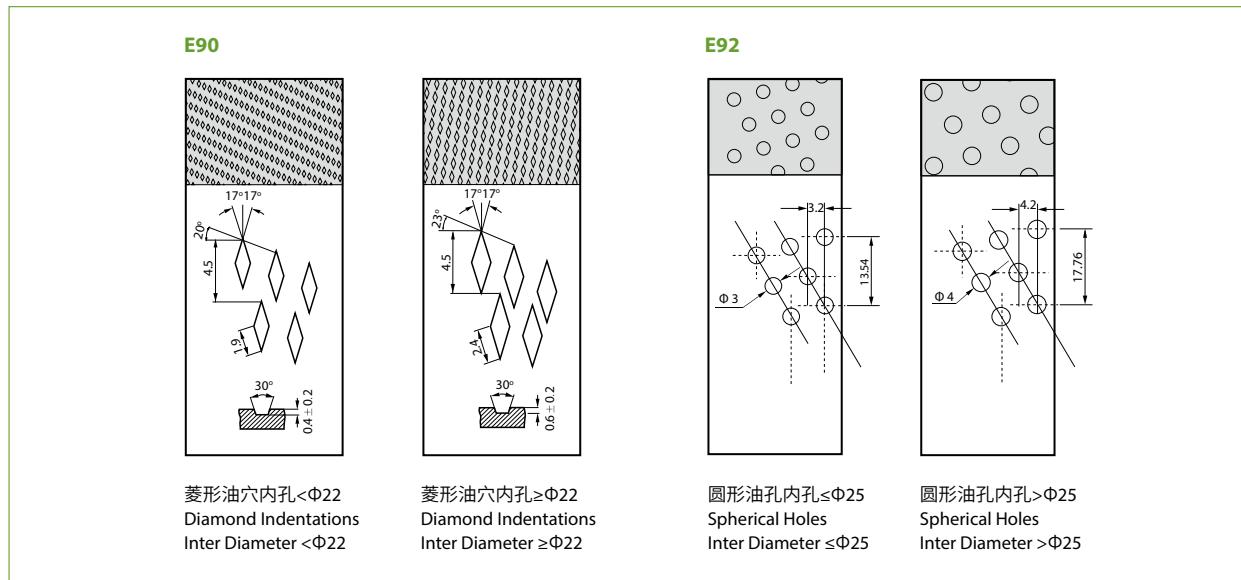
### 1.3 E90/E92 产品化学成分 E90/E92 Chemical Composition

型号 Part No	材料 Material	铜 Cu	锡 Sn	磷 P	铅 Pb	锌 Zn
E90	CuSn8	91.3%	8.5%	0.2%	/	/
E92	CuSn8	91.3%	8.5%	0.2%	/	/

### 1.4 E90/E92 产品技术参数 E90/E92 Material Characteristics

产品技术参数		Material Characteristics	
<b>最大承载 P</b>	<b>Max. Load Capacity</b>		
静载	Static Load	N/mm <sup>2</sup>	120
动载	Dynamic Load	N/mm <sup>2</sup>	40
<b>最高线速度 V</b>	<b>Max. Speed</b>		
E90		m/s	2.0
E92		m/s	>2.5
<b>最高PV值(干摩擦)</b>	<b>Max. PV Value</b>	N/mm <sup>2</sup> · m/s	2.8
抗拉强度	Tensile Strength	N/mm <sup>2</sup>	450
抗压强度	Yiled Point	N/mm <sup>2</sup>	250
硬 度	Hardness	HB	90-120
延伸率	Elongation		40%
摩擦系数	Coefficient of Friction	$\mu$	0.08~0.25
使用温度	Operating Temperature Range	°C	-100~200
导热系数	Thermal Conductivity	w/m · k	60
热膨胀系数	Coefficient of Thermal Expansion	$\lambda_{ST}$	$15 \times 10^{-6}$

### 1.5 E90/E92 标准油穴/油孔 E90/E92 Oil Indentations/Holes





## 1.6 E90A 产品介绍 E90A Brief Description

E90A轴承是以高密度铜合金（CuSn8）为基体材质卷制而成的具有承载能力大，耐磨性能好的特点。基于铜易加工的良好性能和先进的工装模具，E90A轴承可以在带材表面加工出适应各种工况条件的油穴(标准产品为菱形油穴)，油槽等，使轴承在使用中可储存大量的润滑油脂，在工作初期形成油膜，降低摩擦系数，工作中延长加油间隔周期，有效提高轴承使用寿命。与传统的铜套相比，E90A轴承具有密度高、薄壁、低重、负载压力大、长寿命，经济等优点，主要应用于农业机械、森林机械、工程机械、采矿机械等领域。

E90A bronze wrapped bushings are made of entirely bronze CuSn8. Because of material properties, the working surface rolled with diamond Indentations (standard Indentations) or stamped oil grooves according to detailed application. And it also has good performance of anti-corrosion caused by chemical and environments. During the operation, the grease & oil will be released from the indentations, which allow for long-term lubrication. Compare with machined bronze bearings; E90A can offer some advantages including thin wall, lower weight, cheaper cost, high load etc. It is suitable for high load, lower speed application like construction, transport, and agriculture machinery.



## 1.7 E92A 产品介绍 E92A Brief Description

E92A 轴承是以 (CuSn8) 为基体材质，表面排布规则的油孔，可在装配前或装配后涂抹油脂，以便在工作中易形成转移油膜，降低摩擦系数。产品具有如下优点：高承载、可用于苛刻的使用环境、优异的润滑性能、具有油脂储存量大、免维护周期长、比传统滑动轴承寿命长等。产品于按来图制造、实际要求设计、内外径可设计有油槽、加密封圈、更高硬度等。

产品被广泛应用于农业机械、森林机械、工程机械等。

E92A are wrapped of cold formable tin copper, which will let bearings obtain exceptional material properties. Oil holes are punched for standard bearings, these holes will allow greater capacity to collect lubricant, which rapidly build up a lubrication film at the movement of start and reduce the friction. The kind of bearings has many benefits like high load capacity, excelled lubrication performance, high thermal conductivity etc. It is suitable for high load, slow movements application like construction machinery, forest machinery, dumpers, hydraulic cranes, transport, and agriculture machinery.



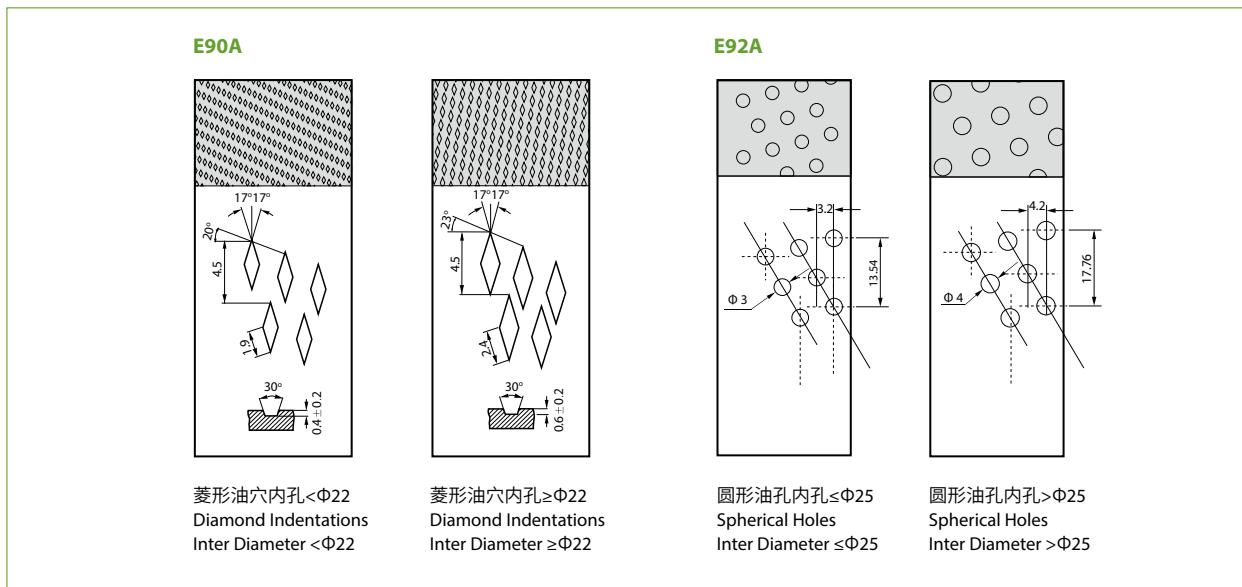
## 1.8 E90A/E92A 产品化学成分 E90A/E92A Chemical Composition

型号 Part No	材料 Material	铜 Cu	锡 Sn	磷 P	铅 Pb	锌 Zn
E90A	CuSn8	91.3%	8.5%	0.2%	/	/
E92A	CuSn8	91.3%	8.5%	0.2%	/	/

## 1.9 E90A/E92A 产品技术参数 E90A/E92A Material Characteristics

产品技术参数		Material Characteristics	
<b>最大承载 P</b>	<b>Max. Load Capacity</b>		
速度 0 m/s	Speed 0 m/s	N/mm <sup>2</sup>	280
速度 0.01 m/s	Speed 0.01 m/s	N/mm <sup>2</sup>	80--120
速度 2.0 m/s	Speed 2.0 m/s	N/mm <sup>2</sup>	30--40
<b>最高线速度 V</b>	<b>Max. Speed</b>	m/s	2.5
抗拉强度	Tensile Strength	N/mm <sup>2</sup>	450
抗压强度	Yiled Point	N/mm <sup>2</sup>	300
硬 度	Hardness	HB	125--150
摩擦系数	Coefficient of Friction	$\mu$	0.08~0.25
使用温度	Operation Temperature Range	°C	-100~200

## 1.10 E90A/E92A 标准油穴/油孔 E90A/E92A Oil Indentations/Holes



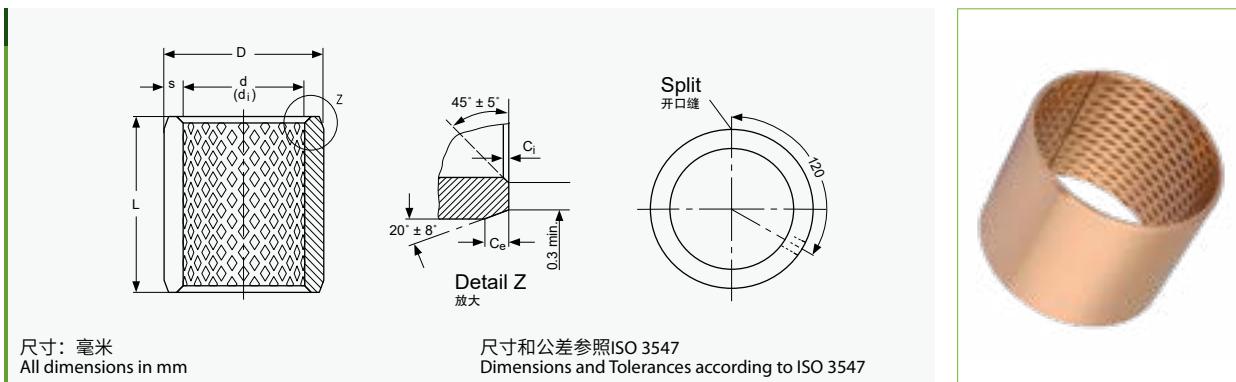


## 2 规格和公差

### Specification & Tolerance

#### 2.1 E90/E90A 直套规格及公差

#### E90/E90A Sleeve Bushing Specification & Tolerance



内外倒角尺寸表  
Inside & Outide Chamfers

直套型号标注方式  
Bushing Symbol

壁厚 Wall thickness S	内倒角 Inside Chamfer $C_i$	外倒角 Outside Chamfer $C_e$
1.00	0.30±0.20	0.60±0.40
1.50	0.40±0.30	0.60±0.40
2.00	0.40±0.30	1.20±0.40
2.50	0.60±0.30	1.80±0.60

直套型号标注方式 Bushes Symbol	E9 - □	× ×	× ×
直套型号 Bushing Type			
直套内径 Bushing I.D.			
直套高度 Bushing Length			

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft-Φd <sub>s</sub>	装配后内孔尺寸 Φd <sub>i</sub> (H9)	外径 D	装配座孔 Housing-ΦD <sub>H</sub>	理论外径公差 O.D. ΦD <sub>t</sub>	ID<80 L±0.25 ID>80 L±0.50	
10	9.987 9.972	10.036 10.000	12	12.018 12.000		10	E90/E90A 1010
						15	E90/E90A 1015
						20	E90/E90A 1020
12	11.984 11.966	12.043 12.000	14	14.018 14.000		10	E90/E90A 1210
						15	E90/E90A 1215
						20	E90/E90A 1220
14	13.984 13.966	14.043 14.000	16	16.018 16.000	+0.065 +0.030	10	E90/E90A 1410
						15	E90/E90A 1415
						20	E90/E90A 1420
						25	E90/E90A 1425
						10	E90/E90A 1510
15	14.984 14.966	15.043 15.000	17	17.018 17.000		15	E90/E90A 1515
						20	E90/E90A 1520
						25	E90/E90A 1525
						10	E90/E90A 1610
16	15.984 15.966	16.043 16.000	18	18.018 18.000		15	E90/E90A 1615
						20	E90/E90A 1620
						25	E90/E90A 1625

Tolerance



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
18	17.984 17.966	18.043 18.000	20	20.021 20.000	+0.065 +0.030	10	E90/E90A 1810
						15	E90/E90A 1815
						20	E90/E90A 1820
						25	E90/E90A 1825
20	19.980 19.959	20.052 20.000	23	23.021 23.000		10	E90/E90A 2010
						15	E90/E90A 2015
						20	E90/E90A 2020
						25	E90/E90A 2025
22	21.980 21.959	22.052 22.000	25	25.021 25.000		10	E90/E90A 2210
						15	E90/E90A 2215
						20	E90/E90A 2220
						25	E90/E90A 2225
24	23.980 23.959	24.052 24.000	27	27.021 27.000		10	E90/E90A 2410
						15	E90/E90A 2415
						20	E90/E90A 2420
						25	E90/E90A 2425
25	24.980 24.959	25.052 25.000	28	28.021 28.000	+0.075 +0.035	10	E90/E90A 2510
						15	E90/E90A 2515
						20	E90/E90A 2520
						25	E90/E90A 2525
28	27.980 27.959	28.052 28.000	32	32.025 32.000		10	E90/E90A 2810
						15	E90/E90A 2815
						20	E90/E90A 2820
						25	E90/E90A 2825
30	29.980 29.959	30.052 30.000	34	34.025 34.000		10	E90/E90A 3010
						15	E90/E90A 3020
						20	E90/E90A 3025
						25	E90/E90A 3030
32	31.975 31.950	32.062 32.000	36	36.025 36.000	+0.085 +0.045	10	E90/E90A 3210
						15	E90/E90A 3220
						20	E90/E90A 3225
						25	E90/E90A 3230



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
32	31.975 31.950	32.062 32.000	36	36.025 36.000		35	E90/E90A 3235
						40	E90/E90A 3240
						50	E90/E90A 3250
						15	E90/E90A 3515
35	34.975 34.950	35.062 35.000	39	39.025 39.000		20	E90/E90A 3525
						25	E90/E90A 3530
						35	E90/E90A 3535
						40	E90/E90A 3540
						20	E90/E90A 4020
						25	E90/E90A 4025
						30	E90/E90A 4030
						35	E90/E90A 4035
40	39.975 39.950	40.062 40.000	44	44.025 44.000	+0.085 +0.045	40	E90/E90A 4040
						50	E90/E90A 4050
						20	E90/E90A 4520
						25	E90/E90A 4525
						30	E90/E90A 4530
						35	E90/E90A 4535
						40	E90/E90A 4540
						50	E90/E90A 4550
						20	E90/E90A 5020
						25	E90/E90A 5025
45	44.975 44.950	45.062 45.000	50	50.025 50.000		30	E90/E90A 5030
						35	E90/E90A 5035
						40	E90/E90A 5040
						50	E90/E90A 5050
						60	E90/E90A 5060
						20	E90/E90A 5520
						25	E90/E90A 5525
						30	E90/E90A 5530
50	49.975 49.950	50.062 50.000	55	55.030 55.000	+0.100 +0.055	35	E90/E90A 5535
						40	E90/E90A 5540
						50	E90/E90A 5550
						60	E90/E90A 5560
55	54.970 54.940	55.074 55.000	60	60.030 60.000		20	E90/E90A 5560
						25	
						30	
						35	
						40	
						50	
						60	



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
60	59.970 59.940	60.074 60.000	65	65.030 65.000		25	E90/E90A 6025
						30	E90/E90A 6030
						35	E90/E90A 6035
						40	E90/E90A 6040
						50	E90/E90A 6050
						60	E90/E90A 6060
						70	E90/E90A 6070
65	64.970 64.940	65.074 65.000	70	70.030 70.000		30	E90/E90A 6530
						35	E90/E90A 6535
						40	E90/E90A 6540
						50	E90/E90A 6550
						60	E90/E90A 6560
						70	E90/E90A 6570
						80	E90/E90A 6580
70	69.970 69.940	70.074 70.000	75	75.030 75.000	+0.100 +0.055	30	E90/E90A 7030
						35	E90/E90A 7035
						40	E90/E90A 7040
						50	E90/E90A 7050
						60	E90/E90A 7060
						70	E90/E90A 7070
						80	E90/E90A 7080
75	74.970 74.940	75.074 75.000	80	80.030 80.000		30	E90/E90A 7530
						35	E90/E90A 7535
						40	E90/E90A 7540
						50	E90/E90A 7550
						60	E90/E90A 7560
						70	E90/E90A 7570
						80	E90/E90A 7580
80	79.964 79.929	80.074 80.000	85	85.035 85.000		30	E90/E90A 8030
						35	E90/E90A 8035
						40	E90/E90A 8040
						50	E90/E90A 8040
						60	E90/E90A 8060
						70	E90/E90A 8070
						80	E90/E90A 8080



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
85	84.964 84.929	85.087 85.000	90	90.035 90.000		30	E90/E90A 8530
						35	E90/E90A 8535
						40	E90/E90A 8540
						50	E90/E90A 8550
						60	E90/E90A 8560
						70	E90/E90A 8570
						80	E90/E90A 8580
						90	E90/E90A 8590
						30	E90/E90A 9030
90	89.964 89.929	90.087 90.000	95	95.035 95.000		35	E90/E90A 9035
						40	E90/E90A 9040
						50	E90/E90A 9050
						60	E90/E90A 9060
						70	E90/E90A 9070
						80	E90/E90A 9080
						90	E90/E90A 9090
						40	E90/E90A 9540
						50	E90/E90A 9550
95	94.964 94.929	95.087 95.000	100	100.035 100.000	+0.120 +0.070	60	E90/E90A 9560
						70	E90/E90A 9570
						80	E90/E90A 9580
						90	E90/E90A 9590
						100	E90/E90A 95100
						50	E90/E90A 10050
						60	E90/E90A 10060
						70	E90/E90A 10070
						80	E90/E90A 10080
100	99.964 99.929	100.087 100.000	105	105.035 105.000		90	E90/E90A 10090
						100	E90/E90A 100100
						50	E90/E90A 10550
						60	E90/E90A 10560
						70	E90/E90A 10570
						80	E90/E90A 10580
						90	E90/E90A 10590
						100	E90/E90A 105100
105	104.964 104.929	105.087 105.000	110	110.035 110.000			



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
110	109.964 109.929	110.087 110.000	115	115.035 115.000		50	E90/E90A 11050
						60	E90/E90A 11060
						70	E90/E90A 11070
						80	E90/E90A 11080
						90	E90/E90A 11090
						100	E90/E90A 110100
115	114.964 114.929	115.087 115.000	120	120.035 120.000	+0.120 +0.070	50	E90/E90A 11550
						60	E90/E90A 11560
						70	E90/E90A 11570
						80	E90/E90A 11580
						90	E90/E90A 11590
						100	E90/E90A 115100
120	119.964 119.929	120.087 120.000	125	125.040 125.000		60	E90/E90A 12060
						70	E90/E90A 12070
						80	E90/E90A 12080
						90	E90/E90A 12090
						100	E90/E90A 120100
						60	E90/E90A 12560
125	124.957 124.917	125.100 125.000	130	130.040 130.000		70	E90/E90A 12570
						80	E90/E90A 12580
						90	E90/E90A 12590
						100	E90/E90A 125100
						60	E90/E90A 13060
						70	E90/E90A 13070
130	129.957 129.917	130.100 130.000	135	135.040 135.000	+0.170 +0.100	80	E90/E90A 13080
						90	E90/E90A 13090
						100	E90/E90A 130100
						60	E90/E90A 13560
						70	E90/E90A 13570
						80	E90/E90A 13580
135	134.957 134.917	135.100 135.000	140	140.040 140.000		90	E90/E90A 13590
						100	E90/E90A 135100
						60	E90/E90A 14060
						70	E90/E90A 14070
						80	E90/E90A 14080



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft-Φd <sub>s</sub>	装配后内孔尺寸 Φd <sub>i</sub> (H9)	外径 D	装配座孔 Housing-ΦD <sub>H</sub>	理论外径公差 O.D. ΦD <sub>t</sub>	ID<80 L±0.25	
						ID>80 L±0.50	
140	139.957 139.917	140.100 140.000	145	145.040 145.000		90	E90/E90A 14090
						95	E90/E90A 14095
						100	E90/E90A 140100
						60	E90/E90A 14560
145	144.957 144.917	145.100 145.000	150	150.040 150.000		70	E90/E90A 14570
						80	E90/E90A 14580
						90	E90/E90A 14590
						100	E90/E90A 145100
150	149.957 149.917	150.100 150.000	155	155.040 155.000		60	E90/E90A 15060
						70	E90/E90A 15070
						80	E90/E90A 15080
						90	E90/E90A 15090
155	154.957 154.917	155.100 155.000	160	160.040 160.000	+0.170 +0.100	100	E90/E90A 155100
						60	E90/E90A 15560
						70	E90/E90A 15570
						80	E90/E90A 15580
160	159.957 159.917	160.100 160.000	165	165.040 165.000		90	E90/E90A 15590
						100	E90/E90A 155100
						60	E90/E90A 16060
						70	E90/E90A 16070
165	164.957 164.917	165.100 165.000	170	170.040 170.000		80	E90/E90A 16080
						90	E90/E90A 16090
						100	E90/E90A 160100
						60	E90/E90A 16560
170	169.957 169.917	170.100 170.000	175	175.040 175.000		70	E90/E90A 16570
						80	E90/E90A 16580
						90	E90/E90A 16590
						100	E90/E90A 165100
175	174.957 174.917	175.100 175.000	180	180.040 180.000		60	E90/E90A 17560
						70	E90/E90A 17570



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No	
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25		
						ID>80 L±0.50		
175	174.957 174.917	175.100 175.000	180	180.040 180.000	+0.170 +0.100	80	E90/E90A 17580	
						85	E90/E90A 17585	
						90	E90/E90A 17590	
						100	E90/E90A 175100	
180	179.957 179.917	180.115 180.000	185	185.046 185.000		60	E90/E90A 18060	
						70	E90/E90A 18070	
						80	E90/E90A 18080	
						90	E90/E90A 18090	
						100	E90/E90A 180100	
185	184.950 184.904	185.115 185.000	190	190.046 190.000		60	E90/E90A 18560	
						65	E90/E90A 18565	
						70	E90/E90A 18570	
						80	E90/E90A 18580	
						90	E90/E90A 18590	
						100	E90/E90A 185100	
190	189.950 189.904	190.115 190.000	195	195.046 195.000		60	E90/E90A 19060	
						70	E90/E90A 19070	
						80	E90/E90A 19080	
						90	E90/E90A 19090	
						100	E90/E90A 190100	
195	194.950 194.904	195.115 195.000	200	200.046 200.000	+0.210 +0.130	60	E90/E90A 19560	
						70	E90/E90A 19570	
						80	E90/E90A 19580	
						90	E90/E90A 19590	
						100	E90/E90A 195100	
200	199.950 199.904	200.115 200.000	205	205.046 205.000		60	E90/E90A 20060	
						70	E90/E90A 20070	
						80	E90/E90A 20080	
						90	E90/E90A 20090	
						100	E90/E90A 200100	
205	204.950 204.904	205.115 205.000	210	210.046 210.000		60	E90/E90A 20560	
						70	E90/E90A 20570	
						80	E90/E90A 20580	
						90	E90/E90A 20590	
						100	E90/E90A 205100	



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
215	214.950 214.904	215.115 215.000	220	220.046 220.000		60	E90/E90A 21560
						70	E90/E90A 21570
						80	E90/E90A 21580
						90	E90/E90A 21590
						100	E90/E90A 215100
225	224.950 224.904	225.115 225.000	230	230.046 230.000		60	E90/E90A 22560
						70	E90/E90A 22570
						80	E90/E90A 22580
						90	E90/E90A 22590
						100	E90/E90A 225100
230	229.950 229.904	230.115 230.000	235	235.046 235.000	+0.210 +0.130	60	E90/E90A 23060
						70	E90/E90A 23070
						80	E90/E90A 23080
						90	E90/E90A 23090
						100	E90/E90A 230100
240	239.950 239.904	240.115 240.000	245	245.046 245.000		60	E90/E90A 24060
						70	E90/E90A 24070
						80	E90/E90A 24080
						90	E90/E90A 24090
						100	E90/E90A 240100
250	249.950 249.904	250.115 250.000	255	255.052 255.000		60	E90/E90A 25060
						70	E90/E90A 25070
						80	E90/E90A 25080
						90	E90/E90A 25090
						100	E90/E90A 250100
260	259.944 259.892	260.130 260.000	265	265.052 265.000	+0.260 +0.170	60	E90/E90A 26060
						70	E90/E90A 26070
						80	E90/E90A 26080
						90	E90/E90A 26090
						100	E90/E90A 260100
270	269.944 269.892	270.130 270.000	275	275.052 275.000		60	E90/E90A 27060
						70	E90/E90A 27070
						80	E90/E90A 27080
						90	E90/E90A 27090
						100	E90/E90A 270100

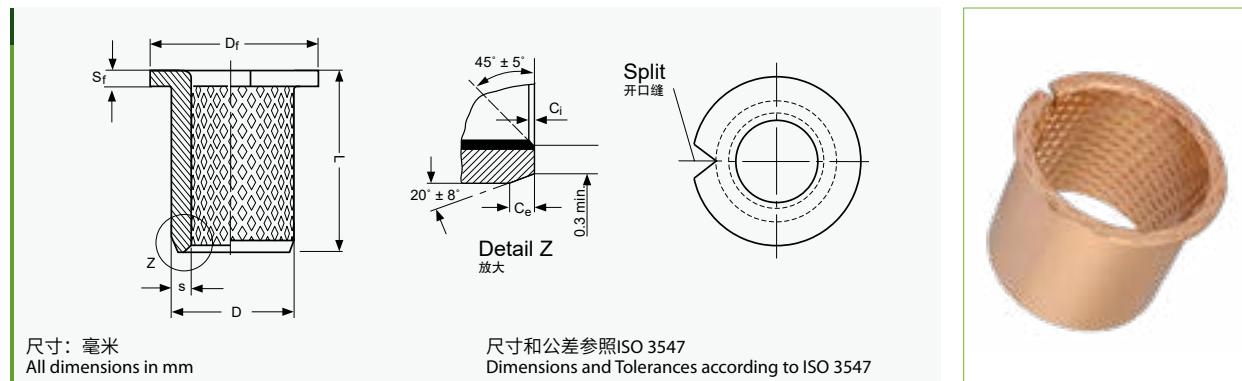


内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
280	279.944 279.892	280.130 280.000	285	285.052 285.000	+0.260 +0.170	60	E90/E90A 28060
						70	E90/E90A 28070
						80	E90/E90A 28080
						90	E90/E90A 28090
						100	E90/E90A 280100
290	289.944 289.892	290.130 290.000	295	295.052 295.000	+0.260 +0.170	60	E90/E90A 29060
						70	E90/E90A 29070
						80	E90/E90A 29080
						90	E90/E90A 29090
						100	E90/E90A 290100
300	299.944 289.892	300.130 300.000	305	305.052 305.000		60	E90/E90A 30060
						70	E90/E90A 30070
						80	E90/E90A 30080
						90	E90/E90A 30090
						100	E90/E90A 300100



## 2.2 E90F/E90AF 翻边规格及公差

### E90F/E90AF Flange Bushing Specification & Tolerance



**内外倒角尺寸表**  
**Inside & Outide Chamfers**

壁厚 Wall thickness S	内倒角 Inside Chamfer $C_i$	外倒角 Outside Chamfer $C_e$
1.00	$0.30 \pm 0.20$	$0.60 \pm 0.40$
1.50	$0.40 \pm 0.30$	$0.60 \pm 0.40$
2.00	$0.40 \pm 0.30$	$1.20 \pm 0.40$
2.50	$0.60 \pm 0.30$	$1.80 \pm 0.60$

**翻边型号标注方式**  
**Bushing Symbol**

直套型号标注方式 Bushes Symbol	E90 □ - F	× ×	× ×
直套型号 Bushing Type			
直套内径 Bushing I.D.			
直套高度 Bushing Length			

内径 d	装配轴径 Shaft-Φd <sub>s</sub>	内径 Internal Diameter		外径 External Diameter			法兰外径 Flang Φ D <sub>f</sub>	高度 Length ID<80 L±0.25 ID>80 L±0.50	型号 Part No
		内径 d	装配后内孔尺寸 Φd(H9)	外径 D	装配座孔 Housing-ΦD <sub>H</sub>	理论外径公差 O.D. ΦD <sub>t</sub>			
25	24.980 24.959	25.052 25.000	28	28.021 28.000	+0.075 +0.035	35	15	E90F/E90AF 2515	
							20	E90F/E90AF 2520	
							25	E90F/E90AF 2525	
							20	E90F/E90AF 3020	
30	29.980 29.959	30.052 30.000	34	34.025 34.000	45	20 25 30 35	20	E90F/E90AF 3025	
							25	E90F/E90AF 3020	
							30	E90F/E90AF 3520	
							35	E90F/E90AF 3525	
35	34.975 34.950	35.062 35.000	39	39.025 39.000	50	20 25 30 35 40	20	E90F/E90AF 3520	
							25	E90F/E90AF 3525	
							30	E90F/E90AF 3530	
							35	E90F/E90AF 3535	
40	39.975 39.950	40.062 40.000	44	44.025 44.000	+0.085 +0.045	55	25 30 35 40	E90F/E90AF 4025	
							30	E90F/E90AF 4030	
							35	E90F/E90AF 4035	
							40	E90F/E90AF 4040	
45	44.975 44.950	45.062 45.000	50	50.025 50.000	60	30 35 40 50	30	E90F/E90AF 4530	
							35	E90F/E90AF 4535	
							40	E90F/E90AF 4540	
							50	E90F/E90AF 4550	

Tolerance



内径 Internal Diameter			外径 External Diameter			法兰外径 Flang Ø D <sub>f</sub>	高度 Length ID<80 L±0.25	型号 Part No
内径 d	装配轴径 Shaft-Ød <sub>s</sub>	装配后内孔尺寸 Ød <sub>i</sub> (H9)	外径 D	装配座孔 Housing-ØD <sub>h</sub>	理论外径公差 O.D. ØD <sub>t</sub>			
50	49.975 49.950	50.062 50.000	55	55.030 55.000	+0.085 +0.045	65	30	E90F/E90AF 5030
							35	E90F/E90AF 5035
							40	E90F/E90AF 5040
							50	E90F/E90AF 5050
55	54.970 54.940	55.074 55.000	60	60.030 60.000		70	30	E90F/E90AF 5530
							35	E90F/E90AF 5535
							40	E90F/E90AF 5540
							50	E90F/E90AF 5550
60	59.970 59.940	60.074 60.000	65	65.030 65.000		75	30	E90F/E90AF 6030
							35	E90F/E90AF 6035
							40	E90F/E90AF 6040
							50	E90F/E90AF 6050
65	64.970 64.940	65.074 65.000	70	70.030 70.000		80	30	E90F/E90AF 6530
							35	E90F/E90AF 6535
							40	E90F/E90AF 6540
							50	E90F/E90AF 6550
70	69.970 69.940	70.074 70.000	75	75.030 75.000	+0.100 +0.055	85	30	E90F/E90AF 7030
							35	E90F/E90AF 7035
							40	E90F/E90AF 7040
							50	E90F/E90AF 7050
75	74.970 74.940	75.074 75.000	80	80.030 80.000		90	30	E90F/E90AF 7535
							35	E90F/E90AF 7540
							50	E90F/E90AF 7550
							60	E90F/E90AF 7560
80	79.964 79.929	80.074 80.000	85	85.035 85.000		100	30	E90F/E90AF 8040
							40	E90F/E90AF 8050
							50	E90F/E90AF 8060
							60	E90F/E90AF 8070
90	89.964 89.929	90.087 90.000	95	95.035 95.000	+0.120 +0.070	110	30	E90F/E90AF 9050
							60	E90F/E90AF 9060



Tolerance

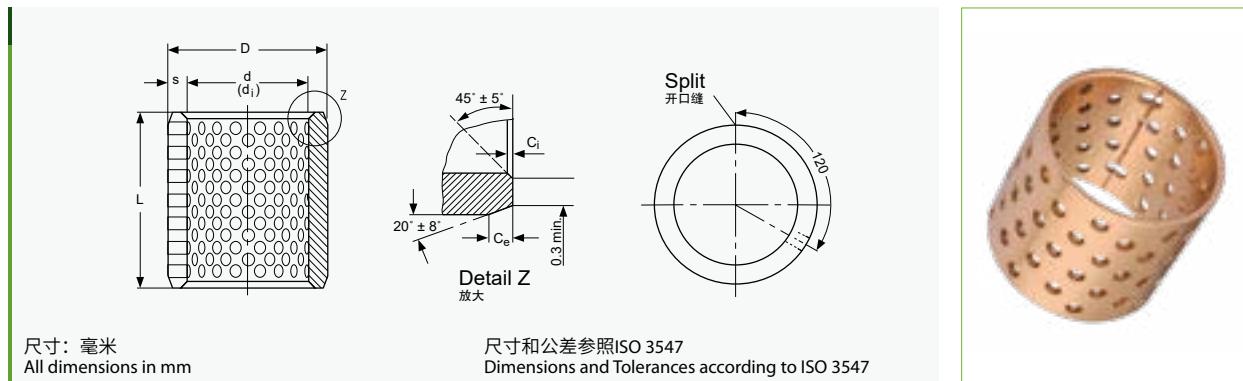
内径 Internal Diameter			外径 External Diameter			法兰外径 Flang $\Phi D_f$	高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$			
95	94.964 94.929	95.087 95.000	100	100.035 100.000		115	70	E90F/E90AF 9070
							80	E90F/E90AF 9080
							90	E90F/E90AF 9090
100	99.964 99.929	100.087 100.000	105	105.035 105.000		120	50	E90F/E90AF 10050
							60	E90F/E90AF 10060
							70	E90F/E90AF 10070
							80	E90F/E90AF 10080
							90	E90F/E90AF 10090
110	109.964 109.929	110.087 110.000	115	115.035 110.000		130	50	E90F/E90AF 11050
							60	E90F/E90AF 11060
							70	E90F/E90AF 11070
							80	E90F/E90AF 11080
							90	E90F/E90AF 11090
120	119.964 119.929	120.087 120.000	125	125.040 125.000		140	60	E90F/E90AF 12060
							70	E90F/E90AF 12070
							80	E90F/E90AF 12080
							90	E90F/E90AF 12090
130	129.957 129.917	130.100 130.000	135	135.040 135.000		155	60	E90F/E90AF 13060
							70	E90F/E90AF 13070
							80	E90F/E90AF 13080
							90	E90F/E90AF 13090
140	139.957 139.917	140.100 140.000	145	145.040 145.000		165	60	E90F/E90AF 14060
							70	E90F/E90AF 14070
							80	E90F/E90AF 14080
							90	E90F/E90AF 14090
150	149.957 149.917	150.100 150.000	155	155.040 155.000		180	60	E90F/E90AF 15060
							70	E90F/E90AF 15070
							80	E90F/E90AF 15080
							90	E90F/E90AF 15090
160	159.957 159.917	160.100 160.000	165	165.040 165.000		190	60	E90F/E90AF 16060
							70	E90F/E90AF 16070
							80	E90F/E90AF 16080
							90	E90F/E90AF 16090
170	169.957 169.917	170.100 170.000	175	175.040 175.000		200	60	E90F/E90AF 17060
							70	E90F/E90AF 17070



内径 Internal Diameter			外径 External Diameter			法兰外径 Flang Ø D <sub>f</sub>	高度 Length	型号 Part No
内径 d	装配轴径 Shaft-Ød <sub>s</sub>	装配后内孔尺寸 Ød <sub>i</sub> (H9)	外径 D	装配座孔 Housing-ØD <sub>H</sub>	理论外径公差 O.D. ØD <sub>t</sub>			
ID<80 L±0.25	ID>80 L±0.50							
180	179.957 179.917	180.115 180.000	185	185.046 185.000	+0.170 +0.100	215	60	E90F/E90AF 18060
							70	E90F/E90AF 18070
							80	E90F/E90AF 18080
							90	E90F/E90AF 18090
190	189.950 189.904	190.115 190.000	195	195.046 195.000	+0.210 +0.130	225	60	E90F/E90AF 19060
							70	E90F/E90AF 19070
							80	E90F/E90AF 19080
							90	E90F/E90AF 19090
200	199.950 199.904	200.115 200.000	205	205.046 205.000	+0.210 +0.130	235	60	E90F/E90AF 20060
							70	E90F/E90AF 20070
							80	E90F/E90AF 20080
							90	E90F/E90AF 20090
225	224.950 224.904	225.115 225.000	230	230.046 230.000	+0.260 +0.170	260	60	E90F/E90AF 22560
							70	E90F/E90AF 22570
							80	E90F/E90AF 22580
							90	E90F/E90AF 22590
250	249.950 249.904	250.115 250.000	255	255.052 255.000	+0.260 +0.170	290	60	E90F/E90AF 25060
							70	E90F/E90AF 25070
							80	E90F/E90AF 25080
							90	E90F/E90AF 25090
265	264.944 264.892	265.130 265.000	270	270.052 270.000	+0.260 +0.170	305	60	E90F/E90AF 26560
							70	E90F/E90AF 26570
							80	E90F/E90AF 26580
							90	E90F/E90AF 26590
285	284.944 284.892	285.130 285.000	290	290.052 290.000	+0.260 +0.170	325	60	E90F/E90AF 28560
							70	E90F/E90AF 28570
							80	E90F/E90AF 28580
							90	E90F/E90AF 28590
300	299.944 299.892	300.130 300.000	305	305.052 305.000	+0.260 +0.170	340	60	E90F/E90AF 30060
							70	E90F/E90AF 30070
							80	E90F/E90AF 30080
							90	E90F/E90AF 30090



## 2.3 E92/E92A 直套规格及公差 E92/E92A Sleeve Bushing Specification & Tolerance



**内外倒角尺寸表**  
**Inside & Outsite Chamfers**

壁厚 Wall thickness S	内倒角 Inside Chamfer $C_i$	外倒角 Outside Chamfer $C_e$
1.00	$0.30 \pm 0.20$	$0.60 \pm 0.40$
1.50	$0.40 \pm 0.30$	$0.60 \pm 0.40$
2.00	$0.40 \pm 0.30$	$1.20 \pm 0.40$
2.50	$0.60 \pm 0.30$	$1.80 \pm 0.60$

**直套型号标注方式**  
**Bushing Symbol**

直套型号标注方式 Bushes Symbol	E92 - □	× ×	× ×
直套型号 Bushing Type			
直套内径 Bushing I.D.			
直套高度 Bushing Length			

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
10	9.987 9.972	10.036 10.000	12	12.018 12.000		ID>80 L±0.50	10 E92/E92A 1010
							15 E92/E92A 1015
							20 E92/E92A 1020
							10 E92/E92A 1210
12	11.984 11.966	12.043 12.000	14	14.018 14.000		+0.065 +0.030	15 E92/E92A 1215
							20 E92/E92A 1220
							10 E92/E92A 1410
							15 E92/E92A 1415
14	13.984 13.966	14.043 14.000	16	16.018 16.000		+0.065 +0.030	20 E92/E92A 1420
							25 E92/E92A 1425
							10 E92/E92A 1510
							15 E92/E92A 1515
15	14.984 14.966	15.043 15.000	17	17.018 17.000		+0.065 +0.030	20 E92/E92A 1520
							25 E92/E92A 1525
							10 E92/E92A 1610
							15 E92/E92A 1615
16	15.984 15.966	16.043 16.000	18	18.018 18.000		+0.065 +0.030	20 E92/E92A 1620
							25 E92/E92A 1625



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
18	17.984 17.996	18.043 18.000	20	20.021 20.000	+0.065 +0.030	10	E92/E92A 1810
						15	E92/E92A 1815
						20	E92/E92A 1820
						25	E92/E92A 1825
20	19.980 19.959	20.052 20.000	23	23.021 23.000		10	E92/E92A 2010
						15	E92/E92A 2015
						20	E92/E92A 2020
						25	E92/E92A 2025
22	21.980 21.959	22.052 22.000	25	25.021 25.000		10	E92/E92A 2210
						15	E92/E92A 2215
						20	E92/E92A 2220
						25	E92/E92A 2225
24	23.980 23.959	24.052 24.000	27	27.021 27.000		10	E92/E92A 2230
						15	E92/E92A 2415
						20	E92/E92A 2420
						25	E92/E92A 2425
25	24.980 24.959	25.052 25.000	28	28.021 28.000	+0.075 +0.035	10	E92/E92A 2430
						15	E92/E92A 2515
						20	E92/E92A 2520
						25	E92/E92A 2525
28	27.980 27.959	28.052 28.000	32	32.025 32.000		10	E92/E92A 2530
						15	E92/E92A 2815
						20	E92/E92A 2820
						25	E92/E92A 2825
30	29.980 29.959	30.052 30.000	34	34.025 34.000		10	E92/E92A 2830
						15	E92/E92A 3015
						20	E92/E92A 3020
						25	E92/E92A 3025
32	31.975 31.950	32.062 32.000	36	36.025 36.000	+0.085 +0.045	10	E92/E92A 3030
						15	E92/E92A 3035
						20	E92/E92A 3040
						25	E92/E92A 3215
						10	E92/E92A 3220
						15	E92/E92A 3225
						20	E92/E92A 3230
						25	E92/E92A 3235



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft-Φd <sub>s</sub>	装配后内孔尺寸 Φd <sub>i</sub> (H9)	外径 D	装配座孔 Housing-ΦD <sub>H</sub>	理论外径公差 O.D. ΦD <sub>t</sub>	ID<80 L±0.25	
						ID>80 L±0.50	
32	31.975 31.950	32.062 32.000	36	36.025 36.000		35	E92/E92A 3235
						40	E92/E92A 3240
						50	E92/E92A 3250
						15	E92/E92A 3515
35	34.975 34.950	35.062 35.000	39	39.025 39.000		20	E92/E92A 3525
						25	E92/E92A 3530
						35	E92/E92A 3535
						40	E92/E92A 3540
						20	E92/E92A 4020
						25	E92/E92A 4025
						30	E92/E92A 4030
						35	E92/E92A 4035
40	39.975 39.950	40.062 40.000	44	44.025 44.000	+0.085 +0.045	40	E92/E92A 4040
						50	E92/E92A 4050
						20	E92/E92A 4520
						25	E92/E92A 4525
						30	E92/E92A 4530
						35	E92/E92A 4535
						40	E92/E92A 4540
						50	E92/E92A 4550
						20	E92/E92A 5020
						25	E92/E92A 5025
45	44.975 44.950	45.062 45.000	50	50.025 50.000		30	E92/E92A 5030
						35	E92/E92A 5035
						40	E92/E92A 5040
						50	E92/E92A 5050
						60	E92/E92A 5060
						20	E92/E92A 5520
						25	E92/E92A 5525
						30	E92/E92A 5530
50	49.975 49.950	50.062 50.000	55	55.030 55.000	+0.100 +0.055	35	E92/E92A 5535
						40	E92/E92A 5540
						50	E92/E92A 5550
						60	E92/E92A 5560
						20	E92/E92A 5560
						25	E92/E92A 5565
						30	E92/E92A 5570
55	54.970 54.940	55.074 55.000	60	60.030 60.000	+0.100 +0.055	35	E92/E92A 5575
						40	E92/E92A 5580
						50	E92/E92A 5585
						60	E92/E92A 5590
						20	E92/E92A 5590
						25	E92/E92A 5595



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
60	59.970 59.940	60.074 60.000	65	65.030 65.000		25	E92/E92A 6025
						30	E92/E92A 6030
						35	E92/E92A 6035
						40	E92/E92A 6040
						50	E92/E92A 6050
						60	E92/E92A 6060
						70	E92/E92A 6070
65	64.970 64.940	65.074 65.000	70	70.030 70.000		30	E92/E92A 6530
						35	E92/E92A 6535
						40	E92/E92A 6540
						50	E92/E92A 6550
						60	E92/E92A 6560
						70	E92/E92A 6570
						80	E92/E92A 6580
70	69.970 69.940	70.074 70.000	75	75.030 75.000	+0.100 +0.055	30	E92/E92A 7030
						35	E92/E92A 7035
						40	E92/E92A 7040
						50	E92/E92A 7050
						60	E92/E92A 7060
						70	E92/E92A 7070
						80	E92/E92A 7080
75	74.970 74.940	75.074 75.000	80	80.030 80.000		30	E92/E92A 7530
						35	E92/E92A 7535
						40	E92/E92A 7540
						50	E92/E92A 7550
						60	E92/E92A 7560
						70	E92/E92A 7570
						80	E92/E92A 7580
80	79.964 79.929	80.074 80.000	85	85.035 85.000		30	E92/E92A 8030
						35	E92/E92A 8035
						40	E92/E92A 8040
						50	E92/E92A 8040
						60	E92/E92A 8060
						70	E92/E92A 8070
						80	E92/E92A 8080



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
85	84.964 84.929	85.087 85.000	90	90.035 90.000		30	E92/E92A 8530
						35	E92/E92A 8535
						40	E92/E92A 8540
						50	E92/E92A 8550
						60	E92/E92A 8560
						70	E92/E92A 8570
						80	E92/E92A 8580
						90	E92/E92A 8590
						30	E92/E92A 9030
90	89.964 89.929	90.087 90.000	95	95.035 95.000		35	E92/E92A 9035
						40	E92/E92A 9040
						50	E92/E92A 9050
						60	E92/E92A 9060
						70	E92/E92A 9070
						80	E92/E92A 9080
						90	E92/E92A 9090
						40	E92/E92A 9540
						50	E92/E92A 9550
95	94.964 94.929	95.087 95.000	100	100.035 100.000	+0.120 +0.070	60	E92/E92A 9560
						70	E92/E92A 9570
						80	E92/E92A 9580
						90	E92/E92A 9590
						100	E92/E92A 95100
						50	E92/E92A 10050
						60	E92/E92A 10060
						70	E92/E92A 10070
						80	E92/E92A 10080
100	99.964 99.929	100.087 100.000	105	105.035 105.000		90	E92/E92A 10090
						100	E92/E92A 100100
						50	E92/E92A 10550
						60	E92/E92A 10560
						70	E92/E92A 10570
						80	E92/E92A 10580
						90	E92/E92A 10590
						100	E92/E92A 105100
105	104.964 104.929	105.087 105.000	110	110.035 110.000			



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
110	109.964 109.929	110.087 110.000	115	115.035 115.000		50	E92/E92A 11050
						60	E92/E92A 11060
						70	E92/E92A 11070
						80	E92/E92A 11080
						90	E92/E92A 11090
						100	E92/E92A 110100
115	114.964 114.929	115.087 115.000	120	120.035 120.000	+0.120 +0.070	50	E92/E92A 11550
						60	E92/E92A 11560
						70	E92/E92A 11570
						80	E92/E92A 11580
						90	E92/E92A 11590
						100	E92/E92A 115100
120	119.964 119.929	120.087 120.000	125	125.040 125.000		60	E92/E92A 12060
						70	E92/E92A 12070
						80	E92/E92A 12080
						90	E92/E92A 12090
						100	E92/E92A 120100
						60	E92/E92A 12560
125	124.957 124.917	125.100 125.000	130	130.040 130.000		70	E92/E92A 12570
						80	E92/E92A 12580
						90	E92/E92A 12590
						100	E92/E92A 125100
						60	E92/E92A 13060
						70	E92/E92A 13070
130	129.957 129.917	130.100 130.000	135	135.040 135.000	+0.170 +0.100	80	E92/E92A 13080
						90	E92/E92A 13090
						100	E92/E92A 130100
						60	E92/E92A 13560
						70	E92/E92A 13570
						80	E92/E92A 13580
135	134.957 134.917	135.100 135.000	140	140.040 140.000		90	E92/E92A 13590
						100	E92/E92A 135100
						60	E92/E92A 14060
						70	E92/E92A 14070
						80	E92/E92A 14080



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft-Φd <sub>s</sub>	装配后内孔尺寸 Φd <sub>i</sub> (H9)	外径 D	装配座孔 Housing-ΦD <sub>H</sub>	理论外径公差 O.D. ΦD <sub>t</sub>	ID<80 L±0.25	
						ID>80 L±0.50	
140	139.957 139.917	140.100 140.000	145	145.040 145.000		90	E92/E92A 14090
						95	E92/E92A 14095
						100	E92/E92A 140100
						60	E92/E92A 14560
145	144.957 144.917	145.100 145.000	150	150.040 150.000		70	E92/E92A 14570
						80	E92/E92A 14580
						90	E92/E92A 14590
						100	E92/E92A 145100
150	149.957 149.917	150.100 150.000	155	155.040 155.000		60	E92/E92A 15060
						70	E92/E92A 15070
						80	E92/E92A 15080
						90	E92/E92A 15090
155	154.957 154.917	155.100 155.000	160	160.040 160.000	+0.170 +0.100	100	E92/E92A 155100
						60	E92/E92A 15560
						70	E92/E92A 15570
						80	E92/E92A 15580
160	159.957 159.917	160.100 160.000	165	165.040 165.000		90	E92/E92A 15590
						100	E92/E92A 155100
						60	E92/E92A 16060
						70	E92/E92A 16070
165	164.957 164.917	165.100 165.000	170	170.040 170.000		80	E92/E92A 16080
						90	E92/E92A 16090
						100	E92/E92A 160100
						60	E92/E92A 16560
170	169.957 169.917	170.100 170.000	175	175.040 175.000		70	E92/E92A 16570
						80	E92/E92A 16580
						90	E92/E92A 16590
						100	E92/E92A 165100
175	174.957 174.917	175.100 175.000	180	180.040 180.000		60	E92/E92A 17560
						70	E92/E92A 17570



内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No	
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25		
						ID>80 L±0.50		
175	174.957 174.917	175.100 175.000	180	180.040 180.000	+0.170 +0.100	80	E92/E92A 17580	
						85	E92/E92A 17585	
						90	E92/E92A 17590	
						100	E92/E92A 175100	
180	179.957 179.917	180.115 180.000	185	185.046 185.000		60	E92/E92A 18060	
						70	E92/E92A 18070	
						80	E92/E92A 18080	
						90	E92/E92A 18090	
						100	E92/E92A 180100	
185	184.950 184.904	185.115 185.000	190	190.046 190.000		60	E92/E92A 18560	
						65	E92/E92A 18565	
						70	E92/E92A 18570	
						80	E92/E92A 18580	
						90	E92/E92A 18590	
						100	E92/E92A 185100	
190	189.950 189.904	190.115 190.000	195	195.046 195.000		60	E92/E92A 19060	
						70	E92/E92A 19070	
						80	E92/E92A 19080	
						90	E92/E92A 19090	
						100	E92/E92A 190100	
195	194.950 194.904	195.115 195.000	200	200.046 200.000	+0.210 +0.130	60	E92/E92A 19560	
						70	E92/E92A 19570	
						80	E92/E92A 19580	
						90	E92/E92A 19590	
						100	E92/E92A 195100	
200	199.950 199.904	200.115 200.000	205	205.046 205.000		60	E92/E92A 20060	
						70	E92/E92A 20070	
						80	E92/E92A 20080	
						90	E92/E92A 20090	
						100	E92/E92A 200100	
205	204.950 204.904	205.115 205.000	210	210.046 210.000		60	E92/E92A 20560	
						70	E92/E92A 20570	
						80	E92/E92A 20580	
						90	E92/E92A 20590	
						100	E92/E92A 205100	



## Tolerance

内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
215	214.950 214.904	215.115 215.000	220	220.046 220.000		60	E92/E92A 21560
						70	E92/E92A 21570
						80	E92/E92A 21580
						90	E92/E92A 21590
						100	E92/E92A 215100
225	224.950 224.904	225.115 225.000	230	230.046 230.000		60	E92/E92A 22560
						70	E92/E92A 22570
						80	E92/E92A 22580
						90	E92/E92A 22590
						100	E92/E92A 225100
230	229.950 229.904	230.115 230.000	235	235.046 235.000	+0.210 +0.130	60	E92/E92A 23060
						70	E92/E92A 23070
						80	E92/E92A 23080
						90	E92/E92A 23090
						100	E92/E92A 230100
240	239.950 239.904	240.115 240.000	245	245.046 245.000		60	E92/E92A 24060
						70	E92/E92A 24070
						80	E92/E92A 24080
						90	E92/E92A 24090
						100	E92/E92A 240100
250	249.950 249.904	250.115 250.000	255	255.052 255.000		60	E92/E92A 25060
						70	E92/E92A 25070
						80	E92/E92A 25080
						90	E92/E92A 25090
						100	E92/E92A 250100
260	259.944 259.892	260.130 260.000	265	265.052 265.000	+0.260 +0.170	60	E92/E92A 26060
						70	E92/E92A 26070
						80	E92/E92A 26080
						90	E92/E92A 26090
						100	E92/E92A 260100
270	269.944 269.892	270.130 270.000	275	275.052 275.000		60	E92/E92A 27060
						70	E92/E92A 27070
						80	E92/E92A 27080
						90	E92/E92A 27090
						100	E92/E92A 270100

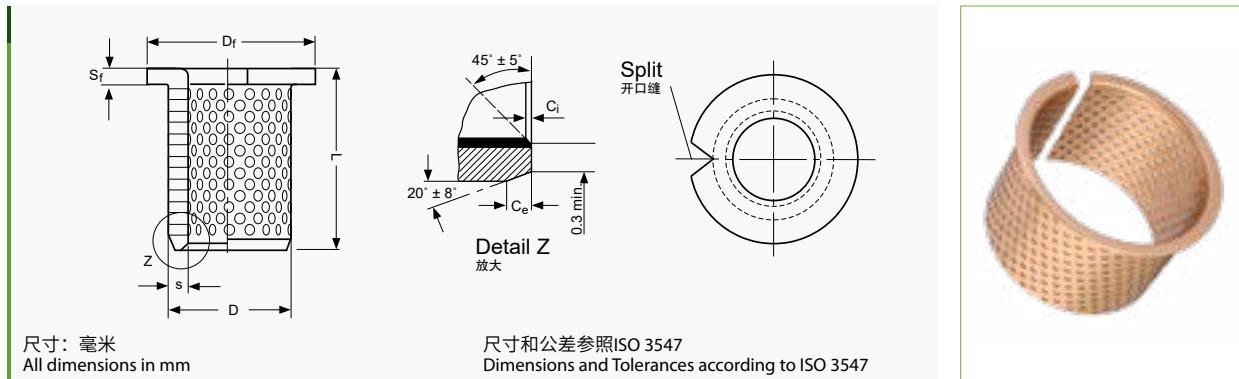


内径 Internal Diameter			外径 External Diameter			高度 Length	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$	ID<80 L±0.25	
						ID>80 L±0.50	
280	279.944 279.892	280.130 280.000	285	285.052 285.000	+0.260 +0.170	60	E92/E92A 28060
						70	E92/E92A 28070
						80	E92/E92A 28080
						90	E92/E92A 28090
						100	E92/E92A 280100
290	289.944 289.892	290.130 290.000	295	295.052 295.000	+0.260 +0.170	60	E92/E92A 29060
						70	E92/E92A 29070
						80	E92/E92A 29080
						90	E92/E92A 29090
						100	E92/E92A 290100
300	299.944 289.892	300.130 300.000	305	305.052 305.000		60	E92/E92A 30060
						70	E92/E92A 30070
						80	E92/E92A 30080
						90	E92/E92A 30090
						100	E92/E92A 300100



## 2.4 E92F/E92AF 翻边规格及公差

### E92F/E92AF Flange Bushing Specification & Tolerance



**内外倒角尺寸表**  
**Inside & Outide Chamfers**

**翻边型号标注方式**  
**Bushing Symbol**

壁厚 Wall thickness S	内倒角 Inside Chamfer $C_i$	外倒角 Outside Chamfer $C_e$
1.00	$0.30 \pm 0.20$	$0.60 \pm 0.40$
1.50	$0.40 \pm 0.30$	$0.60 \pm 0.40$
2.00	$0.40 \pm 0.30$	$1.20 \pm 0.40$
2.50	$0.60 \pm 0.30$	$1.80 \pm 0.60$

直套型号标注方式 Bushes Symbol	E9□ - F	× ×	× ×
直套型号 Bushing Type			
直套内径 Bushing I.D.			
直套高度 Bushing Length			

内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	内径 Internal Diameter			法兰外径 Flang $\Phi D_f$	高度 Length ID<80 L±0.25	型号 Part No
			外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$			
25	24.980 24.959	25.052 25.000	28	28.021 28.000	+0.075 +0.035	35	15	E92F/E92AF 2515
							20	E92F/E92AF 2520
							25	E92F/E92AF 2525
							20	E92F/E92AF 3020
30	29.980 29.959	30.052 30.000	34	34.025 34.000	45	20 25 30 35	20	E92F/E92AF 3025
							25	E92F/E92AF 3020
							30	E92F/E92AF 3520
							35	E92F/E92AF 3525
35	34.975 34.950	35.062 35.000	39	39.025 39.000	50	20 25 30 35 40	20	E92F/E92AF 3520
							25	E92F/E92AF 3525
							30	E92F/E92AF 3530
							35	E92F/E92AF 3535
40	39.975 39.950	40.062 40.000	44	44.025 44.000	+0.085 +0.045	55	25 30 35 40	E92F/E92AF 4025
							30	E92F/E92AF 4030
							35	E92F/E92AF 4035
							40	E92F/E92AF 4040
45	44.975 44.950	45.062 45.000	50	50.025 50.000	60	30 35 40 50	30	E92F/E92AF 4530
							35	E92F/E92AF 4535
							40	E92F/E92AF 4540
							50	E92F/E92AF 4550

Tolerance



内径 Internal Diameter			外径 External Diameter			法兰外径 Flang $\Phi D_f$	高度 Length ID<80 L±0.25	型号 Part No
内径 d	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 D	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$			
50	49.975 49.950	50.062 50.000	55	55.030 55.000	+0.085 +0.045	65	30	E92F/E92AF 5030
							35	E92F/E92AF 5035
							40	E92F/E92AF 5040
							50	E92F/E92AF 5050
55	54.970 54.940	55.074 55.000	60	60.030 60.000		70	30	E92F/E92AF 5530
							35	E92F/E92AF 5535
							40	E92F/E92AF 5540
							50	E92F/E92AF 5550
60	59.970 59.940	60.074 60.000	65	65.030 65.000		75	30	E92F/E92AF 6030
							35	E92F/E92AF 6035
							40	E92F/E92AF 6040
							50	E92F/E92AF 6050
65	64.970 64.940	65.074 65.000	70	70.030 70.000	+0.100 +0.055	80	30	E92F/E92AF 6530
							35	E92F/E92AF 6535
							40	E92F/E92AF 6540
							50	E92F/E92AF 6550
70	69.970 69.940	70.074 70.000	75	75.030 75.000		85	30	E92F/E92AF 7030
							35	E92F/E92AF 7035
							40	E92F/E92AF 7040
							50	E92F/E92AF 7050
75	74.970 74.940	75.074 75.000	80	80.030 80.000		90	30	E92F/E92AF 7535
							40	E92F/E92AF 7540
							50	E92F/E92AF 7550
							60	E92F/E92AF 7560
80	79.964 79.929	80.074 80.000	85	85.035 85.000		100	30	E92F/E92AF 8040
							40	E92F/E92AF 8050
							50	E92F/E92AF 8060
							60	E92F/E92AF 8070
90	89.964 89.929	90.087 90.000	95	95.035 95.000	+0.120 +0.070	110	30	E92F/E92AF 9050
							40	E92F/E92AF 9060



## Tolerance

内径 Internal Diameter			外径 External Diameter			法兰外径 Flang $\Phi D_f$	高度 Length ID<80 L±0.25	型号 Part No
内径 $d$	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 $D$	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$			
95	94.964 94.929	95.087 95.000	100	100.035 100.000		115	70	E92F/E92AF 9070
							80	E92F/E92AF 9080
							90	E92F/E92AF 9090
100	99.964 99.929	100.087 100.000	105	105.035 105.000		120	50	E92F/E92AF 10050
							60	E92F/E92AF 10060
							70	E92F/E92AF 10070
							80	E92F/E92AF 10080
							90	E92F/E92AF 10090
110	109.964 109.929	110.087 110.000	115	115.035 110.000		130	50	E92F/E92AF 11050
							60	E92F/E92AF 11060
							70	E92F/E92AF 11070
							80	E92F/E92AF 11080
							90	E92F/E92AF 11090
120	119.964 119.929	120.087 120.000	125	125.040 125.000		140	60	E92F/E92AF 12060
							70	E92F/E92AF 12070
							80	E92F/E92AF 12080
							90	E92F/E92AF 12090
130	129.957 129.917	130.100 130.000	135	135.040 135.000		155	60	E92F/E92AF 13060
							70	E92F/E92AF 13070
							80	E92F/E92AF 13080
							90	E92F/E92AF 13090
140	139.957 139.917	140.100 140.000	145	145.040 145.000		165	60	E92F/E92AF 14060
							70	E92F/E92AF 14070
							80	E92F/E92AF 14080
							90	E92F/E92AF 14090
150	149.957 149.917	150.100 150.000	155	155.040 155.000		180	60	E92F/E92AF 15060
							70	E92F/E92AF 15070
							80	E92F/E92AF 15080
							90	E92F/E92AF 15090
160	159.957 159.917	160.100 160.000	165	165.040 165.000		190	60	E92F/E92AF 16060
							70	E92F/E92AF 16070
							80	E92F/E92AF 16080
							90	E92F/E92AF 16090
170	169.957 169.917	170.100 170.000	175	175.040 175.000		200	60	E92F/E92AF 17060
							70	E92F/E92AF 17070



内径 Internal Diameter			外径 External Diameter			法兰外径 Flang $\Phi D_f$	高度 Length	型号 Part No
内径 $d$	装配轴径 Shaft- $\Phi d_s$	装配后内孔尺寸 $\Phi d_i(H9)$	外径 $D$	装配座孔 Housing- $\Phi D_h$	理论外径公差 O.D. $\Phi D_t$		ID<80 L±0.25	
							ID>80 L±0.50	
180	179.957 179.917	180.115 180.000	185	185.046 185.000	+0.170 +0.100	215	60	E92F/E92AF 18060
							70	E92F/E92AF 18070
							80	E92F/E92AF 18080
							90	E92F/E92AF 18090
190	189.950 189.904	190.115 190.000	195	195.046 195.000		225	60	E92F/E92AF 19060
							70	E92F/E92AF 19070
							80	E92F/E92AF 19080
							90	E92F/E92AF 19090
200	199.950 199.904	200.115 200.000	205	205.046 205.000	+0.210 +0.130	235	60	E92F/E92AF 20060
							70	E92F/E92AF 20070
							80	E92F/E92AF 20080
							90	E92F/E92AF 20090
225	224.950 224.904	225.115 225.000	230	230.046 230.000		260	60	E92F/E92AF 22560
							70	E92F/E92AF 22570
							80	E92F/E92AF 22580
							90	E92F/E92AF 22590
250	249.950 249.904	250.115 250.000	255	255.052 255.000		290	60	E92F/E92AF 25060
							70	E92F/E92AF 25070
							80	E92F/E92AF 25080
							90	E92F/E92AF 25090
265	264.944 264.892	265.130 265.000	270	270.052 270.000		305	60	E92F/E92AF 26560
							70	E92F/E92AF 26570
							80	E92F/E92AF 26580
							90	E92F/E92AF 26590
285	284.944 284.892	285.130 285.000	290	290.052 290.000	+0.260 +0.170	325	60	E92F/E92AF 28560
							70	E92F/E92AF 28570
							80	E92F/E92AF 28580
							90	E92F/E92AF 28590
300	299.944 299.892	300.130 300.000	305	305.052 305.000		340	60	E92F/E92AF 30060
							70	E92F/E92AF 30070
							80	E92F/E92AF 30080
							90	E92F/E92AF 30090



**3 轴公差表(250)**  
**Shaft Tolerance Table (250)**

>	≤	c9	d8	e7	e8	f7	g6	h5	h6	h7	h8	js6	js7	k6	m6	n6	p6	p7	r6	s6
-	3	-60 -85	-20 -34	-14 -24	-14 -28	-6 -16	-2 -8	0 -4	0 -6	0 -10	0 -14	±3	±5	+6 0	+8 +2	+10 +4	+12 +6	+16 +6	+16 +10	+20 +14
3	6	-70 -100	-30 -48	-20 -32	-20 -38	-10 -22	-4 -12	0 -5	0 -8	0 -12	0 -18	±4	±6	+9 +1	+12 +4	+16 +8	+20 +12	+24 +12	+23 +15	+27 +19
6	10	-80 -116	-40 -62	-25 -40	-25 -47	-13 -28	-5 -14	0 -6	0 -9	0 -15	0 -22	±4.5	±7	+10 +1	+15 +6	+19 +10	+24 +15	+30 +15	+28 +19	+32 +23
10	18	-95 -138	-50 -77	-32 -50	-32 -59	-16 -34	-6 -17	0 -8	0 -11	0 -18	0 -27	±5.5	±9	+12 +1	+18 +7	+23 +12	+29 +18	+36 +18	+34 +23	+39 +28
18	24	-110 -162	-65 -98	-40 -61	-40 -73	-20 -41	-7 -20	0 -9	0 -13	0 -21	0 -33	±6.5	±10	+15 +2	+21 +8	+28 +15	+35 +22	+43 +22	+41 +28	+48 +35
24	30																			
30	40	-120 -182	-80 -119	-50 -75	-50 -89	-25 -50	-9 -25	0 -11	0 -16	0 -25	0 -39	±8	±12	+18 +2	+25 +9	+33 +17	+42 +26	+51 +26	+50 +34	+59 +43
40	50	-130 -192																		
50	65	-140 -214	-100 -146	-60 -90	-60 -106	-30 -60	-10 -29	0 -13	0 -19	0 -30	0 -46	±9.5	±15	+21 +2	+30 +11	+39 +20	+51 +32	+62 +32	+60 +41	+72 +53
65	80	-150 -224																	+62 +43	+78 +59
80	100	-170 -257	-120 -174	-72 -107	-72 -126	-36 -71	-12 -34	0 -15	0 -22	0 -35	0 -54	±11	±17	+25 +3	+35 +13	+45 +23	+59 +37	+72 +37	+73 +51	+93 +71
100	120	-180 -267																	+76 +54	+101 +79
120	140	-200 -300																	+88 +63	+117 +92
140	160	-210 -310	-145 -208	-85 -125	-85 -148	-43 -83	-14 -39	0 -18	0 -25	0 -40	0 -63	±12.5	±20	+28 +3	+40 +15	+52 +27	+68 +43	+83 +43	+90 +65	+125 +100
160	180	-230 -330																	+93 +68	+133 +108
180	200	-240 -355																	+106 +77	+151 +122
200	225	-260 -375	-170 -242	-100 -146	-100 -172	-50 -96	-15 -44	0 -20	0 -29	0 -46	0 -72	±14.5	±23	+33 +14	+46 +17	+60 +31	+79 +50	+96 +50	+109 +80	+159 +130
225	250	-280 -395																	+113 +84	+169 +140
250	280	-300 -430	-190 -271	-110 -162	-110 -191	-56 -108	-17 -49	0 -23	0 -32	0 -52	0 -81	±16	±26	+36 +14	+52 +20	+66 +34	+88 +56	+108 +56	+126 +94	+190 +158
280	315	-330 -460																	+130 +98	+202 +170
315	355	-360 -500	-210 -299	-125 -182	-125 -214	-62 -119	-18 -54	0 -25	0 -36	0 -57	0 -89	±18	±28	+40 +4	+57 +21	+73 +37	+98 +62	+119 +62	+114 +108	+226 +190
355	400	-400 -540																	+150 +114	+244 +208
400	450	-440 -595	-230 -327	-135 -198	-135 -232	-68 -131	-20 -60	0 -27	0 -40	0 -63	0 -97	±20	±31	+45 +5	+63 +23	+80 +40	+108 +68	+131 +68	+166 +126	+272 +232
450	500	-480 -635																	+172 +132	+292 +252



**4 座孔公差表(250)**  
**Housing Tolerance Table (250)**

>	≤	B10	C9	D8	E7	E8	F7	G7	H6	H7	H8	JS7	K7	M7	N7	P7	R7	S7	T7
-	3	+180 +140	+85 +60	+34 +20	+24 +14	+28 +14	+16 +6	+12 +2	+6 0	+10 0	+14 0	±5	0 -10	-2 -12	-4 -14	-6 -16	-10 -20	-14 -24	-
3	6	+188 +140	+100 +70	+48 +30	+32 +20	+38 +20	+22 +10	+16 +4	+8 0	+12 0	+18 0	±6	+3 -9	0 -12	-4 -16	-8 -20	-11 -23	-15 -27	-
6	10	+208 +150	+116 +80	+62 +40	+40 +25	+47 +25	+28 +13	+20 +5	+9 0	+15 0	+22 0	±7	+5 -10	0 -15	-4 -19	-9 -24	-13 -28	-17 -32	-
10	14	+200 +150	+138 +95	+77 +50	+50 +32	+59 +32	+34 +16	+24 +6	+11 0	+18 0	+27 0	±9	+6 -12	0 -18	-5 -23	-11 -29	-16 -34	-21 -39	-
14	18																		
18	24	+244 +160	+162 +110	+98 +65	+61 +40	+73 +40	+41 +20	+28 +7	+13 0	+21 0	+33 0	±10	+6 -15	0 -21	-7 -28	-14 -35	-20 -41	-27 -48	-
24	30																		-33 -54
30	40	+270 +170	+182 +120	+119 +80	+75 +50	+89 +50	+50 +25	+34 +9	+16 0	+25 0	+39 0	±12	+7 -18	0 -25	-8 -33	-17 -42	-25 -50	-34 -59	-39 -64
40	50	+280 +180	+192 +130																-45 -70
50	65	+310 +190	+214 +140	+146 +100	+90 +60	+106 +60	+60 +30	+40 +10	+19 0	+30 0	+46 0	±15	+9 -21	0 -30	-9 -39	-21 -51	-30 -52	-42 -60	-55 -72
65	80	+320 +200	+224 +150																-32 -62
80	100	+360 +220	+257 +170	+174 +120	+107 +72	+125 +72	+71 +36	+47 +12	+22 0	+35 0	+54 0	±17	+10 -25	0 -35	-10 -45	-24 -59	-38 -73	-58 -93	-78 -113
100	120	+380 +240	+267 +180																-41 -76
120	140	+420 +260	+300 +200																-48 -88
140	160	+440 +280	+310 +210	+208 +145	+125 +85	+148 +85	+83 +43	+54 +14	+25 0	+40 0	+63 0	±20	+12 -28	0 -40	-12 -52	-28 -68	-50 -90	-85 -125	-119 -159
160	180	+470 +310	+330 +230																-53 -93
180	200	+525 +340	+355 +240																-60 -106
200	225	+565 +380	+375 +260	+242 +170	+146 +100	+172 +100	+96 +50	+61 +15	+29 0	+46 0	+72 0	±23	+13 -33	0 -46	-14 -57	-33 -79	-63 -109	-113 -159	-163 -209
225	250	+605 +420	+395 +280																-67 -113
250	280	+690 +480	+430 +300	+271 +190	+162 +110	+191 +110	+108 +56	+69 +17	+32 0	+52 0	+81 0	±26	+16 -36	0 -52	-14 -66	-36 -88	-74 -78	-138 -150	-198 -220
280	315	+750 +540	+460 +330																-126 -130
315	355	+830 +600	+500 +360	+299 +210	+182 +125	+214 +125	+119 +62	+75 +18	+36 0	+57 0	+89 0	±28	+17 -40	0 -57	-16 -73	-41 -98	-87 -93	-169 -187	-247 -273
355	400	+910 +680	+540 +400																-144 -150
400	450	+1010 +760	+595 +440	+327 +230	+198 +135	+232 +135	+131 +68	+83 +20	+40 0	+63 0	+97 0	±31	+18 -45	0 -63	-17 -80	-45 -108	-103 -109	-209 -229	-307 -337
450	500	+1090 +840	+635 +480																-172 -172



## 5 卷制轴套检测 Wrapped Bushing Measurement

在自由状态下，卷制类轴套有一定的开口缝，不能精确的测量外径和内径。所以，卷制类轴承的内外径应有专业的测量工具和设备进行。

In free state, wrapped bushing will not be closed, which is impossible to accurately measure External diameter & Internal diameter. When wrapped bushing Measured, special gauges and test equipments is necessary.

### 外径检测

#### Test external diameter

#### ISO 3547-2 TEST B

轴套用力压入环规通规（最大加力250N）通过

Press the bushing into Go ring gange. And push bushing through by hand (Max. force 250N)

用上述同样方法和相同力压入环规止端不通过

Use the above same way & press, bushing can not go into No Go ring gauge.



### 内径检测

#### Test Internal diameter

#### ISO 3547-2 TEST C

当轴套压入环规，塞规通端通过用较小力，塞规止端通过用较大力不超过250N

Press the bushing into ring gauge. The Go plug gauge could be inserted by a light pressure. The No Go plug gauge could not be inserted by heavy pressure (Max. force 250N)  
注意：轴套压入环规，轴套外径可能会永久减小

Note: When the bushing is pressed into ring gauge, external diameter could be permanent reduction.

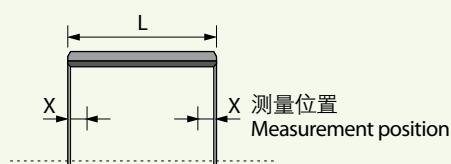


### 壁厚测量

#### Wall thickness Meaurment

轴套壁厚测量: 按轴套高度在轴套轴向上测量一点，两点或三点。

The wall thickness of bushing is measured by professional gauge at one, two, or three positions according to bushing length.



L [mm]	X [mm]	Measurement position
L≤15	L/2	1
15<L≤50	4	2
50<L≤90	6 and L/2	3
L>90	8 and L/2	3



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**A-4910 RIED  
Bahnhofstraße 67a  
T: +43 / (0)7752 / 879 31-0  
[info@beham.com](mailto:info@beham.com)**