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COC
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COC

SRB

Spherical Roller
Bearing Units

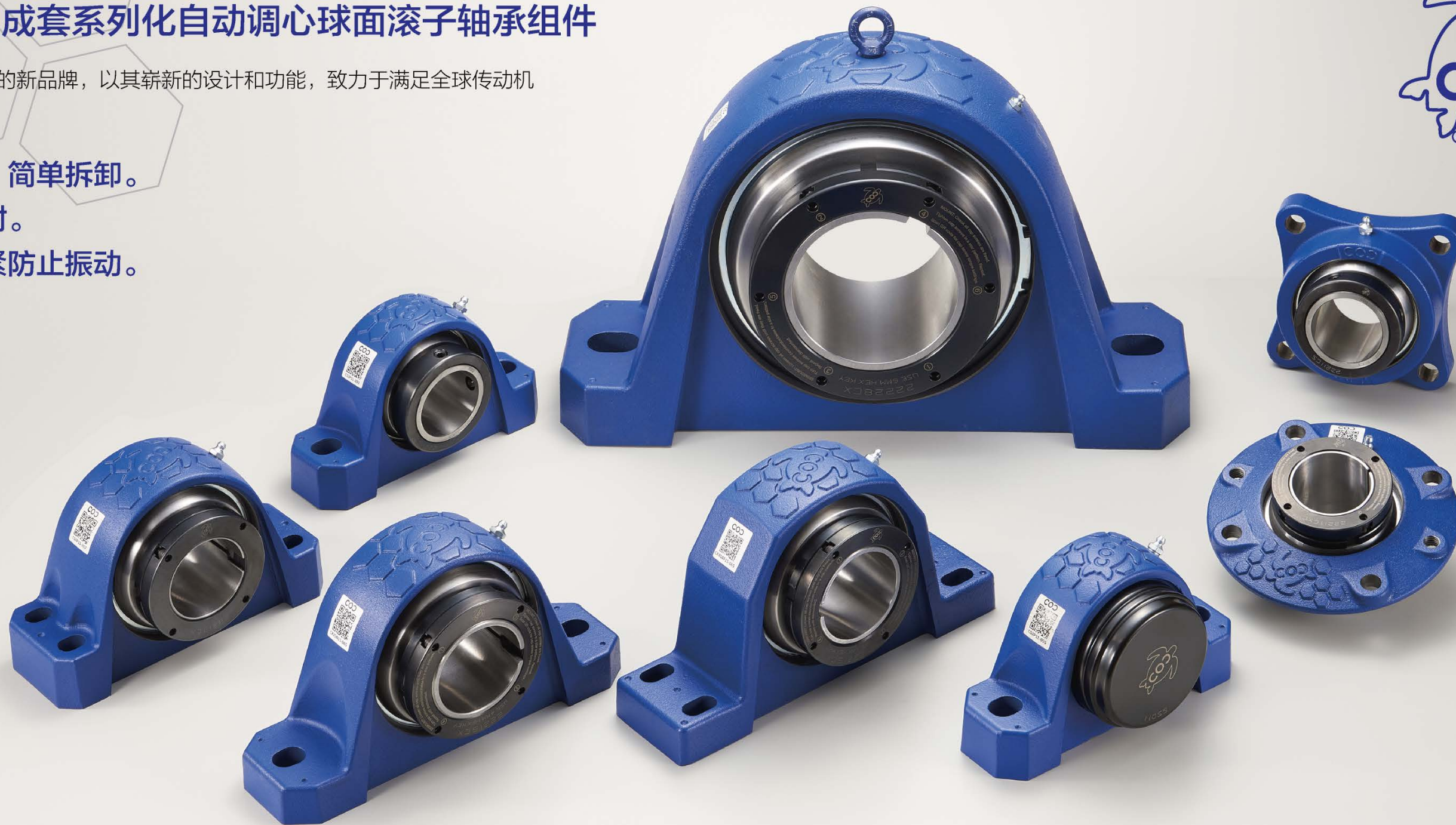
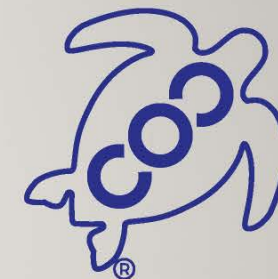




成套系列化自动调心球面滚子轴承组件

2019年在日本诞生的新品牌，以其崭新的设计和功能，致力于满足全球传动机械业界的需求。

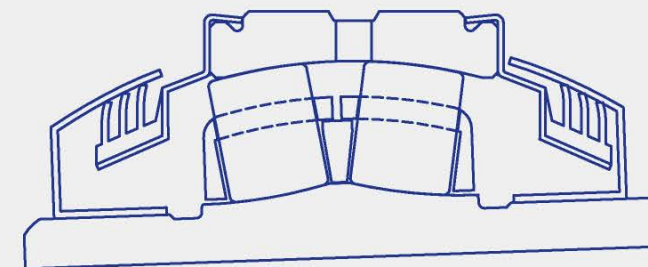
- 简单安装。简单拆卸。
- 长寿命密封。
- 360度锁紧防止振动。



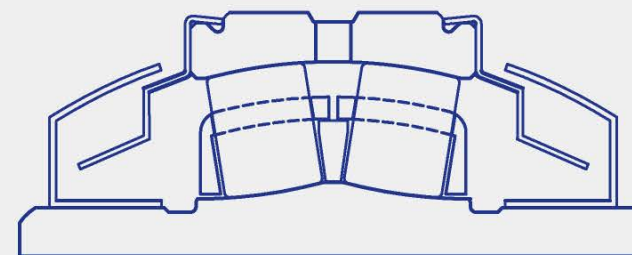
密封唇在任何角度下保持接触均匀。

接触密封防护

独创的设计保证在 $\pm 2^\circ$ 调心范围内使密封唇与防尘盖切实且均匀接触。不锈钢防尘盖更能屏蔽污物，保护轴承。



无橡胶唇迷宫式密封圈适合高速和高温使用条件。能有效地降低高速运转时的温升。

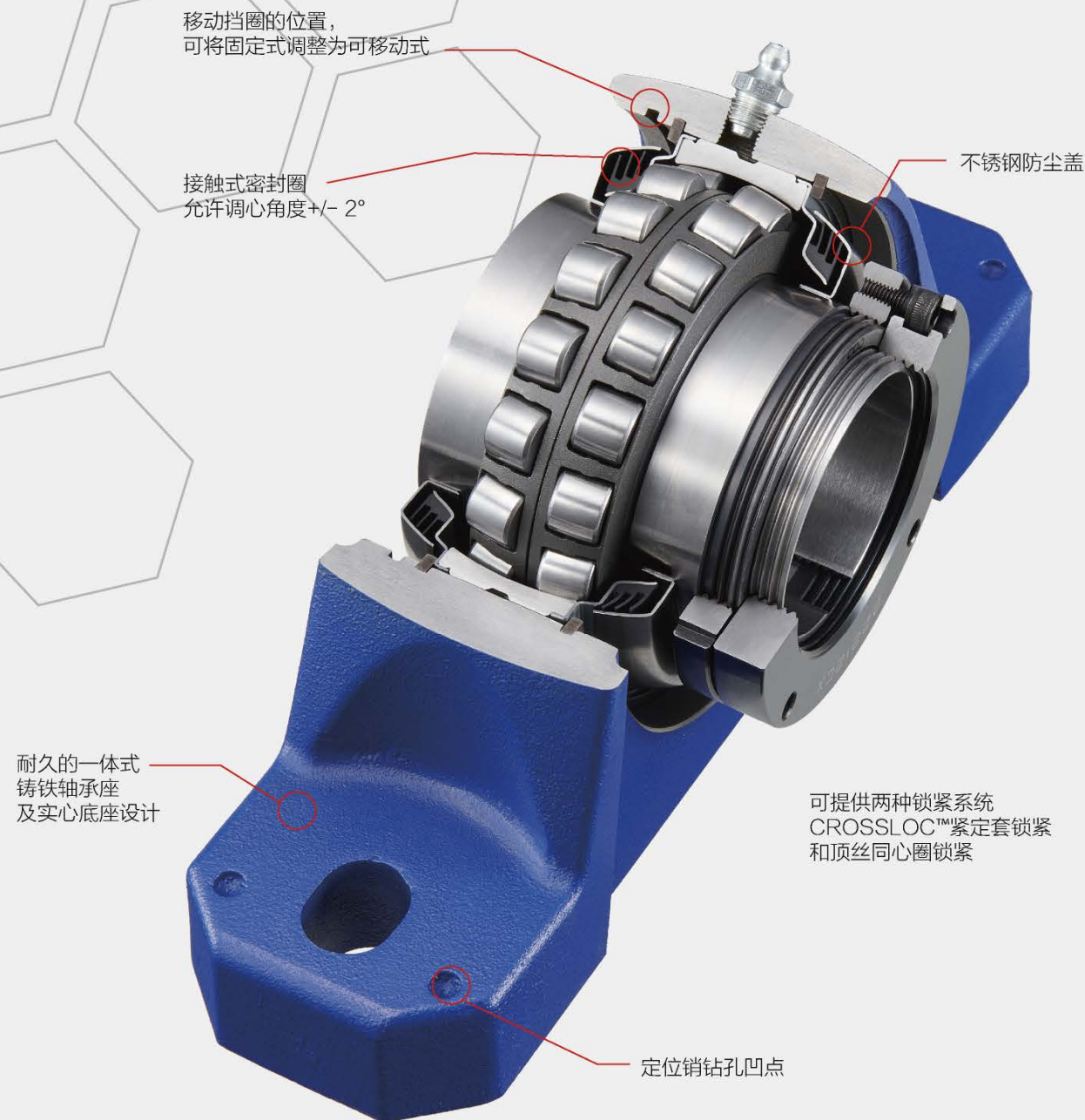


固定式样与可移动式样

如果使用时的高温导致轴在轴向有伸缩移动，可一端用固定式轴承组件。而把另一端组件的弹簧挡圈移到外侧卡簧槽内，就能很容易地把固定式样轴承组件变为可移动式样轴承组件。

润滑

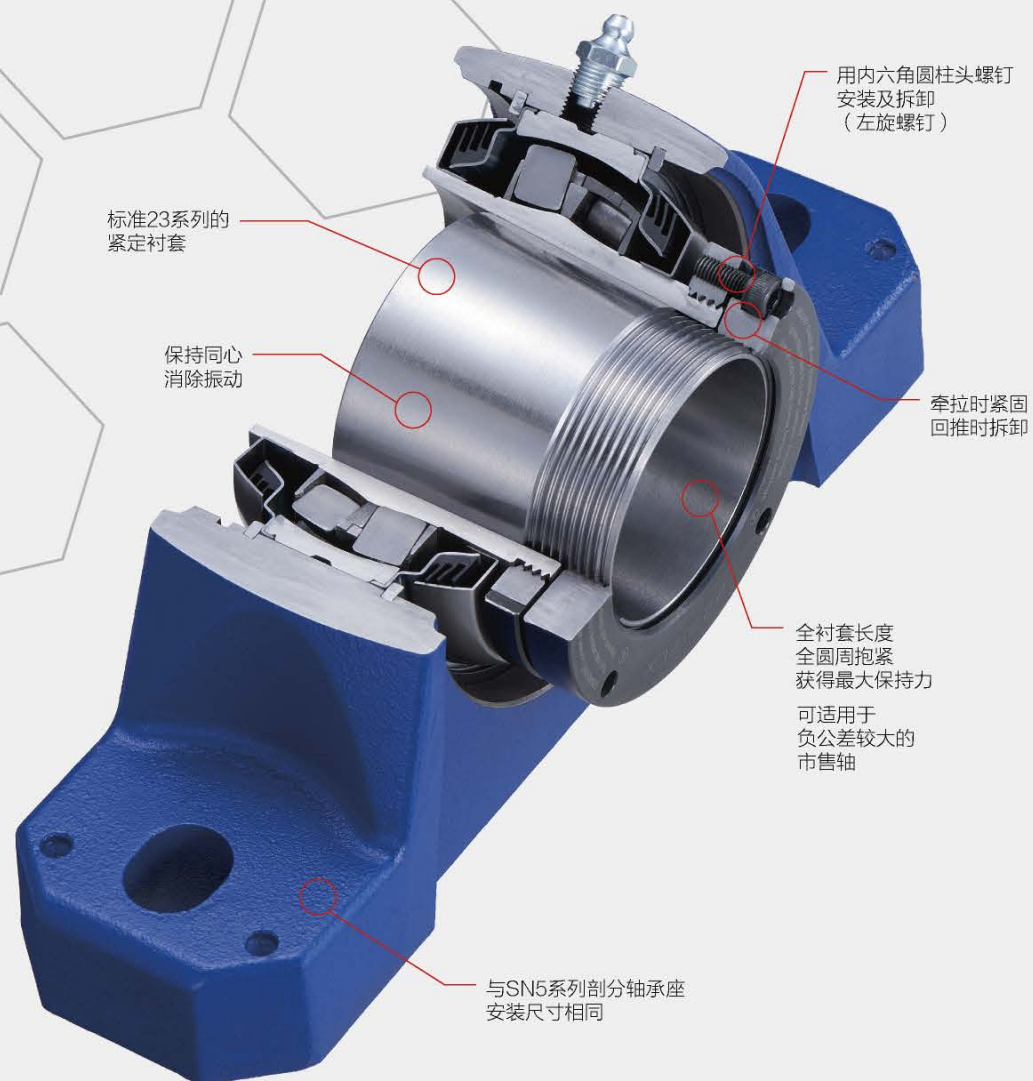
我们的复合锂基润滑脂具有非常高的EP (抗极压特性) 和AW (抗磨性) 指标，以及优良的防水性，抗氧化性能和剪切稳定性。此润滑脂使用温度范围是 -20°C (-4°F) 到 $+160^\circ\text{C}$ ($+320^\circ\text{F}$)，短时间耐温 $+200^\circ\text{C}$ ($+392^\circ\text{F}$)。





CROSSLOC™

与SN和SAF组件有互换性的锁紧系统



CROSSLOC™锁紧系统与SN或SAF轴承座组成的轴承组件可替代标准剖分式SN或SAF系列轴承座。

已获取专利的CROSSLOC™锁紧系统，仅在一端即可安装拆卸轴承。交叉拧紧4处的圆柱头螺钉就可以安装，反向松开就能拆卸。只需要一个六角扳手。对于直径负公差的市售轴，也可以保持全圆周面接触而紧固安装。

**无需使用塞尺、标记笔和锤子。
只需要一个六角扳手即可。**



CX2SN

CX2SAF

CX4SAF

在我们的锁紧系统中使用标准的市售套筒，所以100%地与SN或SAF产品有兼容互换性。轴承在同等轴径的前提下，因为中间加了套筒，轴承要比CS顶丝锁紧轴承大一个型号。我们的SN和SAF产品在工厂已装好密封圈并充填了润滑脂，是组件完成品。用户可以直接与轴组装。





CROSSLOC™ CXC

互换于圆柱孔系列产品

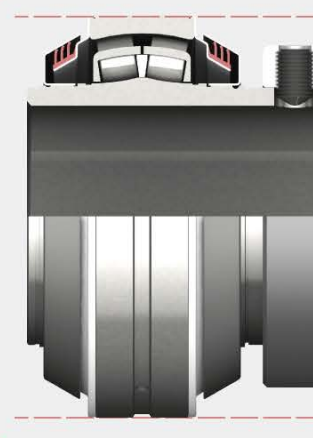


22200K
+ 紧定套

CX
CROSSLOC™

CS
顶丝锁紧

CXC
CROSSLOC™



标准
SN & SAF

仅适于
SN & SAF

适于其他所有轴承座

22200K 和CROSSLOC™CX轴承在同等轴径的前提下，因为中间加了套筒，轴承外径要比CS顶丝锁紧轴承大一个型号。

CROSSLOC™ CXC轴承与顶丝锁紧圆柱孔轴承的外径是相同的。它的外径比与SN和SAF轴承座匹配的CROSSLOC™ CX轴承小一个型号。所以我们能推出CROSSLOC™ CXC薄壁小锥度紧定套产品来互换和兼容CS顶丝锁紧轴承。



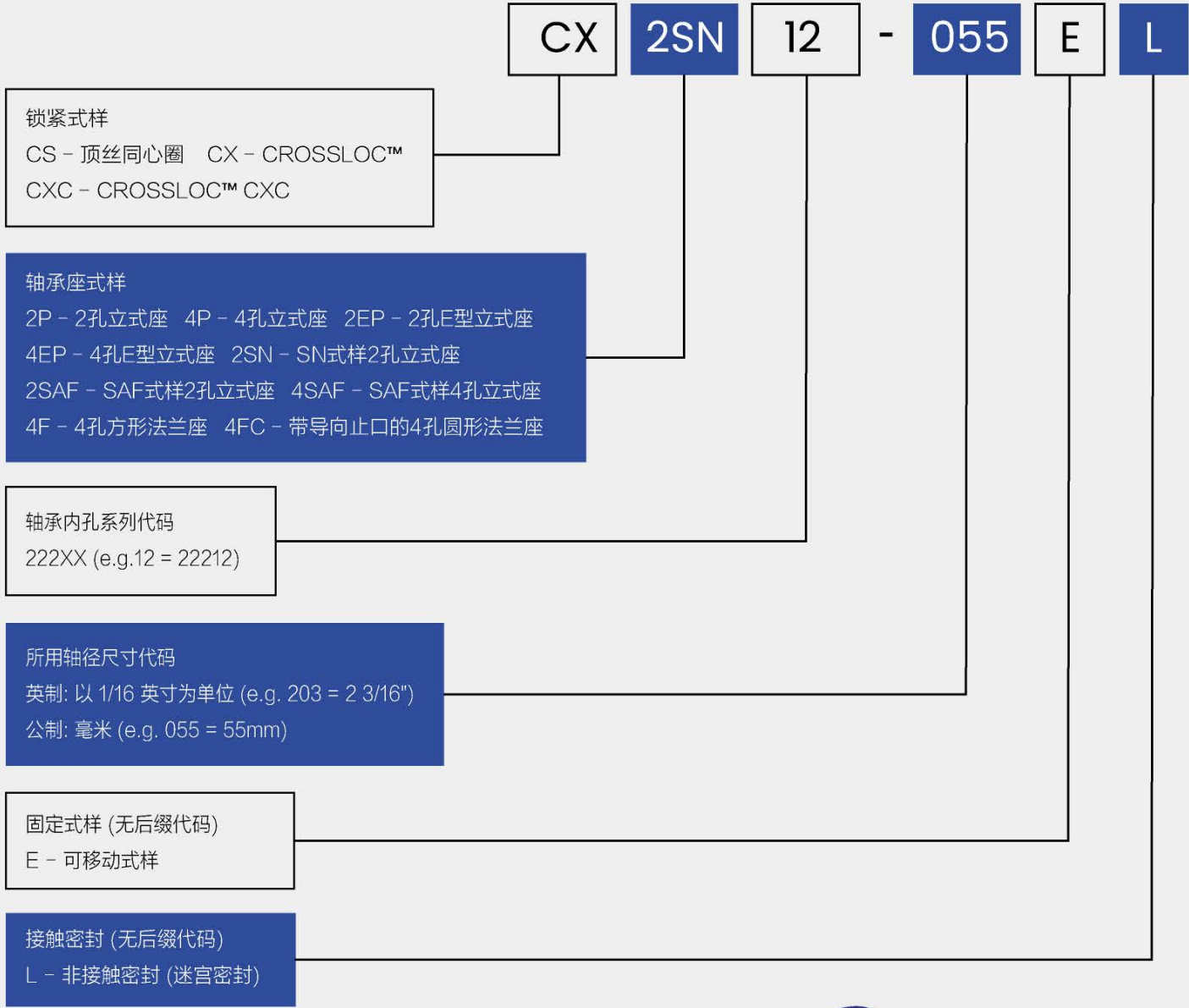
扫描二维码链接 以下网站信息

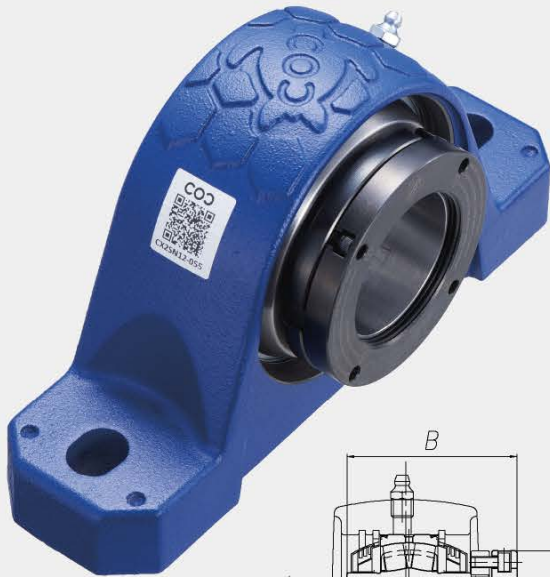
- 所扫描产品型号的尺寸表
- 安装视频
- 保养维护信息

二维码内包含网站链接信息和产品序列号



型号命名系统





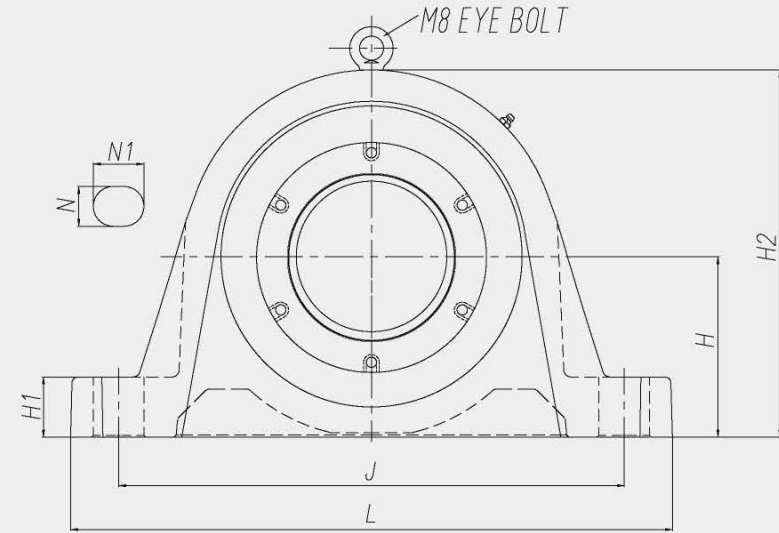
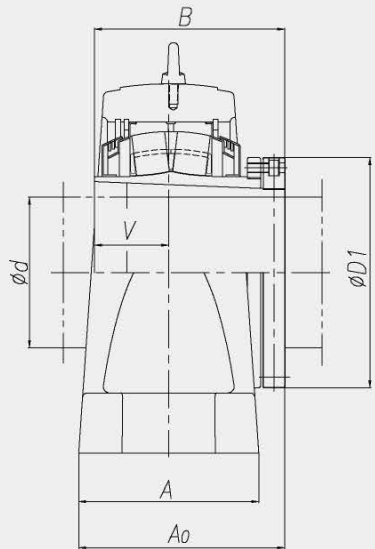
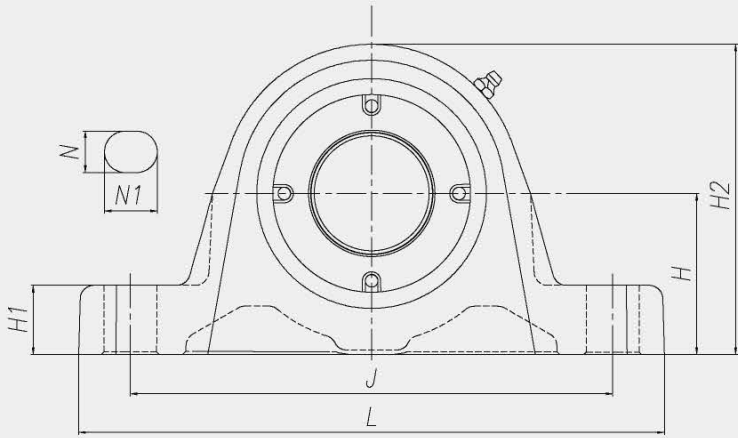
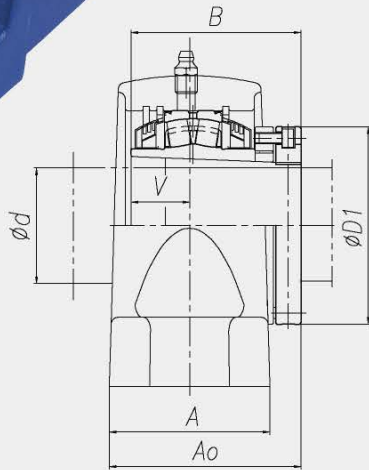
CX2SN

CROSSLOC™

CROSSLOC™锁紧系统的球面滚子轴承与2螺栓孔SN尺寸立式座的组件。

全衬套长度全圆周抱紧，获得最大保持力

与剖分式SN尺寸产品可互换。



CX2SN28-125 - CX2SN32-140

轴承组件 型号	轴承 型号	轴径 D	紧定 衬套	H	L	A	J	N	N1	H1	H2	D1	V	A0	B	安装螺 栓尺寸	重量
				in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs kg
CX2SN10-112	22210	1 3/4 in.	BE2310X	2-23/64	8-1/16	2-23/64	6-11/16	19/32	25/32	63/64	4-17/32	3-3/32	29/32	3-3/64	2-49/64	1/2	9.04
CX2SN10-045		45 mm	B2310X	60	205	60	170	15	20	25	115	78	23.21	77.29	70.5	M12	4.10
CX2SN11-115	22211	1-15/16 in.	AA2311X	2-3/4 70	10-1/32 255	2-3/4 70	8-1/4 210	23/32 18	29/32 23	1-3/16 30	5-5/16 135	3-3/8 86	1 25.45	3-9/32 83.45	2-29/32 73.90	5/8 M16	14.2 6.44
CX2SN11-050		50 mm	A2311X														
CX2SN11-200		2 in.	AE2311X														
CX2SN12-055	22212	55 mm	A2312X	2-3/4 70	10-1/32 255	2-3/4 70	8-1/4 210	23/32 18	29/32 23	1-3/16 30	5-5/16 135	3-17/32 90	1-9/64 29.00	3-27/64 87	3-3/16 81.00	5/8 M16	13.7 6.23
CX2SN13-203	22213	2-3/16 in.	AA2313X	3-5/32 80	10-27/32 275	3-5/32 80	9-1/16 230	23/32 18	29/32 23	1-3/16 30	6-3/32 155	3-25/32 96	1-3/16 30.35	3-3/4 95.35	3-3/8 85.70	5/8 M16	18.7 8.46
CX2SN13-060		60 mm	A2313X														
CX2SN15-207	22215	2-7/16 in.	AA2315X	3-5/32 80	10-27/32 275	3-5/32 80	9-1/16 230	23/32 18	29/32 23	1-3/16 30	6-3/32 155	4-1/8 105	1-1/4 31.56	3-51/64 96.56	3-15/32 88.12	5/8 M16	18.4 8.34
CX2SN15-065		65 mm	A2315X														
CX2SN16-211	22216	2-11/16 in.	AA2316X	3-3/4 95	12-19/32 320	3-17/32 90	10-1/4 260	7/8 22	1-1/16 27	1-1/4 32	7-9/32 185	4-17/32 115	1-9/32 32.50	4-5/32 105.50	3-21/32 93.00	3/4 M20	29.9 13.58
CX2SN16-070		70 mm	A2316X														
CX2SN17-215	22217	2-15/16 in.	AA2317X	3-3/4 95	12-19/32 320	3-17/32 90	10-1/4 260	7/8 22	1-1/16 27	1-1/4 32	7-9/32 185	4-23/32 120	1-25/64 35.50	4-17/64 108.50	3-57/64 99.00	3/4 M20	29.4 13.32
CX2SN17-075		75 mm	A2317X														
CX2SN17-300		3 in.	AE2317X														
CX2SN18-080	22218	80 mm	A2318X	3-15/16 100	13-19/32 345	3-15/16 100	11-7/16 290	7/8 22	1-1/16 27	1-3/8 35	7-11/16 195	5 127	1-15/32 37.51	4-35/64 115.51	4-1/16 103.02	3/4 M20	35.8 16.22
CX2SN19-085	22219	85 mm	A2319X	4-13/32 112	13-19/32 345	3-15/16 100	11-7/16 290	7/8 22	1-1/16 27	1-3/8 35	8-1/4 210	5-3/16 132	1-39/64 40.80	4-43/64 118.8	4-5/16 109.60	3/4 M20	39.7 18.00
CX2SN20-307	22220	3-7/16 in.	AA2320X	4-13/32 112	14-31/32 380	4-11/32 110	12-19/32 320	1-1/32 26	1-1/4 32	1-9/16 40	8-19/32 218	5-21/32 144	1-21/32 42.08	5-5/32 131.08	4-21/32 118.16	7/8 M24	49.6 22.48
CX2SN20-090		90 mm	A2320X														
CX2SN22-100	22222	100 mm	A2322X	4-15/16 125	16-5/32 410	4-23/32 120	13-25/32 350	1-1/32 26	1-1/4 32	1-25/32 45	9-15/32 240	6-1/8 156	1-31/32 50.00	5-5/8 143.00	5-15/64 133.00	7/8 M24	64.1 29.07
CX2SN22-315		3-15/16 in.	A2322X														
CX2SN24-110	22224	110 mm	A2324X	5-1/2 140	16-5/32 410	4-23/32 120	13-25/32 350	1-1/32 26	1-1/4 32	1-25/32 45	10-21/32 270	6-11/16 170	2-7/64 53.60	5-27/32 148.60	5-19/32 142.20	7/8 M24	83.0 37.64
CX2SN26-407	22226	4-7/16 in.	AA2326X	5-29/32 150	17-17/32 445	5-1/8 130	14-31/32 380	1-3/32 28	1-13/32 36	1-31/32 50	11-7/16 290	7-7/16 189	2-19/64 58.20	6-15/64 158.20	5-31/32 151.40	7/8 M24	105.6 47.89
CX2SN26-115		115 mm	A2326X														
CX2SN28-125	22228	125 mm	A2328X	5-29/32 150	19-11/16 500	5-29/32 150	16-17/32 420	1-5/16 33	1-21/32 42	1-31/32 50	12 305	7-1/2 191	2-27/64 61.50	6-3/4 171.50	6-7/32 158.00	1-1/4 M30	129.0 58.49
CX2SN28-415		4-15/16 in.	AA2328X														
CX2SN30-135	22230	135 mm	A2330X	6-5/16 160	20-7/8 530	6-5/16 160	17-23/32 450	1-5/16 33	1-21/32 42	2-3/8 60	12-25/32 325	8-1/8 206	2-31/64 63.00	7-11/64 182.00	6-1/2 165.00	1-1/4 M30	158.0 71.68
CX2SN32-507	22232	5-7/16 in.	AA2332X	6-11/16 170	21-21/32 550	6-5/16 160	18-1/2 470	1-5/16 33	1-21/32 42	2-3/8 60	13-19/32 345	8-21/32 220	2-21/32 67.50	7-3/8 187.50	6-57/64 175.00	1-1/4 M30	189.0 85.76
CX2SN32-508		5-1/2 in.	AE2332X														
CX2SN32-140		140 mm	A2332X														



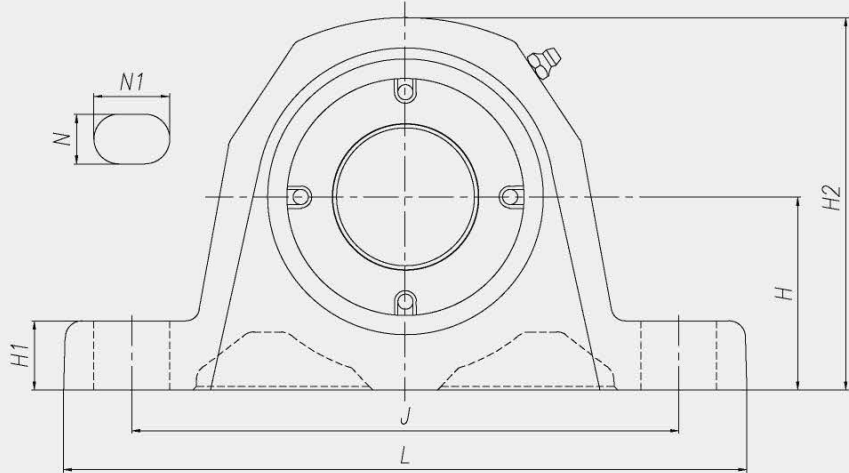
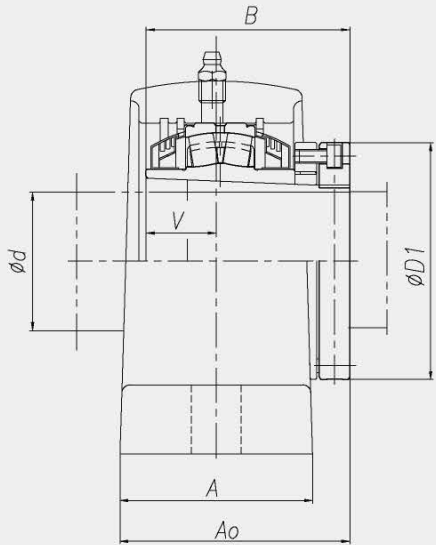
CX2SAF

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与SAF尺寸产品可互换。



轴承组件 型号	轴承 型号	轴径 D	紧定 衬套	H	L	A	J	N	N1	H1	H2	D1	V	A0	B	安装螺 栓尺寸	重量
				in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs kg
CX2SAF10-111	22210	1-11/16 in.	BA2310X	2-1/2 63.5	8-9/32 210	2-23/64 60	6-23/32 171	19/32 15	7/8 22	1-1/8 28	4-21/32 118	3-3/32 78	29/32 23.21	3-1/32 77.05	2-49/64 70.5	1/2 M12	9.9 4.5
CX2SAF10-112		1-3/4 in.	BE2310X														
CX2SAF10-045		45 mm	B2310X														
CX2SAF11-115	22211	1-15/16 in.	AA2311X	2-3/4 69.85	9-3/4 247	2-3/4 70	7-13/16 198.5	23/32 18	1-3/32 27.7	1 25	5-5/16 135	3-3/8 86	1 25.45	3-9/32 83.45	2-29/32 73.90	5/8 M16	13.2 5.99
CX2SAF11-050		50 mm	A2311X														
CX2SAF11-200		2 in.	AE2311X														
CX2SAF13-203	22213	2-3/16 in.	AA2313X	3 76.2	11-1/32 280	3-5/32 80	8-25/32 223.5	23/32 18	1-3/16 30.5	1-1/32 26	6-1/16 154	3-25/32 96	1-3/16 30.35	3-3/4 95.35	3-3/8 85.70	5/8 M16	15.6 7.08
CX2SAF13-060		60 mm	A2313X														
CX2SAF15-207	22215	2-7/16 in.	AA2315X	3-1/4 82.55	11-3/16 284	3-5/32 80	9-1/8 232	23/32 18	1-5/32 29	1-3/16 30	6-5/16 160	4-1/8 105	1-1/4 31.56	3-51/64 96.56	3-15/32 88.12	5/8 M16	20.7 9.43
CX2SAF15-065		65 mm	A2315X														
CX2SAF16-211	22216	2-11/16 in.	AA2316X	3-1/2 88.9	13 330	3-17/32 90	10-5/16 262	7/8 22	1-15/32 37	1-3/32 27.6	7-1/16 179	4-17/32 115	1-9/32 32.50	4-5/32 105.50	3-21/32 93.00	3/4 M20	29.9 13.6
CX2SAF16-070		70 mm	A2316X														
CX2SAF17-215	22217	2-15/16 in.	AA2317X	3-3/4 95.25	13 330	3-17/32 90	10-5/16 262	7/8 22	1-15/32 37	1-11/32 34	7-9/32 185	4-23/32 120	1-25/64 35.50	4-17/64 108.50	3-57/64 99.00	3/4 M20	31.3 14.25
CX2SAF17-075		75 mm	A2317X														
CX2SAF20-307	22220	3-7/16 in.	AA2320X	4-1/2 114.3	15-9/32 388	4-11/32 110	12-3/8 314	1-1/32 26	1-11/16 43	1-21/32 42	8-21/32 220	5-21/32 144	1-21/32 42.08	5-5/32 131.08	4-21/32 118.16	7/8 M24	52.6 23.89
CX2SAF20-090		90 mm	A2320X														



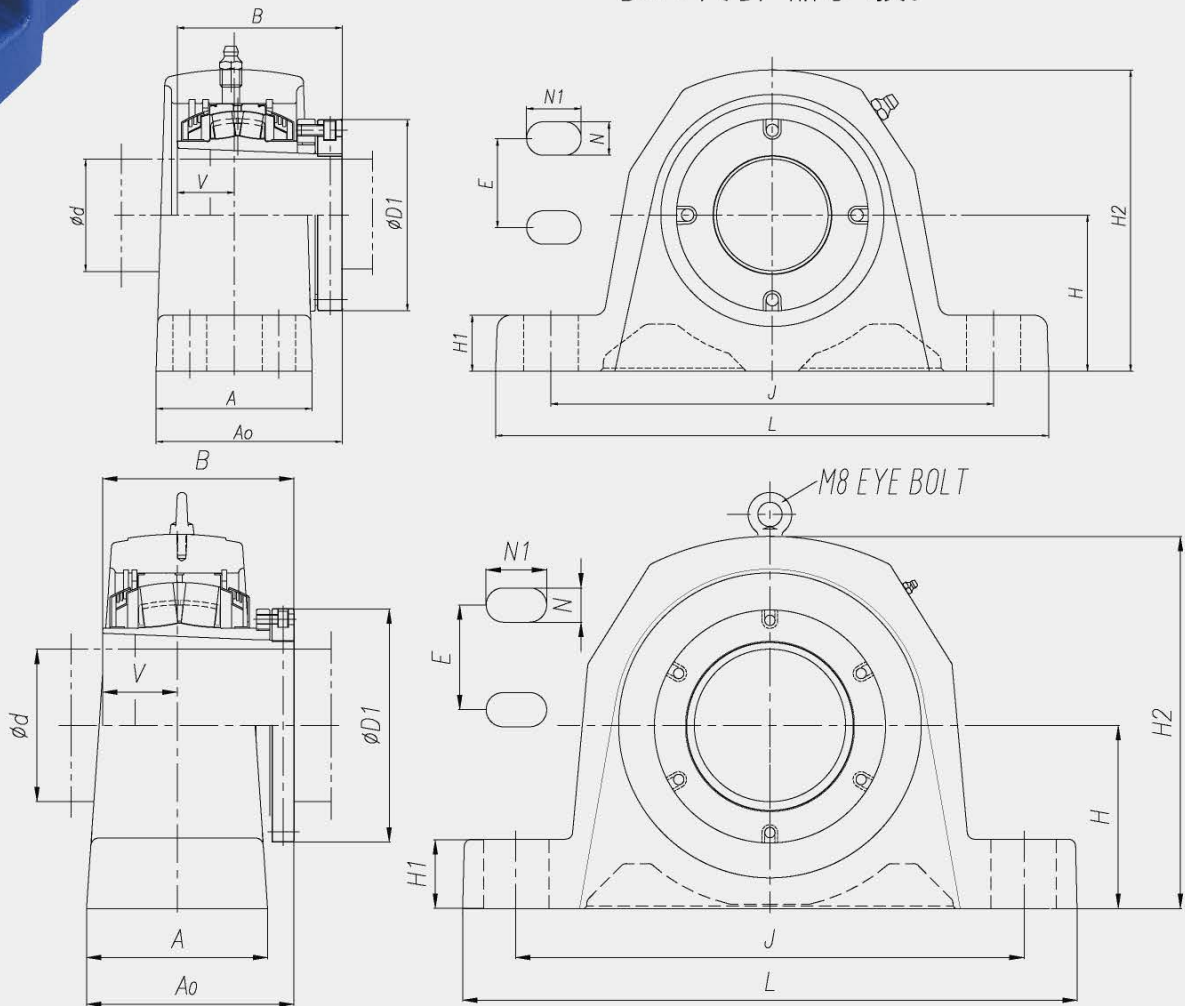
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CX4SAF28-125 - CX4SAF32-140

轴承组件 型号	轴承 型号	轴径 D	紧定 衬套	H	L	A	J	N	N1	E	H1	H2	D1	V	A0	B	安装螺 栓尺寸	重量
				in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs kg
CX4SAF15-207	22215	2-7/16 in.	AA2315X	3-1/4 82.55	11-3/16 284	3-5/32 80	9-1/8 232	19/32 15	1-1/32 26	1-7/8 47.8	1-3/16 30	6-5/16 160	4-1/8 105	1-1/4 31.56	3-51/64 96.56	3-15/32 88.12	1/2 M12	20.5 9.33
CX4SAF15-065		65 mm	A2315X															
CX4SAF16-211	22216	2-11/16 in.	AA2316X	3-1/2 88.90	13 330	3-17/32 90	10-5/16 262	23/32 18	1-11/32 34	2-1/8 54	1-3/32 27.6	7-1/16 179	4-17/32 115	1-9/32 32.50	4-5/32 105.50	3-21/32 93.00	5/8 M16	29.3 13.3
CX4SAF16-070		70 mm	A2316X															
CX4SAF17-215	22217	2-15/16 in.	AA2317X	3-3/4 95.25	13 330	3-17/32 90	10-5/16 262	23/32 18	1-11/16 34	2-1/8 54	1-11/32 34	7-9/32 185	4-23/32 120	1-25/64 35.50	4-17/64 108.50	3-57/64 99.00	5/8 M16	30.7 13.95
CX4SAF17-075		75 mm	A2317X															
CX4SAF20-307	22220	3-7/16 in.	AA2320X	4-1/2 114.30	15-9/32 388	4-11/32 110	12-3/8 314	7/8 22	1-9/16 40	2-3/8 60.4	1-21/32 42	8-21/32 220	5-21/32 144	1-21/32 42.08	5-5/32 131.08	4-21/32 118.16	3/4 M20	51.5 23.39
CX4SAF20-090		90 mm	A2320X															
CX4SAF22-100	22222	100 mm	A2322X	4-15/16 125.41	16-1/2 419	4-23/32 120	13-9/16 344	7/8 22	1-25/32 45	2-3/4 69.9	1-31/32 50	9-15/32 240	6-1/8 156	1-31/32 50.00	5-5/8 143.00	5-15/64 133.00	3/4 M20	68.35 31.07
CX4SAF22-315		3-15/16 in.	A2322X															
CX4SAF26-407	22226	4-7/16 in.	AA2326X	6 152.4	18-3/8 467	5-1/8 130	15-9/32 388.5	15/16 24	1-5/8 41	3-1/4 82.6	2-3/8 60	11-1/2 292	7-7/16 189	2-19/64 58.20	6-15/64 158.20	5-31/32 151.40	7/8 M22	114.62 52.10
CX4SAF26-115		115 mm	A2326X															
CX4SAF28-125	22228	125 mm	A2328X	6 152.4	20 508	5-29/32 150	16-1/2 419	1-3/32 28	1-31/32 50	3-3/8 85.8	2-3/8 60	12-3/32 307	7-1/2 191	2-27/64 61.50	6-3/4 171.50	6-7/32 158.00	1 M24	132.46 60.21
CX4SAF28-415		4-15/16 in.	AA2328X															
CX4SAF32-507	22232	5-7/16 in.	AA2332X	6-11/16 169.86	21-7/8 556	6-5/16 160	18-5/16 465	1-3/32 28	1-15/16 49	3-3/4 95.3	2-19/32 66	13-19/32 345	8-21/32 220	2-21/32 67.50	7-3/8 187.50	6-57/64 175.00	1 M24	193.82 88.10
CX4SAF32-508		5-1/2 in.	AE2332X															
CX4SAF32-140		140 mm	A2332X															

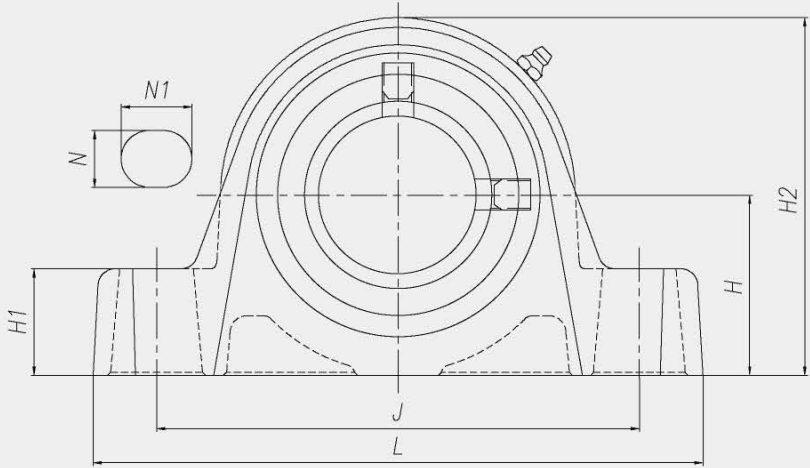
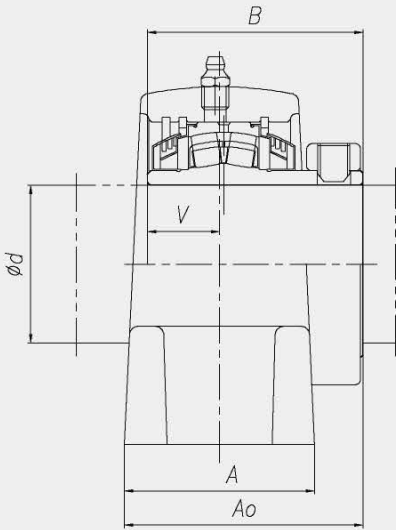




CS2P

顶丝同心圈锁紧的球面滚子轴承与2螺栓孔立式座的组件。

同心圈及相隔90° 经过防松处理的顶丝进行锁紧，可保持最大锁紧力。



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CS2P08-107	22208	1-7/16 in.	1-7/8 47.6	6-5/8 168	2-1/8 54	5 127	19/32 15	31/32 25	1-1/8 28	3-27/32 98	7/8 22.35	2-57/64 73.5	2-45/64 68.89	1/2 M12	5.37	2.44
CS2P08-108		1-1/2 in.													5.32	2.42
CS2P08-040		40 mm													5.39	2.45
CS2P09-111	22209	1-11/16 in.	2-1/8 54	7-1/8 181	2-1/8 54	5-1/2 140	19/32 15	31/32 25	1-1/4 32	4-9/32 109	59/64 23.37	2-29/32 73.7	2-49/64 70.1	1/2 M12	6.93	3.15
CS2P09-112		1-3/4 in.													6.82	3.1
CS2P09-045		45 mm													6.77	3.08
CS2P10-115	22210	1-15/16 in.	2-1/4 57.2	8 203	2-1/8 54	6-1/4 159	25/32 20	31/32 25	1-5/16 33	4-1/2 114	57/64 22.61	3-1/64 76.5	2-27/32 72.14	5/8 M16	8.18	3.72
CS2P10-050		50 mm													8.16	3.71
CS2P10-200		2 in.													8.07	3.67
CS2P11-055	22211	55 mm	2-1/2 63.5	8-1/2 216	2-5/8 67	6-3/4 170	25/32 20	31/32 25	1-1/2 38	4-31/32 126	1 25.45	3-5/16 84.1	3 76	5/8 M16	11.22	5.1
CS2P11-203		2-3/16 in.													11.22	5.1
CS2P11-204		2-1/4 in.													11.04	5.02
CS2P13-060	22213	60 mm	2-3/4 69.8	8-7/8 225	2-13/16 72	7-1/8 181	25/32 20	31/32 25	1-5/8 41	5-19/32 142	1-1/8 28.7	3-27/32 97.47	3-35/64 90.17	5/8 M16	15.22	6.92
CS2P13-207		2-7/16 in.													14.98	6.81
CS2P13-208		2-1/2 in.													14.69	6.68
CS2P13-065		65 mm													14.52	6.60
CS2P15-211	22215	2-11/16 in.	3-1/4 82.6	10-5/16 262	3 76	8-1/8 206	15/16 24	1-11/32 34	1-29/32 48	6-3/8 162	1-11/64 29.72	3-31/32 101.0	3-21/32 92.71	3/4 M20	20.02	9.1
CS2P15-212		2-3/4 in.													20.32	9.24
CS2P15-070		70 mm													19.84	9.02
CS2P15-215		2-15/16 in.													19.20	8.73
CS2P15-075		75 mm													19.16	8.71
CS2P15-300		3 in.													18.92	8.6
CS2P18-080	22218	80 mm	3-3/4 95.2	12-5/8 321	3-3/8 86	10 254	1-1/16 27	1-21/32 42	2-1/4 57	7-15/32 190	1-13/32 35.81	4-13/32 111.8	4-1/8 104.74	7/8 M22	33.72	15.33
CS2P18-085		85 mm													32.78	14.9
CS2P18-307		3-7/16 in.													32.60	14.82
CS2P18-308		3-1/2 in.													31.98	14.54
CS2P18-090		90 mm													31.57	14.35
CS2P20-100	22220	100 mm	4-1/4 108	15-1/8 384	3-3/4 95	11-3/4 298	1-5/32 29	2-5/16 59	2-7/16 62	8-11/32 212	1-19/32 40.39	4-59/64 125.0	4-41/64 117.73	1 M24	45.16	20.53
CS2P20-315		3-15/16 in.													45.16	20.53
CS2P20-400		4 in.													44.72	20.33



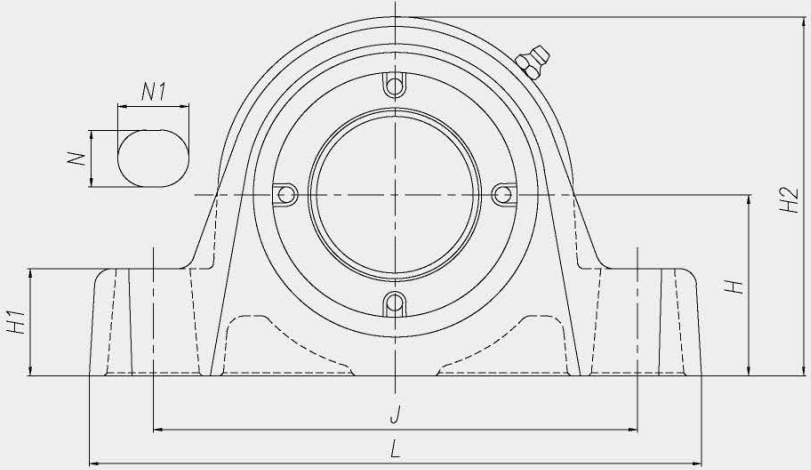
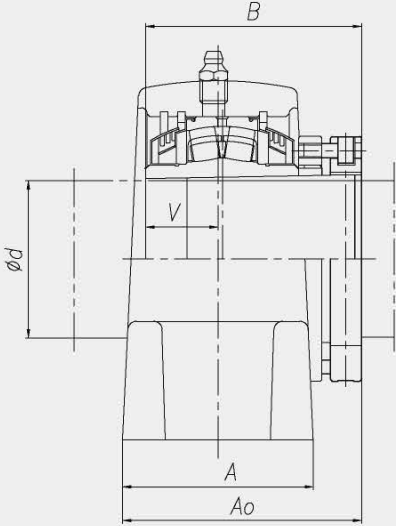


CXC2P

CROSSLOC™ CXC

CROSSLOC CXC 锁紧系统的球面滚子轴承与2螺栓孔立式座的组件。

全衬套长度全圆周抱紧，获得最大保持力



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CXC2P08-107	22208	1-7/16 in.	1-7/8	6-5/8	2-1/8	5	19/32	31/32	1-1/8	3-27/32	7/8	2-57/64	2-45/64	1/2	5.52	2.51
CXC2P08-108		1-1/2 in.	47.6	168	54	127	15	25	28	98	22.35	73.5	68.89	M12	5.48	2.49
CXC2P09-111	22209	1-11/16 in.	2-1/8	7-1/8	2-1/8	5-1/2	19/32	31/32	1-1/4	4-9/32	59/64	2-29/32	2-49/64	1/2	7.33	3.33
CXC2P10-115	22210	1-15/16 in.	2-1/4	8	2-1/8	6-1/4	25/32	31/32	1-5/16	4-1/2	57/64	3-1/64	2-27/32	5/8	8.65	3.93
CXC2P11-055	22211	55 mm	2-1/2	8-1/2	2-5/8	6-3/4	25/32	31/32	1-1/2	4-31/32	1	3-7/32	2-29/32	5/8	11.64	5.29
CXC2P11-203		2-3/16 in.	63.5	216	67	170	20	25	38	126	25.45	81.97	73.9	M16	11.48	5.22
CXC2P13-060	22213	60 mm	2-3/4	8-7/8	2-13/16	7-1/8	25/32	31/32	1-5/8	5-19/32	1-1/8	3-21/32	3-3/8	5/8	15.38	6.99
CXC2P13-207		2-7/16 in.													15.26	6.94
CXC2P13-208		2-1/2 in.													15.18	6.9
CXC2P13-065		65 mm													14.94	6.78
CXC2P15-211	22215	2-11/16 in.	3-1/4	10-5/16	3	8-1/8	15/16	1-11/32	1-29/32	6-3/8	1-11/64	3-51/64	3-15/32	3/4	20.44	9.29
CXC2P15-212		2-3/4 in.													20.33	9.24
CXC2P15-070		70 mm													20.06	9.12
CXC2P15-215		2-15/16 in.													19.21	8.73
CXC2P15-075		75 mm													19.38	8.81
CXC2P15-300		3 in.													18.81	8.55
CXC2P18-080	22218	80 mm	3-3/4	12-5/8	3-3/8	10	1-1/16	1-21/32	2-1/4	7-15/32	1-13/32	4-11/32	4-1/16	7/8	34.01	15.48
CXC2P18-085		85 mm													33.53	15.24
CXC2P18-307		3-7/16 in.													33.11	15.05
CXC2P18-308		3-1/2 in.													32.93	14.97
CXC2P18-090		90 mm													32.32	14.69
CXC2P20-100	22220	100 mm	4-1/4	15-1/8	3-3/4	11-3/4	1-5/32	2-5/16	2-7/16	8-11/32	1-19/32	4-15/16	4-21/32	1	46.45	21.07
CXC2P20-315		3-15/16 in.													45.72	20.78
CXC2P20-400		4 in.													45.72	20.78

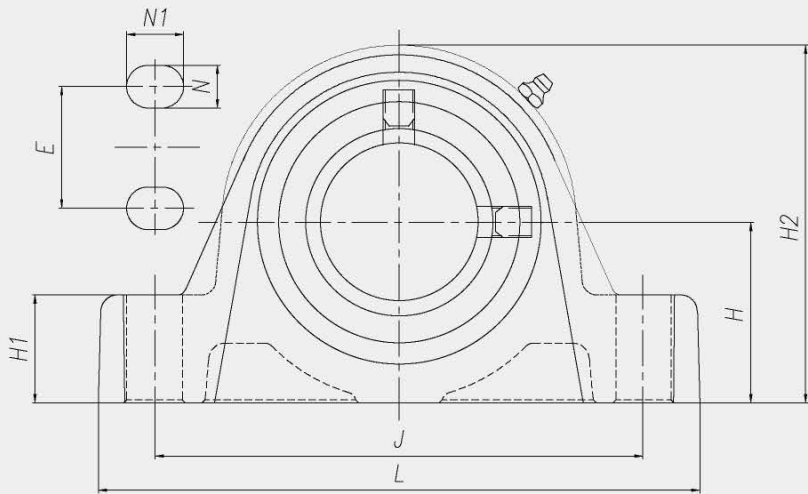
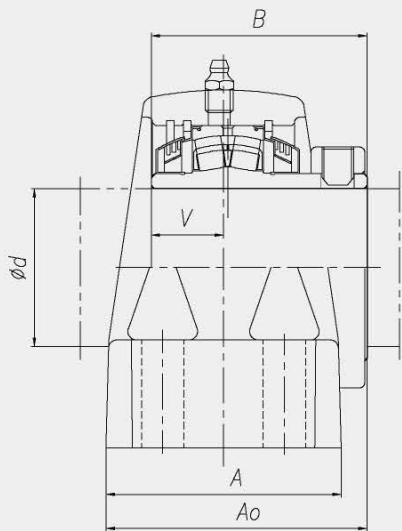




CS4P

顶丝同心圈锁紧的球面滚子轴承与4螺栓孔立式座的组件。

同心圈及相隔90° 经过防松处理的顶丝进行锁紧，可保持最大锁紧力。



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	E	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CS4P13-060	22213	60 mm	2-3/4 69.8	8-3/4 222	3-3/8 86	7-1/8 181	19/32 15	25/32 20	1-3/4 44	1-5/8 41	5-19/32 142	1-1/8 28.7	4-7/64 104.47	3-35/64 90.17	1/2 M12	15.99	7.27
CS4P13-207		2-7/16 in.														15.75	7.16
CS4P13-208		2-1/2 in.														15.46	7.03
CS4P13-065		65 mm														15.29	6.95
CS4P15-211	22215	2-11/16 in.	3-1/4 82.6	9-7/8 251	3-3/4 95	8-1/8 206	25/32 20	29/32 23	1-7/8 48	1-29/32 48	6-3/8 162	1-11/64 29.72	4-11/32 110.49	3-21/32 92.71	5/8 M16	21.29	9.68
CS4P15-212		2-3/4 in.														21.60	9.82
CS4P15-070		70 mm														21.12	9.6
CS4P15-215		2-15/16 in.														20.48	9.31
CS4P15-075		75 mm														20.43	9.29
CS4P15-300		3 in.														20.19	9.18
CS4P18-080	22218	80 mm	3-3/4 95.2	12-13/32 315	4-1/8 105	10 254	15/16 24	1-13/32 36	2 50.8	2-1/4 57	7-15/32 190	1-13/32 35.81	4-49/64 121.43	4-1/8 104.74	3/4 M20	35.53	16.15
CS4P18-085		85 mm														34.58	15.72
CS4P18-307		3-7/16 in.														34.40	15.64
CS4P18-308		3-1/2 in.														33.79	15.36
CS4P18-090		90 mm														33.37	15.17
CS4P20-100	22220	100 mm	4-1/4 108	14-3/4 375	4-1/2 114	12-7/32 310	15/16 24	1-1/2 38	2-1/4 57	2-7/16 62	8-11/32 212	1-19/32 40.39	5-9/32 134.34	4-41/64 117.73	3/4 M20	47.56	21.62
CS4P20-315		3-15/16 in.														47.54	21.61
CS4P20-400		4 in.														47.08	21.4
CS4P22-407	22222	4-7/16 in.	4-3/4 120.7	16-1/2 419	4-3/4 120	13-5/16 338	15/16 24	1-1/2 38	2-1/2 63.5	2-3/4 70	9-1/2 241	1-31/32 50	5-17/32 140.55	5-9/64 130.55	3/4 M20	68.13	30.97



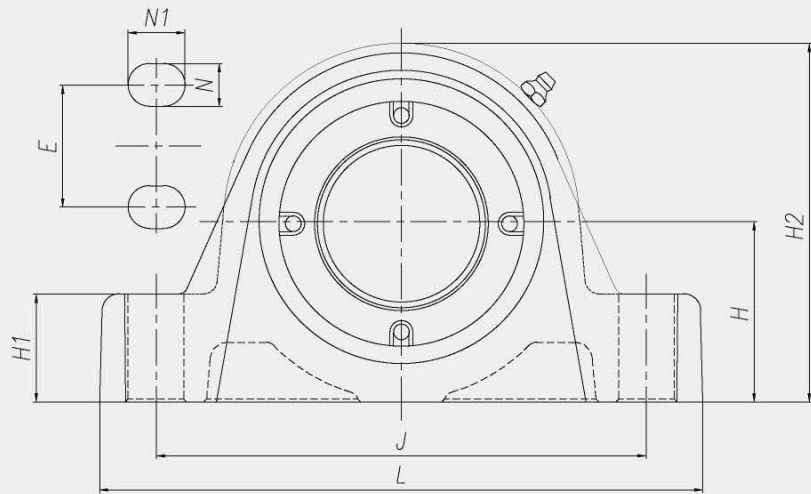
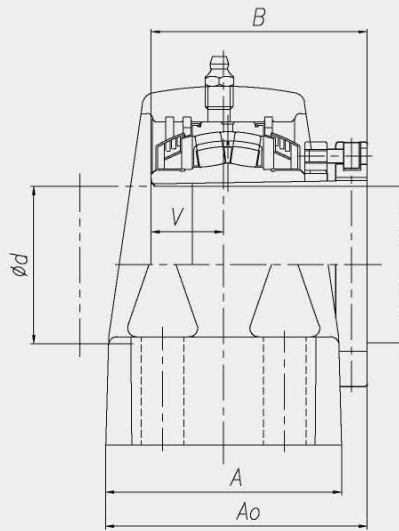


CXC4P

CROSSLOC™ CXC

CROSSLOC CXC 锁紧系统的球面滚子轴承与4螺栓孔立式座的组件。

全衬套长度全圆周抱紧，获得最大保持力



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	E	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm		lbs	kg
CXC4P13-060	22213	60 mm														16.21	7.37
CXC4P13-207		2-7/16 in.	2-3/4 69.8	8-3/4 222	3-3/8 86	7-1/8 181	19/32 15	25/32 20	1-3/4 44	1-5/8 41	5-19/32 142	1-1/8 28.7	4-15/16 99.98	3-3/8 85.68	1/2 M12	16.06	7.30
CXC4P13-208		2-1/2 in.														15.97	7.26
CXC4P13-065		65 mm														15.68	7.13
CXC4P15-211	22215	2-11/16 in.														21.51	9.78
CXC4P15-212		2-3/4 in.														21.82	9.92
CXC4P15-070		70 mm	3-1/4 82.6	9-7/8 251	3-3/4 95	8-1/8 206	25/32 20	29/32 23	1-7/8 48	1-29/32 48	6-3/8 162	1-11/64 29.72	4-11/64 105.9	3-15/32 88.12	5/8 M16	21.34	9.7
CXC4P15-215		2-15/16 in.														20.70	9.41
CXC4P15-075		75 mm														20.65	9.39
CXC4P15-300		3 in.														20.21	9.19
CXC4P18-080	22218	80 mm														35.86	16.30
CXC4P18-085		85 mm														35.64	16.20
CXC4P18-307		3-7/16 in.	3-3/4 95.2	12-13/32 315	4-1/8 105	10 254	15/16 24	1-13/32 36	2 50.8	2-1/4 57	7-15/32 190	1-13/32 35.81	4-23/32 119.71	4-1/16 103.02	3/4 M20	35.24	16.02
CXC4P18-308		3-1/2 in.														35.92	16.32
CXC4P18-090		90 mm														34.45	15.66
CXC4P20-100	22220	100 mm														49.98	22.72
CXC4P20-315		3-15/16 in.	4-1/4 108	14-3/4 375	4-1/2 114	12-7/32 310	15/16 24	1-1/2 38	2-1/4 57	2-7/16 62	8-11/32 212	1-19/32 40.39	5-5/16 134.77	4-21/32 118.16	3/4 M20	48.00	21.82
CXC4P20-400		4 in.														47.54	21.61
CXC4P22-407	22222	4-7/16 in.	4-3/4 120.7	16-1/2 419	4-3/4 120	13-5/16 338	15/16 24	1-1/2 38	2-1/2 63.5	2-3/4 70	9-1/2 241	1-31/32 50	5-5/8 143	5-15/64 133	3/4 M20	68.90	31.32

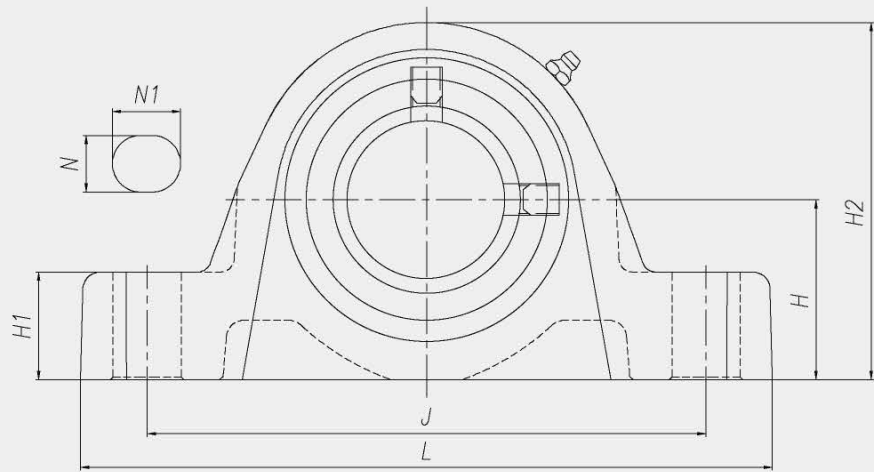
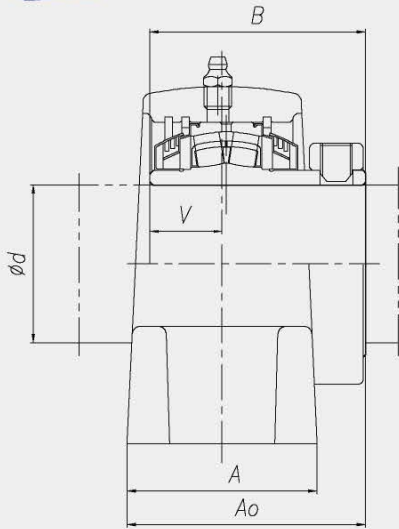




CS2EP

顶丝同心圈锁紧的球面滚子轴承与2螺栓孔E型立式座的组件。

同心圈及相隔90° 经过防松处理的顶丝进行锁紧，可保持最大锁紧力。



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm		lbs	kg
CS2EP08-107	22208	1-7/16 in.	1-7/8 47.6	7-5/16 185	2-1/8 54	5-3/4 146	19/32 15	25/32 20	1-1/8 28	3-27/32 98	7/8 22.35	2-57/64 73.5	2-45/64 68.89	1/2 M12	5.96	2.71
CS2EP09-111	22209	1-11/16 in.	2-1/8 54	7-13/16 198	2-1/8 54	6-1/4 159	19/32 15	25/32 20	1-1/4 32	4-9/32 109	59/64 23.37	2-29/32 73.7	2-49/64 70.1	1/2 M12	7.63	3.47
CS2EP10-115	22210	1-15/16 in.	2-1/4 57.2	8-21/32 220	2-1/8 54	7 178	25/32 20	15/16 24	1-5/16 33	4-1/2 114	57/64 22.61	3-1/64 76.5	2-27/32 72.14	5/8 M16	8.82	4.01
CS2EP10-200		2 in.													8.71	3.96
CS2EP11-203	22211	2-3/16 in.	2-1/2 63.5	9-5/8 244	2-5/8 67	7-3/4 197	25/32 20	15/16 24	1-1/2 38	4-31/32 126	1 25.45	3-5/16 84.1	3 76	5/8 M16	12.49	5.68
CS2EP13-207	22213	2-7/16 in.	2-3/4 69.8	10-5/32 258	2-13/16 72	8-1/2 216	25/32 20	15/16 24	1-5/8 41	5-19/32 142	1-1/8 28.7	3-27/32 97.47	3-35/64 90.17	5/8 M16	16.74	7.61
CS2EP13-208		2-1/2 in.													16.45	7.48
CS2EP15-211	22215	2-11/16 in.	3-1/8 79.5	11-21/32 296	3 76	9-1/2 241	15/16 24	1-11/32 34	1-29/32 48	6-1/4 159	1-11/64 29.72	3-31/32 101.0	3-21/32 92.71	3/4 M20	22	10
CS2EP15-212		2-3/4 in.													22.30	10.14
CS2EP15-215		2-15/16 in.													21.18	9.63
CS2EP15-300		3 in.													20.9	9.5
CS2EP18-307	22218	3-7/16 in.	3-3/4 95.2	13-3/16 335	3-3/8 86	11 279	1-1/16 27	1-5/16 33	2-1/4 57	7-15/32 190	1-13/32 35.81	4-13/32 111.8	4-1/8 104.74	7/8 M22	34.87	15.85
CS2EP18-308		3-1/2 in.													34.25	15.57



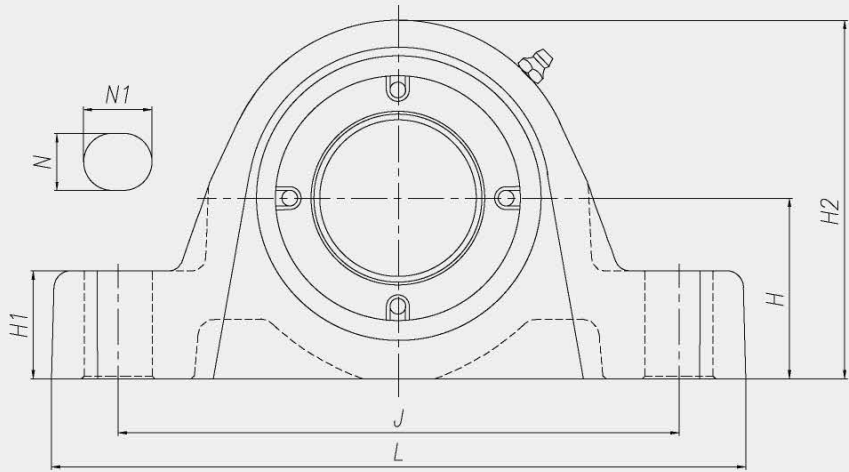
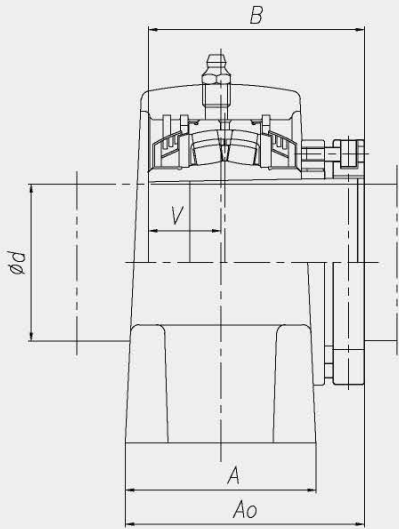


CXC2EP

CROSSLOC™ CXC

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全衬套长度全圆周抱紧，获得最大保持力



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CXC2EP08-107	22208	1-7/16 in.	1-7/8 47.6	7-5/16 185	2-1/8 54	5-3/4 146	19/32 15	25/32 20	1-1/8 28	3-27/32 98	7/8 22.35	2-57/64 73.5	2-45/64 68.89	1/2 M12	6.11	2.78
CXC2EP09-111	22209	1-11/16 in.	2-1/8 54	7-13/16 198	2-1/8 54	6-1/4 159	19/32 15	25/32 20	1-1/4 32	4-9/32 109	59/64 23.37	2-29/32 73.7	2-49/64 70.1	1/2 M12	8.03	3.65
CXC2EP10-115	22210	1-15/16 in.	2-1/4 57.2	8-21/32 220	2-1/8 54	7 178	25/32 20	15/16 24	1-5/16 33	4-1/2 114	57/64 22.61	3-1/64 76.5	2-27/32 72.14	5/8 M16	9.28	4.22
CXC2EP11-203	22211	2-3/16 in.	2-1/2 63.5	9-5/8 244	2-5/8 67	7-3/4 197	25/32 20	15/16 24	1-1/2 38	4-31/32 126	1 25.45	3-7/32 81.97	2-29/32 73.9	5/8 M16	12.87	5.85
CXC2EP13-207	22213	2-7/16 in.	2-3/4 69.8	10-5/32 258	2-13/16 72	8-1/2 216	25/32 20	15/16 24	1-5/8 41	5-19/32 142	1-1/8 28.7	3-21/32 92.98	3-3/8 85.68	5/8 M16	17.13	7.79
CXC2EP13-208		2-1/2 in.													17.22	7.83
CXC2EP15-211	22215	2-11/16 in.	3-1/8 79.5	11-21/32 296	3 76	9-1/2 241	15/16 24	1-11/32 34	1-29/32 48	6-1/4 159	1-11/64 29.72	3-51/64 96.41	3-15/32 88.12	3/4 M20	25.76	11.71
CXC2EP15-212		2-3/4 in.													22.57	10.26
CXC2EP15-215		2-15/16 in.													21.42	9.74
CXC2EP15-300		3 in.													21.16	9.62
CXC2EP18-307	22218	3-7/16 in.	3-3/4 95.2	13-3/16 335	3-3/8 86	11 279	1-1/16 27	1-5/16 33	2-1/4 57	7-15/32 190	1-13/32 35.81	4-11/32 110.08	4-1/16 103.02	7/8 M22	35.54	16.16
CXC2EP18-308		3-1/2 in.													35.19	16

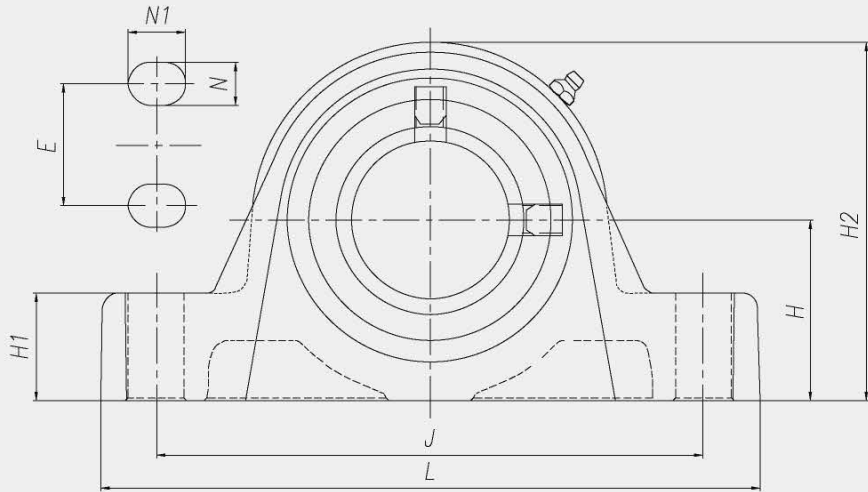
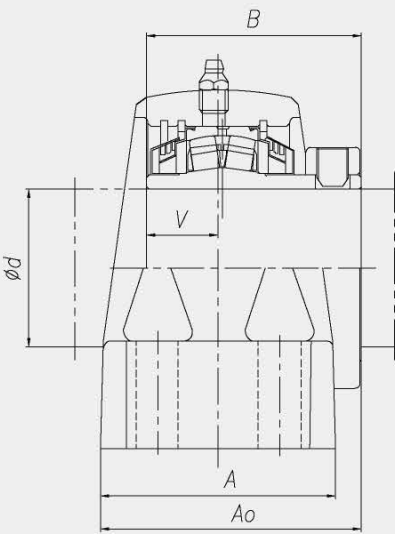




CS4EP

顶丝同心圈锁紧的球面滚子轴承与4螺栓孔E型立式座的组件。

同心圈及相隔90° 经过防松处理的顶丝进行锁紧，可保持最大锁紧力。



轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	E	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CS4EP13-207	22213	2-7/16 in.	2-3/4 69.8	10-1/2 267	3-1/2 89	8-1/2 216	25/32 20	7/8 22	1-7/8 48	1-5/8 41	5-23/32 145	1-1/8 28.7	4-3/16 106	3-35/64 90.17	5/8 M16	19.13	8.69
CS4EP13-208		2-1/2 in.														18.84	8.56
CS4EP15-211	22215	2-11/16 in.	3-1/8 79.5	12 305	4 102	9-1/2 241	25/32 20	1 25	2-1/8 54	1-29/32 48	6-11/32 161	1-11/64 29.72	4-1/2 114	3-21/32 92.71	5/8 M16	26.33	11.97
CS4EP15-212		2-3/4 in.														26.02	11.83
CS4EP15-215		2-15/16 in.														25.21	11.46
CS4EP15-300		3 in.														24.92	11.33
CS4EP18-307	22218	3-7/16 in.	3-3/4 95.2	13-1/2 343	4-1/2 114	11 279	15/16 24	1-3/16 30	2-3/8 60.3	2-1/4 57	7-11/16 195	1-13/32 35.81	4-61/64 125.93	4-1/8 104.74	3/4 M20	41.70	18.96
CS4EP18-308		3-1/2 in.														41.09	18.68
CS4EP20-315	22220	3-15/16 in.	4-1/4 108	15-1/4 387	4-1/2 114	12-1/2 317	15/16 24	1-3/16 30	2-1/4 57	2-7/16 62	8-11/16 220	1-19/32 40.39	5-9/32 134.34	4-41/64 117.73	3/4 M20	54.58	24.81
CS4EP20-400		4 in.														54.12	24.60
CS4EP22-407	22222	4-7/16 in.	4-3/4 120.7	16-5/8 422	4-3/4 120	13-1/2 343	15/16 24	1-3/16 30	2-1/2 63.5	2-3/4 70	9-21/32 245	1-31/32 50	5-17/32 140.55	5-9/64 130.55	3/4 M20	72.66	33.03



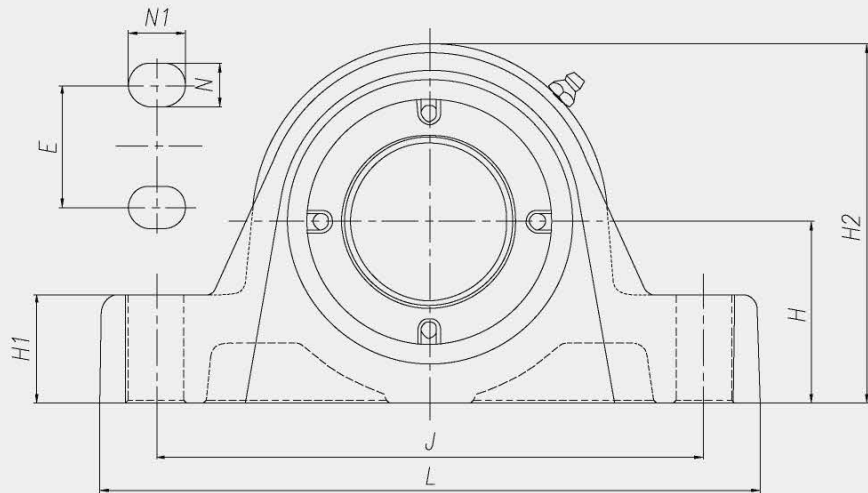
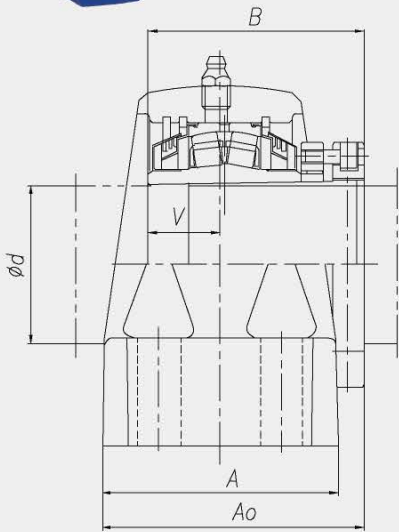


CXC4EP

CROSSLOC™ CXC

CROSSLOC CXC 锁紧系统的球面滚子轴承与4螺栓孔E型立式座的组件。

全衬套长度全圆周抱紧，获得最大保持力



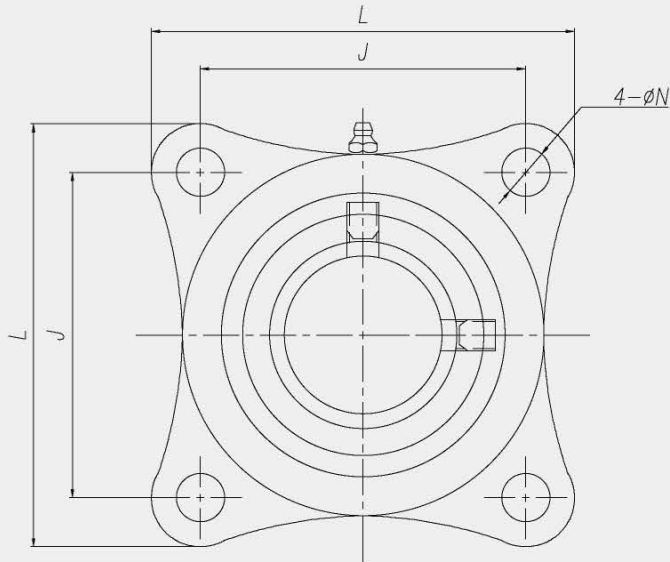
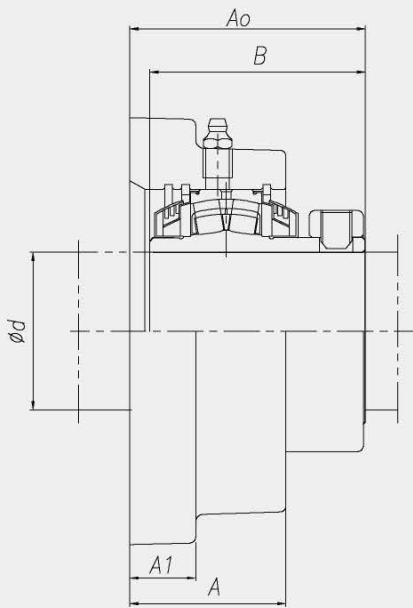
轴承组件 型号	轴承 型号	轴径 D	H	L	A	J	N	N1	E	H1	H2	V	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm		lbs	kg
CXC4EP13-207	22213	2-7/16 in.	2-3/4 69.8	10-1/2 267	3-1/2 89	8-1/2 216	25/32 20	7/8 22	1-7/8 48	1-5/8 41	5-23/32 145	1-1/8 28.7	4 101.51	3-35/64 90.17	5/8 M16	19.75	8.97
CXC4EP13-208		2-1/2 in.														19.86	9.02
CXC4EP15-211	22215	2-11/16 in.	3-1/8 79.5	12 305	4 102	9-1/2 241	25/32 20	1 25	2-1/8 54	1-29/32 48	6-11/32 161	1-11/64 29.72	4-5/16 109.41	3-21/32 92.71	5/8 M16	26.77	12.17
CXC4EP15-212		2-3/4 in.														26.46	12.03
CXC4EP15-215		2-15/16 in.														25.65	11.66
CXC4EP15-300		3 in.														24.96	11.35
CXC4EP18-307	22218	3-7/16 in.	3-3/4 95.2	13-1/2 343	4-1/2 114	11 279	15/16 24	1-3/16 30	2-3/8 60.3	2-1/4 57	7-11/16 195	1-13/32 35.81	4-57/64 124.21	4-1/8 104.74	3/4 M20	43.38	19.72
CXC4EP18-308		3-1/2 in.														45.35	20.60
CXC4EP20-315	22220	3-15/16 in.	4-1/4 108	15-1/4 387	4-1/2 114	12-1/2 317	15/16 24	1-3/16 30	2-1/4 57	2-7/16 62	8-11/16 220	1-19/32 40.39	5-5/16 134.77	4-41/64 117.73	3/4 M20	55.50	25.23
CXC4EP20-400		4 in.														55.04	25.02
CXC4EP22-407	22222	4-7/16 in.	4-3/4 120.7	16-5/8 422	4-3/4 120	13-1/2 343	15/16 24	1-3/16 30	2-1/2 63.5	2-3/4 70	9-21/32 245	1-31/32 50	5-5/8 143	5-9/64 130.55	3/4 M20	74.20	33.73



CS4F

顶丝同心圈锁紧的球面滚子轴承与4螺栓孔方形法兰座的组件。

同心圈及相隔90° 经过防松处理的顶丝进行锁紧，可保持最大锁紧力。



轴承组件 型号	轴承 型号	轴径 D	L	A	J	N	A1	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CS4F08-107	22208	1-7/16 in.	4-25/32 121	1-31/32 50	3-17/32 89.7	9/16 14.5	3/4 19	2-29/32 73.7	2-45/64 68.89	1/2 M12	5.30	2.41
CS4F08-108		1-1/2 in.									5.25	2.39
CS4F08-040		40 mm									5.32	2.42
CS4F09-111	22209	1-11/16 in.	5-1/8 130	2 51	3-57/64 98.8	9/16 14.5	3/4 19	2-15/16 74.7	2-49/64 70.1	1/2 M12	6.09	2.77
CS4F09-112		1-3/4 in.									6.02	2.74
CS4F09-045		45 mm									5.94	2.7
CS4F10-115	22210	1-15/16 in.	5-5/16 135	2-3/32 53	4-1/16 103.2	9/16 14.5	3/4 19	3-7/64 79	2-27/32 72.14	1/2 M12	7.26	3.3
CS4F10-050		50 mm									7.26	3.3
CS4F10-200		2 in.									7.23	3.29
CS4F11-055	22211	55 mm	5-27/32 149	2-5/32 55	4-33/64 114.7	11/16 18	29/32 23	3-17/64 83	3 76	5/8 M16	9.02	4.1
CS4F11-203		2-3/16 in.									8.95	4.07
CS4F11-204		2-1/4 in.									8.8	4
CS4F13-060	22213	60 mm	6-1/8 156	2-9/16 65	4-25/32 121.4	11/16 18	1-1/32 26	3-13/16 97	3-35/64 90.17	5/8 M16	11.66	5.3
CS4F13-207		2-7/16 in.									11.39	5.18
CS4F13-208		2-1/2 in.									11.06	5.03
CS4F13-065	22215	65 mm	7-7/32 183	2-5/8 67	5-9/16 141.3	7/8 22	1-1/32 26	3-15/16 100	3-21/32 92.71	3/4 M20	11	5
CS4F15-211		2-11/16 in.									16.96	7.71
CS4F15-212		2-3/4 in.									17.33	7.88
CS4F15-070		70 mm									16.80	7.64
CS4F15-215		2-15/16 in.									16.34	7.43
CS4F15-075		75 mm									16.28	7.4
CS4F15-300	22218	3 in.	8-9/32 210	3-5/32 80	6-23/32 170.7	7/8 22	1-5/32 29	4-31/64 114	4-1/8 104.74	3/4 M20	16.06	7.3
CS4F18-080		80 mm									27.5	12.50
CS4F18-085		85 mm									26.62	12.1
CS4F18-307		3-7/16 in.									25.74	11.7
CS4F18-308		3-1/2 in.									25.52	11.6
CS4F18-090		90 mm									24.86	11.3
CS4F20-100	22220	100 mm	9-1/4 235	3-7/16 87	7-39/64 193.3	31/32 25	1-3/16 30	4-15/16 125.3	4-41/64 117.73	7/8 M22	36.52	16.6
CS4F20-315		3-15/16 in.									36.3	16.5
CS4F20-400		4 in.									36.08	16.4



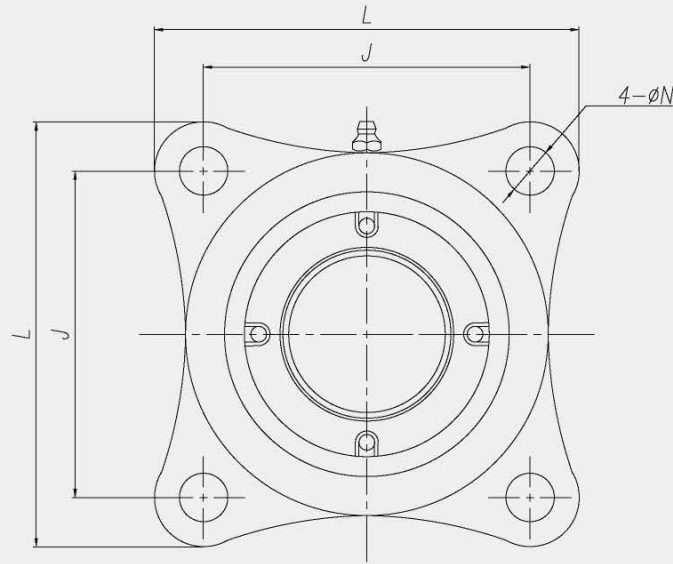
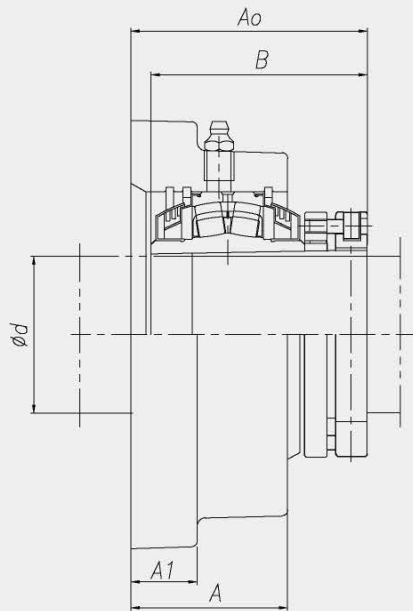


CXC4F

CROSSLOC™ CXC

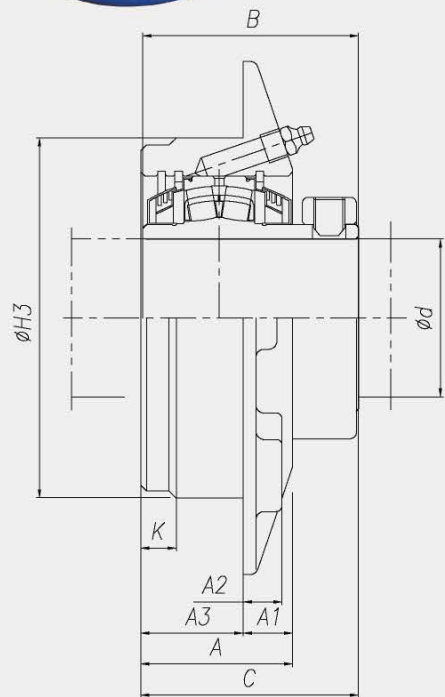
CROSSLOC CXC 锁紧系统的球面滚子轴承与4螺栓孔方形法兰座的组件。

全衬套长度全圆周抱紧，获得最大保持力



轴承组件 型号	轴承 型号	轴径 D	L	A	J	N	A1	A0	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CXC4F08-107	22208	1-7/16 in.	4-25/32 121	1-31/32 50	3-17/32 89.7	9/16 14.5	3/4 19	2-29/32 73.7	2-45/64 68.89	1/2 M12	5.456	2.48
CXC4F08-108		1-1/2 in.									5.41	2.46
CXC4F09-111	22209	1-11/16 in.	5-1/8 130	2 51	3-57/64 98.8	9/16 14.5	3/4 19	2-15/16 74.7	2-49/64 70.1	1/2 M12	6.43	2.92
CXC4F10-115	22210	1-15/16 in.	5-5/16 135	2-3/32 53	4-1/16 103.2	9/16 14.5	3/4 19	3-7/64 79	2-27/32 72.14	1/2 M12	7.63	3.47
CXC4F11-055	22211	55 mm	5-27/32 149	2-5/32 55	4-33/64 114.7	11/16 18	29/32 23	3-3/16 80.87	2-29/32 73.9	5/8 M16	9.34	4.23
CXC4F11-203		2-3/16 in.									9.218	4.19
CXC4F13-060	22213	60 mm	6-1/8 156	2-9/16 65	4-25/32 121.4	11/16 18	1-1/32 26	3-41/64 92.51	3-3/8 85.68	5/8 M16	11.858	5.39
CXC4F13-207		2-7/16 in.									11.68	5.31
CXC4F13-208		2-1/2 in.									11.594	5.27
CXC4F13-065		65 mm									11.308	5.14
CXC4F15-211	22215	2-11/16 in.	7-7/32 183	2-5/8 67	5-9/16 141.3	7/8 22	1-1/32 26	3-3/4 95.41	3-15/32 88.12	3/4 M20	17.84	8.11
CXC4F15-212		2-3/4 in.									17.556	7.98
CXC4F15-070		70 mm									17.028	7.74
CXC4F15-215		2-15/16 in.									16.566	7.53
CXC4F15-075		75 mm									16.5	7.50
CXC4F15-300		3 in.									16.26	7.39
CXC4F18-080	22218	80 mm	8-9/32 210	3-5/32 80	6-23/32 170.7	7/8 22	1-5/32 29	4-27/64 112.28	4-1/16 103.02	3/4 M20	27.83	12.65
CXC4F18-085		85 mm									27.39	12.45
CXC4F18-307		3-7/16 in.									26.95	12.25
CXC4F18-308		3-1/2 in.									26.07	11.85
CXC4F18-090		90 mm									25.85	11.75
CXC4F20-100	22220	100 mm	9-1/4 235	3-7/16 87	7-39/64 193.3	31/32 25	1-3/16 30	4-61/64 125.73	4-21/32 118.16	7/8 M22	37.18	16.90
CXC4F20-315		3-15/16 in.									37.07	16.85
CXC4F20-400		4 in.									36.85	16.75

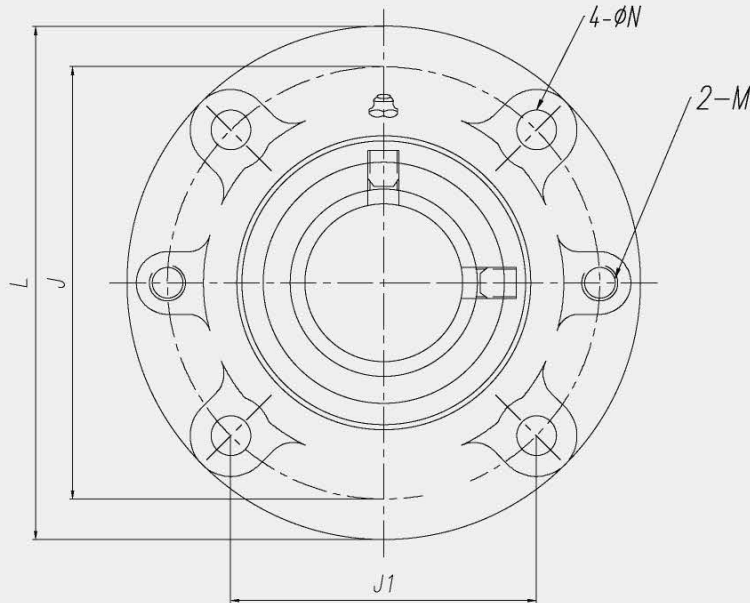




CS4FC

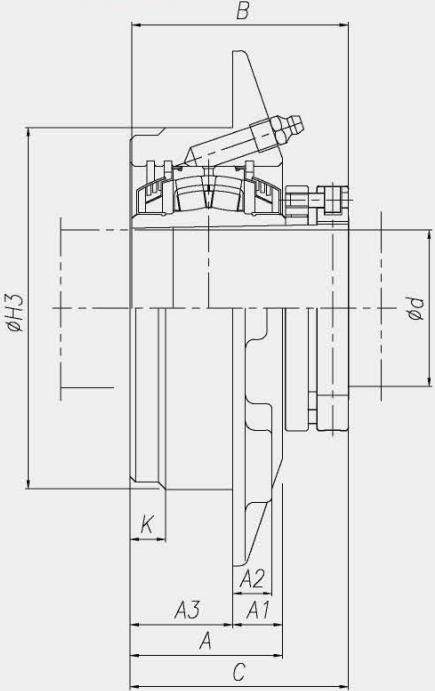
顶丝同心圈锁紧的球面滚子轴承与带导向止口的4孔圆形法兰座的组件。

同心圈及相隔90° 经过防松处理的顶丝进行锁紧，可保持最大锁紧力。



轴承组件 型号	轴承 型号	轴径 D	L	H3	J	J1	N	A	A1	A2	A3	C	K	M	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CS4FC08-107	22208	1-7/16 in.															4.70	2.14
CS4FC08-108		1-1/2 in.	5-1/4 133	3-5/8 92.1	4-3/8 111.1	3-3/32 78.6	15/16 12	1-25/32 45.5	19/32 15.5	1/2 13	1-3/16 30	2-23/32 69	13/32 10	3/8-16 UNC	2-45/64 68.89	3/8 M10	4.70	2.14
CS4FC08-040		40 mm															4.73	2.15
CS4FC09-111	22209	1-11/16 in.															5.85	2.66
CS4FC09-112		1-3/4 in.	6-5/32 156	4-1/4 107.8	5-1/8 130.2	3-5/8 92.1	9/16 14.5	1-7/8 48	5/8 16	1/2 13	1-1/4 32	2-49/64 70.4	13/32 10	7/16-14 UNC	2-49/64 70.1	1/2 M12	5.61	2.55
CS4FC09-045		45 mm															5.41	2.46
CS4FC10-115	22210	1-15/16 in.															7.06	3.21
CS4FC10-050		50 mm	6-3/8 162	4-1/2 114.3	5-3/8 136.5	3-51/64 96.5	9/16 14.5	1-15/16 49	21/32 17	9/16 14	1-1/4 32	2-55/64 72.6	13/32 10	7/16-14 UNC	2-27/32 72.14	1/2 M12	7.04	3.20
CS4FC10-200		2 in.															6.97	3.17
CS4FC11-055	22211	55 mm															9.35	4.25
CS4FC11-203		2-3/16 in.	7-1/8 181	5 127	6 152.4	4-1/4 107.8	9/16 14.5	2-3/32 53.5	21/32 17.5	17/32 13.7	1-13/32 36	3-1/32 77	15/32 12	1/2-13 UNC	3 76	1/2 M12	9.30	4.23
CS4FC11-204		2-1/4 in.															8.93	4.06
CS4FC13-060	22213	60 mm															12.52	5.71
CS4FC13-207		2-7/16 in.	7-5/8 194	5-1/2 139.7	6-1/2 165.1	4-19/32 116.7	9/16 14.5	2-11/32 59.7	25/32 20	5/8 16	1-9/16 39.7	3-35/64 90.2	15/32 12	1/2-13 UNC	3-35/64 90.17	1/2 M12	12.32	5.60
CS4FC13-208		2-1/2 in.															11.99	5.45
CS4FC13-065		65 mm															11.90	5.41
CS4FC15-211	22215	2-11/16 in.															18.37	8.35
CS4FC15-212		2-3/4 in.															18.39	8.36
CS4FC15-070		70 mm	8-3/4 222	6-3/8 161.9	7-1/2 190.5	5-19/64 134.7	23/32 18	2-5/8 66.7	1 25.4	3/4 19	1-5/8 41.3	3-23/32 94.5	15/32 12	5/8-11 UNC	3-21/32 92.71	5/8 M16	18.89	8.59
CS4FC15-215		2-15/16 in.															18.30	8.32
CS4FC15-075		75 mm															18.26	8.30
CS4FC15-300		3 in.															17.51	7.96
CS4FC18-080	22218	80 mm															28.24	12.84
CS4FC18-085		85 mm															27.36	12.44
CS4FC18-307		3-7/16 in.	10-1/4 260	7-3/8 187.3	8-5/8 219.1	6-3/32 154.9	7/8 22	3 75.9	1-15/32 37.4	15/16 24	1-17/32 38.5	4-1/8 105	17/32 13	3/4-10 UNC	4-1/8 104.74	3/4 M20	26.53	12.06
CS4FC18-308		3-1/2 in.															26.18	11.9
CS4FC18-090		90 mm															25.65	11.66
CS4FC20-100	22220	100 mm															35.70	16.23
CS4FC20-315		3-15/16 in.	10-7/8 276	8-1/8 206.4	9-3/8 238.1	6-5/8 168.4	7/8 22	3-5/32 80.5	1-13/32 36	1-1/8 29	1-3/4 44.5	4-41/64 118	9/16 14	3/4-10 UNC	4-41/64 117.73	3/4 M20	35.68	16.22
CS4FC20-400		4 in.															35.28	16.04



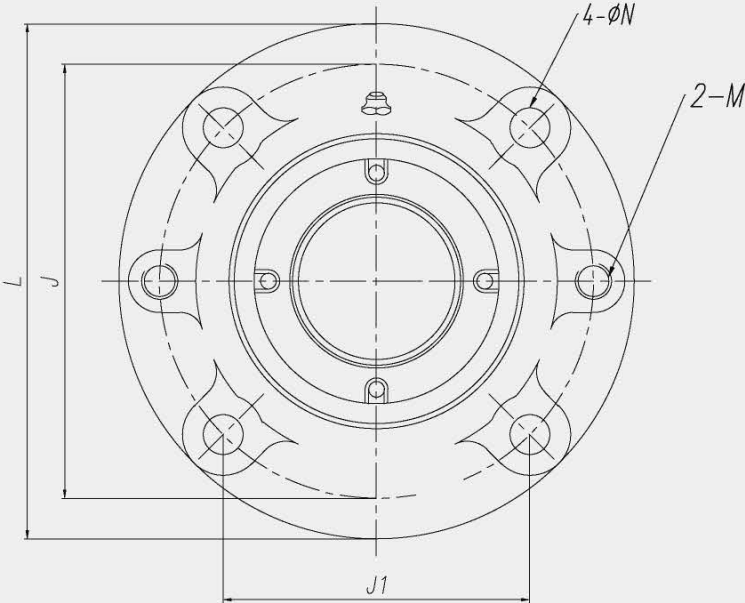


CXC4FC

CROSSLOC™ CXC

CROSSLOC CXC 锁紧系统的球面滚子轴承与带导向止口的4孔圆形法兰座的组件。

全衬套长度全圆周抱紧，获得最大保持力



轴承组件 型号	轴承 型号	轴径 D	L	H3	J	J1	N	A	A1	A2	A3	C	K	M	B	安装螺 栓尺寸	重量	
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	lbs	kg
CXC4FC08-107	22208	1-7/16 in.	5-1/4 133	3-5/8 92.1	4-3/8 111.1	3-3/32 78.6	15/16 12	1-25/32 45.5	19/32 15.5	1/2 13	1-3/16 30	2-23/32 69	13/32 10	3/8-16 UNC	2-45/64 68.89	3/8 M10	4.84	2.2
CXC4FC08-108		1-1/2 in.																
CXC4FC09-111	22209	1-11/16 in.	6-5/32 156	4-1/4 107.8	5-1/8 130.2	3-5/8 92.1	9/16 14.5	1-7/8 48	5/8 16	1/2 13	1-1/4 32	2-49/64 70.4	13/32 10	7/16-14 UNC	2-49/64 70.1	1/2 M12	6.11	2.78
CXC4FC10-115	22210	1-15/16 in.	6-3/8 162	4-1/2 114.3	5-3/8 136.5	3-51/64 96.5	9/16 14.5	1-15/16 49	21/32 17	9/16 14	1-1/4 32	2-55/64 72.6	13/32 10	7/16-14 UNC	2-27/32 72.14	1/2 M12	7.38	3.35
CXC4FC11-055	22211	55 mm	7-1/8 181	5 127	6 152.4	4-1/4 107.8	9/16 14.5	2-3/32 53.5	21/32 17.5	17/32 13.7	1-13/32 36	3-15/16 74.87	15/32 12	1/2-13 UNC	2-29/32 73.9	1/2 M12	9.68	4.40
CXC4FC11-203		2-3/16 in.															9.50	4.32
CXC4FC13-060	22213	60 mm	7-5/8 194	5-1/2 139.7	6-1/2 165.1	4-19/32 116.7	9/16 14.5	2-11/32 59.7	25/32 20	5/8 16	1-9/16 39.7	3-3/8 85.71	15/32 12	1/2-13 UNC	3-3/8 85.68	1/2 M12	12.78	5.81
CXC4FC13-207		2-7/16 in.															12.63	5.74
CXC4FC13-208		2-1/2 in.															12.54	5.70
CXC4FC13-065		65 mm															12.21	5.55
CXC4FC15-211	22215	2-11/16 in.	8-3/4 222	6-3/8 161.9	7-1/2 190.5	5-19/64 134.7	23/32 18	2-5/8 66.7	1 25.4	3/4 19	1-5/8 41.3	3-17/32 89.91	15/32 12	5/8-11 UNC	3-15/32 88.12	5/8 M16	18.67	8.49
CXC4FC15-212		2-3/4 in.															18.61	8.46
CXC4FC15-070		70 mm															19.11	8.69
CXC4FC15-215		2-15/16 in.															18.52	8.42
CXC4FC15-075		75 mm															18.48	8.40
CXC4FC15-300		3 in.															18.06	8.21
CXC4FC18-080	22218	80 mm	10-1/4 260	7-3/8 187.3	8-5/8 219.1	6-3/32 154.9	7/8 22	3 75.9	1-15/32 37.4	15/16 24	1-17/32 38.5	4-1/16 103.28	17/32 13	3/4-10 UNC	4-1/16 103.02	3/4 M20	28.57	12.99
CXC4FC18-085		85 mm															28.16	12.80
CXC4FC18-307		3-7/16 in.															27.69	12.59
CXC4FC18-308		3-1/2 in.															26.86	12.21
CXC4FC18-090		90 mm															26.51	12.05
CXC4FC20-100	22220	100 mm	10-7/8 276	8-1/8 206.4	9-3/8 238.1	6-5/8 168.4	7/8 22	3-5/32 80.5	1-13/32 36	1-1/8 29	1-3/4 44.5	4-21/32 118.43	9/16 14	3/4-10 UNC	4-21/32 118.16	3/4 M20	37.91	17.23
CXC4FC20-315		3-15/16 in.															36.25	16.48
CXC4FC20-400		4 in.															36.23	16.47

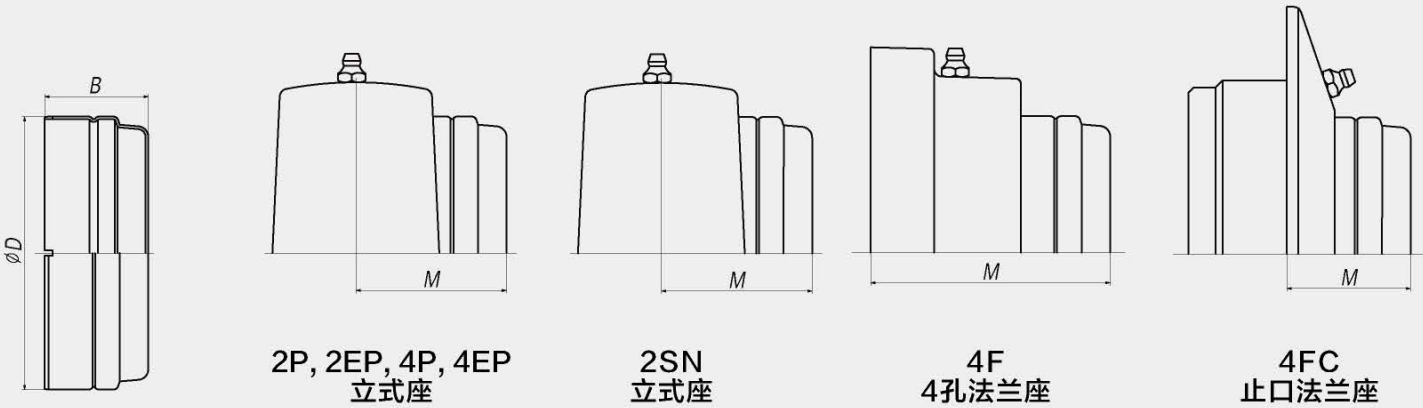


SSD 钢板冲压端盖

保护轴端不受损伤, 提供高速旋转时的安全防护。

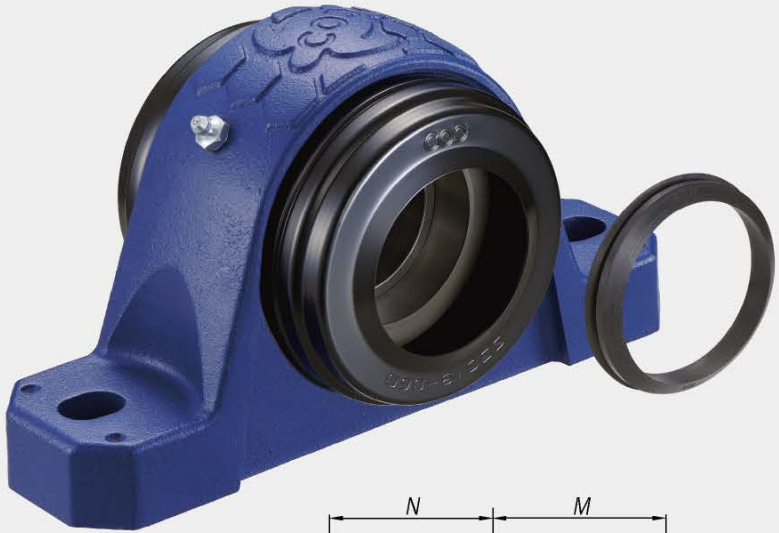


如上面图片的顺序, 用橡胶锤在对向位置轻敲即可安装。

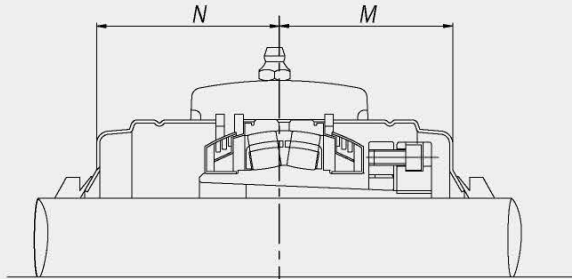
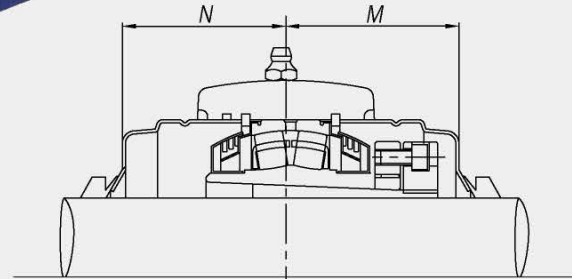
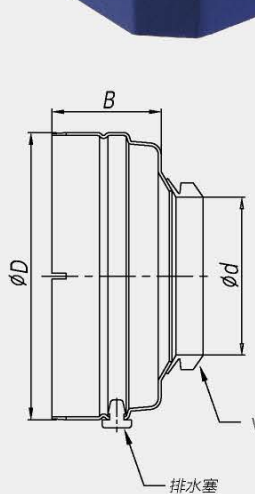


端盖型号	D	B	M			
			2P,2EP,4P,4EP 立式座	SN & SAF 立式座	4F 4 孔法兰座	4FC 止口法兰座
	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm
SSD08	3-5/32 80	1-13/32 36	2-3/32 53.2	- -	3-5/32 80.4	1-13/16 45.7
SSD09	3-11/32 85	1-3/8 35	2-1/16 52.4	- -	3-5/32 80.3	1-23/32 44
SSD10	3-17/32 90	1-19/32 40	2-9/32 57.7	2-9/32 57.7	3-7/16 87.2	1-29/32 48.8
SSD11	3-15/16 100	1-1/2 38	2-3/16 55	2-3/16 55	3-7/16 87.5	1-25/32 45.5
SSD12	4-11/32 110	1-23/32 44	- -	2-15/32 62.6	- -	- -
SSD13	4-23/32 120	1-31/32 50	2-29/32 73.4	2-13/16 71.6	4-9/32 108.8	2-15/32 62.3
SSD15	5-1/8 130	1-15/16 49	2-27/32 72.4	2-25/32 70.6	4-5/16 109.5	2-15/32 62.7
SSD16	5-1/2 140	2-1/16 52	- -	2-15/16 74.6	- -	- -
SSD17	5-29/32 150	2-1/16 52	- -	3 76.3	- -	- -
SSD18	6-5/16 160	1-31/32 50	3-1/16 78	3 76.3	4-27/32 123	2-31/32 75.6
SSD19	6-11/16 170	2-3/32 53	- -	3-3/16 80.8	- -	- -
SSD20	7-3/32 180	2-3/16 55	3-3/8 86	3-5/16 84.3	5-9/32 134	3-1/4 82.2
SSD22	7-7/8 200	2-3/8 60	3-21/32 92.5	3-21/32 92.5	- -	- -
SSD24	8-15/32 215	2-17/32 64	- -	3-15/16 100	- -	- -
SSD26	9-1/16 230	2-19/32 66	- -	4-1/8 105	- -	- -
SSD28	9-27/32 250	2-3/4 70	- -	4-3/8 111.2	- -	- -
SSD30	10-5/8 270	2-3/4 70	- -	4-9/16 115.7	- -	- -
SSD32	11-13/32 290	2-7/8 73	- -	4-13/16 122.2	- -	- -

SSC 钢板通盖（SN&SAF组件用）

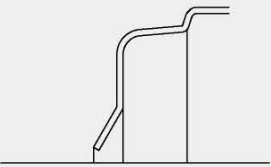
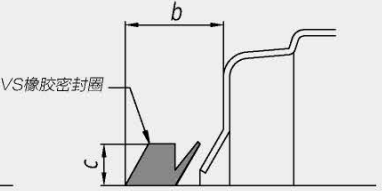
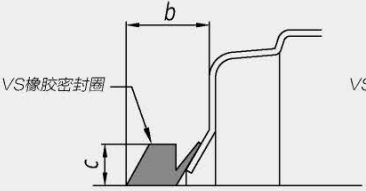


请参考第45页的使用说明。



SN & SAF与SSC通盖

SN & SAF可移动式与SSC通盖



接触密封

迷宫密封
(高速应用)

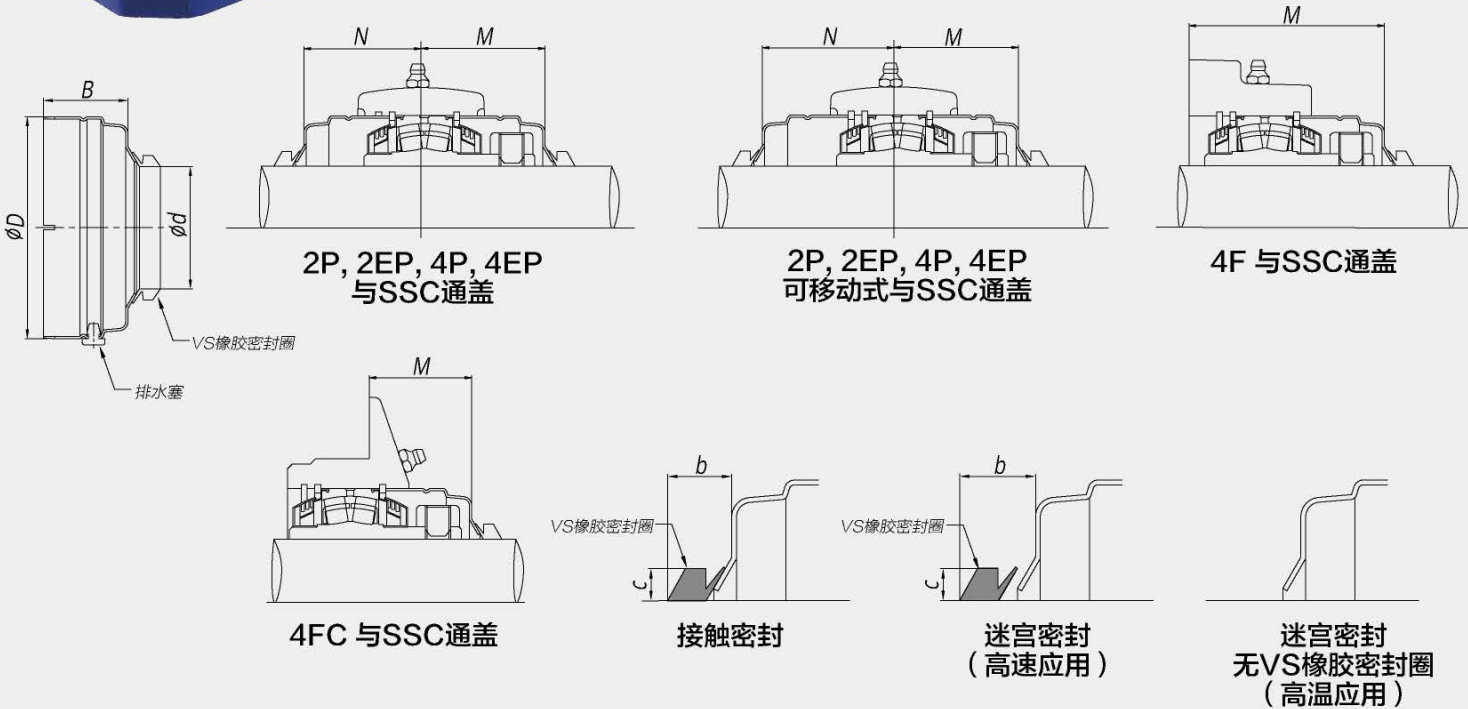
迷宫密封 无VS橡胶密封圈
(高温应用)

端盖型号	VS 橡胶密封圈	轴径 d	D	B	M	N		VS 橡胶密封圈		
					SN & SAF 立式座	SN & SAF 固定	SN & SAF 可移动 (E)	b	b (L)	c
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	
SSC10-045	VS-045	1-3/4 in.	3-17/32 90	1-19/32 40	2-9/32 57.7	2-3/64 52	2-1/4 57	31/64 12.5	9/16 14.5	13/64 5
		45 mm								
SSC11-050	VS-050	1-15/16 in.	3-15/16 100	1-1/2 38	2-3/16 55	2-1/16 52.2	2-19/64 58.2			
		50 mm								
		2 in.								
SSC12-055	VS-055	55 mm	4-11/32 110	1-23/32 44	2-15/32 62.6	2-11/32 59.7	2-5/8 65.7			
SSC13-060	VS-060	2-3/16 in.	4-23/32 120	1-31/32 50	2-13/16 71.6	2-5/8 66.6	2-55/64 72.6			
		60 mm								
SSC15-065	VS-065	2-7/16 in.	5-1/8 130	1-15/16 49	2-25/32 70.6	2-37/64 65.6	2-13/16 71.6			
		65 mm								
SSC16-070	VS-070	2-11/16 in.	5-1/2 140	2-1/16 52	2-15/16 74.6	2-47/64 69.6	2-63/64 75.6	39/64 15.5	11/16 17.5	15/64 6
		70 mm								
SSC17-075	VS-075	2-15/16 in.	5-29/32 150	2-1/16 52	3 76.3	2-51/64 71.1	3-1/32 77.1			
		75 mm								
SSC18-080	VS-080	80 mm	6-5/16 160	1-31/32 50	3 76.3	2-13/16 71.5	3-3/64 77.5			
SSC19-085	VS-085	85 mm	6-11/16 170	2-3/32 53	3-3/16 80.8	2-63/64 76	3-15/64 82			
SSC20-090	VS-090	3-7/16 in.	7-3/32 180	2-3/16 55	3-5/16 84.3	3-1/8 79.5	3-23/64 85.5			
		90 mm								
SSC22-100	VS-100	100 mm	7-7/8 200	2-3/8 60	3-21/32 92.5	3-1/2 88.7	3-23/32 94.7			
		3-15/16 in.								
SSC24-110	VS-110	110 mm	8-15/32 215	2-17/32 64	3-15/16 100	3-25/32 96.2	4-1/16 103.2	11/16 17.5	49/64 19.5	9/32 7
SSC26-115	VS-110	4-7/16 in.	9-1/16 230	2-19/32 66	4-1/8 105	3-63/64 101.2	4-17/64 108.2			
		115 mm								
SSC28-125	VS-130	125 mm	9-27/32 250	2-3/4 70	4-3/8 111.2	4-7/32 107.2	4-1/2 114.2			
		4-15/16 in.								
SSC30-135	VS-140	135 mm	10-5/8 270	2-3/4 70	4-9/16 115.7	4-15/64 107.7	4-19/32 116.7			
SSC32-140	VS-140	5-7/16 in.	11-13/32 290	2-7/8 73	4-13/16 122.2	4-1/2 114.2	4-27/32 123.2			
		5-1/2 in.								
		140 mm								

SSC 钢板通盖（CS&CXC组件用）



- 1. 确保轴不潮湿, 并且没有润滑脂或油附着。
- 2. 在VS橡胶密封圈的唇部涂上少量的润滑脂或硅油。
- 3. 手动施加压力, 沿着轴将VS橡胶密封圈滑动并旋转, 确保均匀接触。
- 4. 根据"b"尺寸, 调整VS橡胶密封圈的唇部与通盖之间的距离。
- 5. 在非接触密封的使用条件下, 请取下排水塞以排放进入的水。



端盖型号	VS 橡胶密封圈	轴径 d	D	B	M			N		VS 橡胶密封圈		
					2P,2EP, 4P,4EP 立式座	4F 4 孔法兰座	4FC 止口法兰座	2P,2EP, 4P,4EP 固定	2P,2EP, 4P,4EP 可移动 (E)	b	b (L)	c
			in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm	in. mm
SSC08-038	VS-038	1-7/16 in.	3-5/32 80	1-13/32 36	2-3/32 53.2	3-5/32 80.4	1-13/16 45.7	1-57/64 48	2-3/32 53	27/64 10.6	29/64 11.6	5/32 4
SSC08-040	VS-040	1-1/2 in.								31/64 12.5	9/16 14.5	13/64 5
		40 mm										
SSC09-045	VS-045	1-11/16 in.	3-11/32 85	1-3/8 35	2-1/16 52.4	3-5/32 80.3	1-23/32 44	1-27/32 46.8	2-1/32 51.8			
		1-3/4 in.										
		45 mm										
SSC10-050	VS-050	1-15/16 in.	3-17/32 90	1-19/32 40	2-9/32 57.7	3-7/16 87.2	1-29/32 48.8	2-1/32 51.5	2-7/32 56.5			
		50 mm										
		2 in.										
SSC11-055	VS-055	55 mm	3-15/16 100	1-1/2 38	2-3/16 55	3-7/16 87.5	1-25/32 45.5	2-1/16 52.2	2-19/64 58.2			
		2-3/16 in.										
		2-1/4 in.										
SSC13-060	VS-060	60 mm	4-23/32 120	1-31/32 50	2-29/32 73.4	4-9/32 108.8	2-15/32 62.3	2-9/16 65	2-51/64 71			
		2-7/16 in.										
SSC13-065	VS-065	2-1/2 in.										
		65 mm										
SSC15-070	VS-070	2-11/16 in.	5-1/8 130	1-15/16 49	2-27/32 72.4	4-5/16 109.5	2-15/32 62.7	2-33/64 63.8	2-3/4 69.8	39/64 15.5	11/16 17.5	15/64 6
		2-3/4 in.										
		70 mm										
SSC15-075	VS-075	2-15/16 in.	3 in.	3 in.	3 in.	3 in.	3 in.	3 in.				
		75 mm										
		3 in.										
SSC18-080	VS-080	80 mm	6-5/16 160	1-31/32 50	3-1/16 78	4-27/32 123	2-31/32 75.6	2-3/4 69.8	2-63/64 75.8			
SSC18-085	VS-085	85 mm										
		3-7/16 in.										
SSC18-090	VS-090	3-1/2 in.										
		90 mm										
SSC20-100	VS-100	100 mm	7-3/32 180	2-3/16 55	3-3/8 86	5-9/32 134	3-1/4 82.2	3-1/16 77.8	3-19/64 83.8			
		3-15/16 in.										
		4 in.										
SSC22-110	VS-110	4-7/16 in.	7-7/8 200	2-3/8 60	3-21/32 92.5	-	-	3-1/2 88.7	3-23/32 94.7	11/16 17.5	49/64 19.5	9/32 7



CROSSLOC™安装方法

- 1: 全部螺钉保持相对松动状态。
- 2: 如右侧图片示意，按数字顺序，对向依次紧固螺钉，重复数次到紧固状态。
- 3: 如果使用扭矩扳手，请参考下方的扭矩表数值。

注：外侧的螺母须与内侧的螺母平行移动。因此，需要对向拧紧螺钉，并重复此步骤，直到所有的螺钉完全拧紧。
非然，可能会导致螺钉变形和损坏。这类似于更汽车换轮毂的一般步骤。

CROSSLOC™拆卸方法

- 1: 松开所有的螺钉到自由状态。
- 2: 对向逆时针方向旋转螺钉，重复数次到拆卸下来。

注：拆卸CROSSLOC™时，需要先松开螺钉，然后逆时针旋转。虽然两者都是向左旋转，但逆时针旋转与松开不同。首先，请松开所有的螺钉。然后通过向内推动（CX）或向外拉动（CXC）外侧螺母来将套筒从内环中释放。按逆时针方向对角线旋转螺钉，直到卸下为止。与锁定时相同，外侧的螺母必须平行移动。

CROSSLOC™ 圆柱头螺钉紧固力矩表

CROSSLOC™ CX					CROSSLOC™ CXC				
轴径	轴承型号	螺钉规格	力矩	螺钉数量	轴径	轴承型号	螺钉规格	力矩	螺钉数量
1-15/16 - 2-7/16 in. 50 - 65 mm	22211-22215 CX	M5×12	59.1 in-lbs 6.7 Nm	4	1-7/16 - 3 in. 40 - 75 mm	22208-22215 CXC	M5×12	35.3 in-lbs 4 Nm	4
2-11/16, 2-15/16 in. 70 - 85 mm	22216-22219 CX	M6×14	83.5 in-lbs 9.5 Nm	4	3-1/4, 3-1/2 in. 80 - 90 mm	22218 CXC	M6×14	44.0 in-lbs 5 Nm	4
3-7/16 - 4-7/16 in. 90 - 115 mm	22220-22226 CX	M8×16	160.5 in-lbs 18.2 Nm	4	3-15/16 - 4-7/16 in. 100 - 110 mm	22220-22222 CXC	M8×16	88.2 in-lbs 10 Nm	4
4-15/16 - 5-1/2 in. 125 - 140 mm	22228-22232 CX	M8×16	160.5 in-lbs 18.2 Nm	6					

推荐轴配合公差

轴径	使用顶丝同心圈样式轴承时	使用 CROSSLOC™ 样式轴承时
1-7/16 - 2 in. 40 - 55 mm	-0.0015 in. -0.038 mm	-0.003 in. -0.076 mm
2-3/16 - 4 in. 60 - 100 mm	-0.002 in. -0.051 mm	-0.004 in. -0.102 mm
4-7/16 - 5-1/2 in. 110 - 140 mm	-0.003 in. -0.076 mm	-0.005 in. -0.127 mm

CS 顶丝力矩表

轴径	轴承型号	顶丝	力矩
1-7/16 - 2 in. 40 - 50 mm	22208-22210 CS	3/8 -24UNF M8×1.25	197 in-lbs 22.3 Nm
2-3/16, 2-1/4 in. 55 mm	22211 CS	7/16 -20UNF M10×1.25	269 in-lbs 30.5 Nm
2-7/16 - 3-1/2 in. 60 - 90 mm	22213-22218 CS	1/2 -20UNF M12×1.75	440 in-lbs 49.8 Nm
3-15/16 - 4-7/16 in. 100 - 110 mm	22220-22222 CS	5/8 -18UNF M16×2	920 in-lbs 102.8 Nm

安装螺栓力矩表

螺栓规格	力矩
3/8 in. / M10	168 in-lbs / 19 Nm
1/2 in. / M12	292 in-lbs / 33 Nm
5/8 in. / M16	735 in-lbs / 83 Nm
3/4 in. / M20	1460 in-lbs / 165 Nm
7/8 in. / M22	2018 in-lbs / 228 Nm
1 in. / M24	2398 in-lbs / 271 Nm
1-1/8 in. / M30	5036 in-lbs / 569 Nm
1-1/4 in. / M32	5495 in-lbs / 621 Nm

极限转速（rpm）

轴承型号	接触密封	迷宫密封
22208	4200	6000
22209	3600	5400
22210	3600	5400
22211	3000	5400
22212	3000	4800
22213	2500	3600
22215	2500	3600
22216	2000	3000
22217	2000	3000
22218	2000	3000
22219	2000	3000
22220	1500	2500
22222	1500	2500
22224	1000	2000
22226	1000	2000
22228	1000	2000
22230	1000	2000
22232	750	1500



推荐润滑表

轴承型号	润滑脂加入量 g/oz	推荐加油间隔（基于下面的运转速度 (rpm) 并连续运转）					
		10 个月	8 个月	6 个月	4 个月	2 个月	1 个月
22208	8.4 / 0.3	400	620	950	1460	2250	3470
22209	9.3 / 0.3	360	560	850	1340	2050	3120
22210	10.8 / 0.4	320	510	770	1240	1860	2810
22211	14.8 / 0.5	290	460	690	1140	1700	2530
22212	19.8 / 0.7	260	420	620	1050	1540	2270
22213	26.2 / 0.9	240	380	560	960	1400	2050
22215	32 / 1.1	210	350	500	890	1280	1840
22216	40.1 / 1.4	190	320	450	820	1160	1660
22217	52.9 / 1.9	170	290	410	750	1060	1490
22218	62 / 2.2	160	260	370	690	960	1340
22219	75.4 / 2.7	140	240	330	640	880	1210
22220	88.7 / 3.1	130	220	300	580	800	1090
22222	124.5 / 4.4	110	200	270	540	730	980
22224	152.1 / 5.4	100	180	240	500	660	880
22226	181.9 / 6.4	90	160	220	460	600	790
22228	244.4 / 8.6	80	150	200	420	550	710
22230	300.3 / 10.6	70	140	180	390	500	640
22232	372.9 / 13.2	70	120	160	350	450	580

注油嘴	轴承座型号			
A-1/4-28UNF	2P08 - 2P10	2EP08 - 2EP10	4F08 - 4F10	4FC08 - 4FC15
A-NPT 1/8	2P11 - 2P20	2EP11 - 2EP18	4P13 - 4P22	4EP13 - 4EP22
	4F11 - 4F20	4FC18 - 4FC20	2SN	2SAF
				4SAF



球面滚子轴承寿命计算

球面滚子轴承的基本额定动负荷, 当量动负荷和基本额定寿命的关系, 可以用下面公式表示:

$$L_{10} = \left(\frac{Cr}{Pr} \right)^{\frac{10}{3}}$$

$$L_{10h} = \frac{10^6 L_{10}}{60n} = \frac{10^6}{60n} \left(\frac{Cr}{Pr} \right)^{\frac{10}{3}}$$

$$\frac{Cr}{Pr} = \left(\frac{60n L_{10}}{10^6} \right)^{\frac{3}{10}}$$

公式中的符号意义:

L₁₀ : 基本额定寿命 (10⁶ 转)

L_{10h}: 基本额定寿命 (小时)

Cr : 基本额定动负荷 (lbs 或 N)

Pr : 当量动负荷 (lbs 或 N)

n : 转速 (min⁻¹)

(Cr/Pr) 与基本额定寿命(L_{10h}) 和转速(n) 之间的关系

轴承寿命 小时 (L10h)	转 速 (rpm)										
	50	100	150	300	500	750	1000	1500	2000	2500	3000
2500	1.83	2.25	2.54	3.13	3.65	4.12	4.50	5.08	5.54	5.92	6.25
5000	2.25	2.77	3.13	3.86	4.50	5.08	5.54	6.25	6.81	7.29	7.70
7500	2.54	3.13	3.54	4.36	5.08	5.73	6.25	7.06	7.70	8.23	8.69
10000	2.77	3.42	3.86	4.75	5.54	6.25	6.81	7.70	8.39	8.97	9.48
15000	3.13	3.86	4.36	5.36	6.25	7.06	7.70	8.69	9.48	10.13	10.70
20000	3.42	4.20	4.75	5.85	6.81	7.70	8.39	9.48	10.33	11.04	11.67
30000	3.86	4.75	5.36	6.60	7.70	8.69	9.48	10.70	11.67	12.47	13.17
40000	4.20	5.18	5.85	7.20	8.39	9.48	10.33	11.67	12.72	13.60	14.36
50000	4.50	5.54	6.25	7.70	8.97	10.13	11.04	12.47	13.60	14.54	15.36
60000	4.75	5.85	6.60	8.13	9.48	10.70	11.67	13.17	14.36	15.36	16.22
70000	4.97	6.12	6.92	8.51	9.92	11.21	12.22	13.80	15.04	16.08	16.99
80000	5.18	6.37	7.20	8.86	10.33	11.67	12.72	14.36	15.66	16.74	17.68
100000	5.54	6.81	7.70	9.48	11.04	12.47	13.60	15.36	16.74	17.90	18.91
150000	6.25	7.70	8.69	10.70	12.47	14.09	15.36	17.34	18.91	20.21	21.35

当量动负荷

轴承大多承受径向负荷与轴向负荷的合成负荷, 而且负荷条件多种多样, 如振动, 冲击等, 大小也会发生变化。因此, 不可能将轴承的实际负荷直接与基本额定动负荷进行比较。于是, 则采用将实际负荷换算成通过轴承中心且大小和方向一定的假想负荷来进行分析比较。这个假想负荷称做当量动负荷 (Pr)。

当量动负荷的计算

承受径向负荷和轴向负荷的轴承的当量径向动负荷 (Pr) 按下面公式计算。其振动系数和冲击条件系数在接下来的表中选取。

Pr = XFr + YFa

- 上式中,
- Pr: 径向当量动负荷, N
 - Fr: 径向负荷, N
 - Fa: 轴向负荷, N
 - X: 径向负荷系数 (见表1.1)
 - Y: 轴向负荷系数 (见表1.1)

表1.1

轴承 基本型号	基本额定动负荷 Cr		基本额定径负荷 Cor		e	Fa/Fr<e		Fa/Fr >e	
	lbs	kN	lbs	kN		X	Y	X	Y
22208	20408	90.7	21623	96.1	0.28	1	2.41	0.67	3.59
22209	21150	94	23625	105	0.26		2.57		3.82
22210	22095	98.2	25313	112.5	0.24		2.77		4.12
22211	27450	122	32625	145	0.24		2.93		4.21
22212	34200	152	39375	175	0.25		2.71		4.03
22213	40050	178	47700	212	0.25		2.71		4.03
22215	42075	187	51300	228	0.22		3		4.47
22216	50175	223	60525	269	0.22		3		4.47
22217	59175	263	71325	317	0.24		2.86		4.25
22218	67950	302	83925	373	0.24		2.86		4.25
22219	74025	329	92700	412	0.24		2.86		4.25
22220	83475	371	105975	471	0.24		2.78		4.14
22222	136350	606	164475	731	0.23		2.7		4.17
22224	153000	680	193275	859	0.25		2.92		4.15
22226	182250	810	260550	1158	0.25		2.88		4.08
22228	204975	911	279675	1243	0.27		2.76		4.11
22230	241425	1073	312075	1387	0.27		2.74		4.15
22232	270000	1200	393300	1748	0.24		2.86		4.21

e是轴向负荷对径向负荷的系数。

负荷系数

作用于轴承的径向负荷或轴向负荷虽然可以按照一般的力学方法计算, 但由于机械振动或冲击 等原因, 作用于轴承的实际负荷往往比计算值大。

因此, 计算时一般将理论计算值再乘以一个与机械振动或冲击有关的负荷系数, 如下式所示。

F = fw · Fc

- 上式中,
- F: 作用于轴承的实际负荷, N
 - Fc: 理论负荷, N
 - f w: 负荷系数 (见表1.2)

表1.2 负荷系数 fw

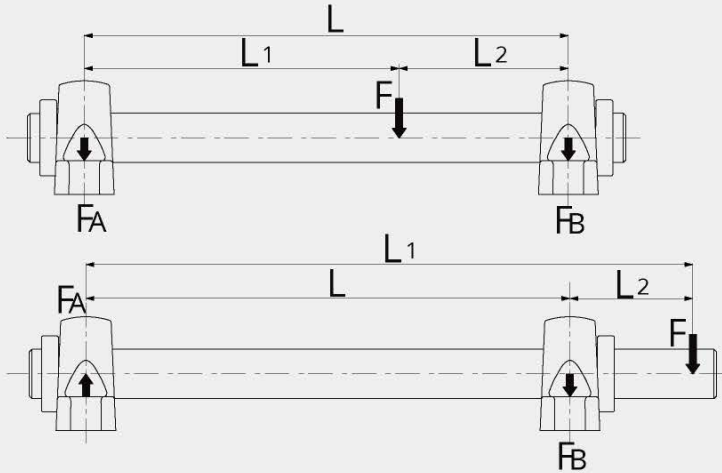
使用条件	用途例	fw
几乎无振动或冲击	电子机械, 仪表类等	1-1.2
一般运转 (有轻微冲击)	农业机械, 鼓风机等	1.2-2
有强烈振动或冲击	建设机械, 粉碎机等	2-3

轴承负荷的分配

作用于轴上的径向负荷的分配计算按下面图示及公式:

F_A= $\frac{L^2}{L}$ · F

F_B= $\frac{L^1}{L}$ · F





轴承选择表

各种寿命和转速条件下的轴承负荷(kN)

型号	L10 寿命 (Hr)	额定负荷 (kN) 和旋转速度 (RPM)															
		50	100	150	300	500	750	1000	1500	2000	2500	3000	3600	4200	4800	5400	6000
22208	10000	32.69	26.56	23.51	19.1	16.39	14.51	13.31	11.79	10.81	10.11	9.57	9.06	8.65	8.31	8.02	7.78
	25000	24.84	20.17	17.86	14.51	12.45	11.02	10.11	8.95	8.21	7.68	7.27	6.88	6.57	6.32	6.1	5.91
	50000	20.17	16.39	14.51	11.79	10.11	8.95	8.21	7.27	6.67	6.24	5.91	5.59	5.34	5.13	4.95	4.8
	70000	18.24	14.81	13.12	10.65	9.14	8.09	7.42	6.57	6.03	5.64	5.34	5.06	4.83	4.64	4.48	4.34
	100000	16.39	13.31	11.79	9.57	8.21	7.27	6.67	5.91	5.42	5.07	4.8	4.54	4.34	4.17	4.02	3.9
22209	10000	33.88	27.52	24.37	19.79	16.98	15.04	13.79	12.21	11.2	10.48	9.92	9.39	8.97	8.62	8.32	
	25000	25.74	20.91	18.51	15.04	12.9	11.42	10.48	9.28	8.51	7.96	7.54	7.14	6.81	6.55	6.32	
	50000	20.91	16.98	15.04	12.21	10.48	9.28	8.51	7.54	6.91	6.47	6.12	5.8	5.53	5.32	5.13	
	70000	18.9	15.35	13.59	11.04	9.47	8.39	7.69	6.81	6.25	5.84	5.53	5.24	5	4.81	4.64	
	100000	16.98	13.79	12.21	9.92	8.51	7.54	6.91	6.12	5.62	5.25	4.97	4.71	4.49	4.32	4.17	
22210	10000	35.4	28.75	25.46	20.68	17.74	15.71	14.41	12.76	11.7	10.95	10.36	9.81	9.37	9	8.69	
	25000	26.89	21.84	19.34	15.71	13.48	11.93	10.95	9.69	8.89	8.32	7.87	7.45	7.12	6.84	6.6	
	50000	21.84	17.74	15.71	12.76	10.95	9.69	8.89	7.87	7.22	6.75	6.39	6.05	5.78	5.55	5.36	
	70000	19.74	16.04	14.2	11.53	9.9	8.76	8.04	7.12	6.53	6.11	5.78	5.47	5.23	5.02	4.85	
	100000	17.74	14.41	12.76	10.36	8.89	7.87	7.22	6.39	5.87	5.49	5.19	4.92	4.7	4.51	4.35	
22211	10000	43.98	35.72	31.63	25.69	22.04	19.52	17.9	15.85	14.54	13.6	12.88	12.19	11.64	11.18	10.79	
	25000	33.41	27.14	24.03	19.52	16.74	14.83	13.6	12.04	11.05	10.33	9.78	9.26	8.84	8.49	8.2	
	50000	27.14	22.04	19.52	15.85	13.6	12.04	11.05	9.78	8.97	8.39	7.94	7.52	7.18	6.9	6.66	
	70000	24.53	19.92	17.64	14.33	12.29	10.89	9.99	8.84	8.11	7.59	7.18	6.8	6.49	6.24	6.02	
	100000	22.04	17.9	15.85	12.88	11.05	9.78	8.97	7.94	7.29	6.82	6.45	6.11	5.83	5.6	5.41	
22212	10000	54.79	44.5	39.41	32.01	27.46	24.32	22.3	19.75	18.12	16.94	16.04	15.19	14.5	13.93		
	25000	41.62	33.81	29.94	24.32	20.86	18.47	16.94	15	13.76	12.87	12.19	11.54	11.02	10.58		
	50000	33.81	27.46	24.32	19.75	16.94	15	13.76	12.19	11.18	10.46	9.9	9.37	8.95	8.6		
	70000	30.56	24.82	21.98	17.85	15.32	13.56	12.44	11.02	10.11	9.45	8.95	8.47	8.09	7.77		
	100000	27.46	22.3	19.75	16.04	13.76	12.19	11.18	9.9	9.08	8.49	8.04	7.61	7.27	6.98		
22213	10000	64.16	52.12	46.15	37.48	32.16	28.47	26.12	23.13	21.22	19.84	18.79	17.79				
	25000	48.74	39.59	35.06	28.47	24.43	21.63	19.84	17.57	16.12	15.07	14.27	13.51				
	50000	39.59	32.16	28.47	23.13	19.84	17.57	16.12	14.27	13.09	12.24	11.59	10.97				
	70000	35.79	29.07	25.74	20.91	17.94	15.88	14.57	12.9	11.83	11.07	10.48	9.92				
	100000	32.16	26.12	23.13	18.79	16.12	14.27	13.09	11.59	10.63	9.94	9.42	8.91				
22215	10000	67.41	54.75	48.48	39.38	33.78	29.91	27.44	24.3	22.29	20.85	19.74	18.69				
	25000	51.21	41.59	36.83	29.91	25.66	22.72	20.85	18.46	16.93	15.84	14.99	14.19				
	50000	41.59	33.78	29.91	24.3	20.85	18.46	16.93	14.99	13.75	12.86	12.18	11.53				
	70000	37.6	30.54	27.04	21.96	18.84	16.69	15.31	13.55	12.43	11.63	11.01	10.42				
	100000	33.78	27.44	24.3	19.74	16.93	14.99	13.75	12.18	11.17	10.45	9.89	9.36				
22216	10000	80.38	65.29	57.81	46.96	40.29	35.67	32.72	28.98	26.58	24.86	23.54					
	25000	61.06	49.6	43.92	35.67	30.6	27.1	24.86	22.01	20.19	18.88	17.88					
	50000	49.6	40.29	35.67	28.98	24.86	22.01	20.19	17.88	16.4	15.34	14.52					
	70000	44.84	36.42	32.25	26.19	22.47	19.9	18.25	16.16	14.83	13.87	13.13					
	100000	40.29	32.72	28.98	23.54	20.19	17.88	16.4	14.52	13.32	12.46	11.8					
22217	10000	94.8	77	68.18	55.38	47.51	42.07	38.59	34.17	31.35	29.32	27.76					
	25000	72.02	58.5	51.8	42.07	36.09	31.96	29.32	25.96	23.81	22.27	21.09					
	50000	58.5	47.51	42.07	34.17	29.32	25.96	23.81	21.09	19.34	18.09	17.13					
	70000	52.88	42.95	38.03	30.89	26.5	23.47	21.53	19.06	17.49	16.35	15.48					
	100000	47.51	38.59	34.17	27.76	23.81	21.09	19.34	17.13	15.71	14.69	13.91					

型号	L10 寿命 (Hr)	额定负荷 (kN) 和旋转速度 (RPM)										
		50	100	150	300	500	750	1000	1500	2000	2500	3000
22218	10000	108.86	88.42	78.3	63.6	54.56	48.31	44.32	39.24	36	33.67	31.87
	25000	82.7	67.17	59.48	48.31	41.45	36.7	33.67	29.81	27.34	25.57	24.21
	50000	67.17	54.56	48.31	39.24	33.67	29.81	27.34	24.21	22.21	20.77	19.67
	70000	60.72	49.32	43.67	35.47	30.43	26.95	24.72	21.89	20.08	18.78	17.78
	100000	54.56	44.32	39.24	31.87	27.34	24.21	22.21	19.67	18.04	16.87	15.97
22219	10000	118.59	96.33	85.29	69.28	59.44	52.63	48.28	42.75	39.21	36.67	34.72
	25000	90.09	73.18	64.79	52.63	45.15	39.98	36.67	32.47	29.79	27.86	26.38
	50000	73.18	59.44	52.63	42.75	36.67	32.47	29.79	26.38	24.2	22.63	21.43
	70000	66.15	53.73	47.58	38.64	33.15	29.36	26.93	23.84	21.87	20.46	19.37
	100000	59.44	48.28	42.75	34.72	29.79	26.38	24.2	21.43	19.65	18.38	17.4
22220	10000	133.73	108.62	96.18	78.13	67.03	59.35	54.44	48.21	44.22	41.36	
	25000	101.59	82.52	73.07	59.35	50.92	45.08	41.36	36.62	33.59	31.42	
	50000	82.52	67.03	59.35	48.21	41.36	36.62	33.59	29.74	27.29	25.52	
	70000	74.59	60.59	53.65	43.58	37.39	33.1	30.37	26.89	24.67	23.07	
	100000	67.03	54.44	48.21	39.16	33.59	29.74	27.29	24.16	22.16	20.73	
22222	10000	218.44	177.43	157.11	127.61	109.48	96.94	88.93	78.74	72.23	67.55	
	25000	165.94	134.79	119.35	96.94	83.17	73.64	67.55	59.82	54.87	51.32	
	50000	134.79	109.48	96.94	78.74	67.55	59.82	54.87	48.59	44.57	41.68	
	70000	121.84	98.97	87.63	71.18	61.07	54.07	49.6	43.92	40.29	37.68	
	100000	109.48	88.93	78.74	63.96	54.87	48.59	44.57	39.46	36.2	33.86	
22224	10000	245.12	199.1	176.29	143.19	122.85	108.78	99.78	88.36	81.05		
	25000	186.2	151.25	133.92	108.78	93.32	82.63	75.8	67.12	61.57		
	50000	151.25	122.85	108.78	88.36	75.8	67.12	61.57	54.52	50.01		
	70000	136.72	111.05	98.33	79.87	68.52	60.68	55.66	49.28	45.21		
	100000	122.85	99.78	88.36	71.77	61.57	54.52	50.01	44.28	40.62		
22226	10000	291.98	237.16	210	170.57	146.34	129.58	118.86	105.25	96.55		
	25000	221.8	180.16	159.53	129.58	111.16	98.43	90.29	79.95	73.34		
	50000	180.16	146.34	129.58	105.25	90.29	79.95	73.34	64.94	59.57		
	70000	162.86	132.28	117.13	95.14	81.62	72.28	66.3	58.71	53.85		
	100000	146.34	118.86	105.25	85.49	73.34	64.94	59.57	52.75	48.39		
22228	10000	328.38	266.73	236.18	191.84	164.58	145.73	133.68	118.37	108.58		
	25000	249.46	202.62	179.42	145.73	125.03	110.71	101.55	89.92	82.49		
	50000	202.62	164.58	145.73	118.37	101.55	89.92	82.49	73.04	67		
	70000	183.17	148.78	131.74	107.01	91.8	81.29	74.57	66.03	60.57		
	100000	164.58	133.68	118.37	96.15	82.49	73.04	67	59.33	54.42		
22230	10000	386.78	314.16	278.18	225.95	193.85	171.65	157.45	139.42	127.89		
	25000	293.82	238.66	211.32	171.65	147.26	130.39	119.61	105.91	97.15		
	50000	238.66	193.85	171.65	139.42	119.61	105.91	97.15	86.03	78.91		
	70000	215.74	175.24	155.17	126.03	108.13	95.74	87.83	77.77	71.34		
	100000	193.85	157.45	139.42	113.24	97.15	86.03	78.91	69.88	64.1		
22232	10000	432.56	351.35	311.11	252.7	216.79	191.96	176.09	155.92			
	25000	328.6	266.9	236.33	191.96	164.69	145.83	133.77	118.45			
	50000	266.9	216.79	191.96	155.92	133.77	118.45	108.65	96.21			
	70000	241.28	195.98	173.53	140.95	120.92	107.07	98.22	86.97			
	100000	216.79	176.09	155.92	126.65	108.65	96.21	88.25	78.15			