

JIASHAN HAOYU NON-OIL LUBRICATED BEARINGS PLANT.

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HAOYU OIL-LUBRICATED BEARINGS

嘉善浩宇无油润滑轴承厂



HAOYU OIL-LUBRICATED BEARINGS

公司简介 Introduction

嘉善浩宇无油润滑轴承厂地处长江三角洲都市经济圈前缘，与上海零距离接壤，距杭州、苏州均约90公里，地理位置优越，交通十分便利。

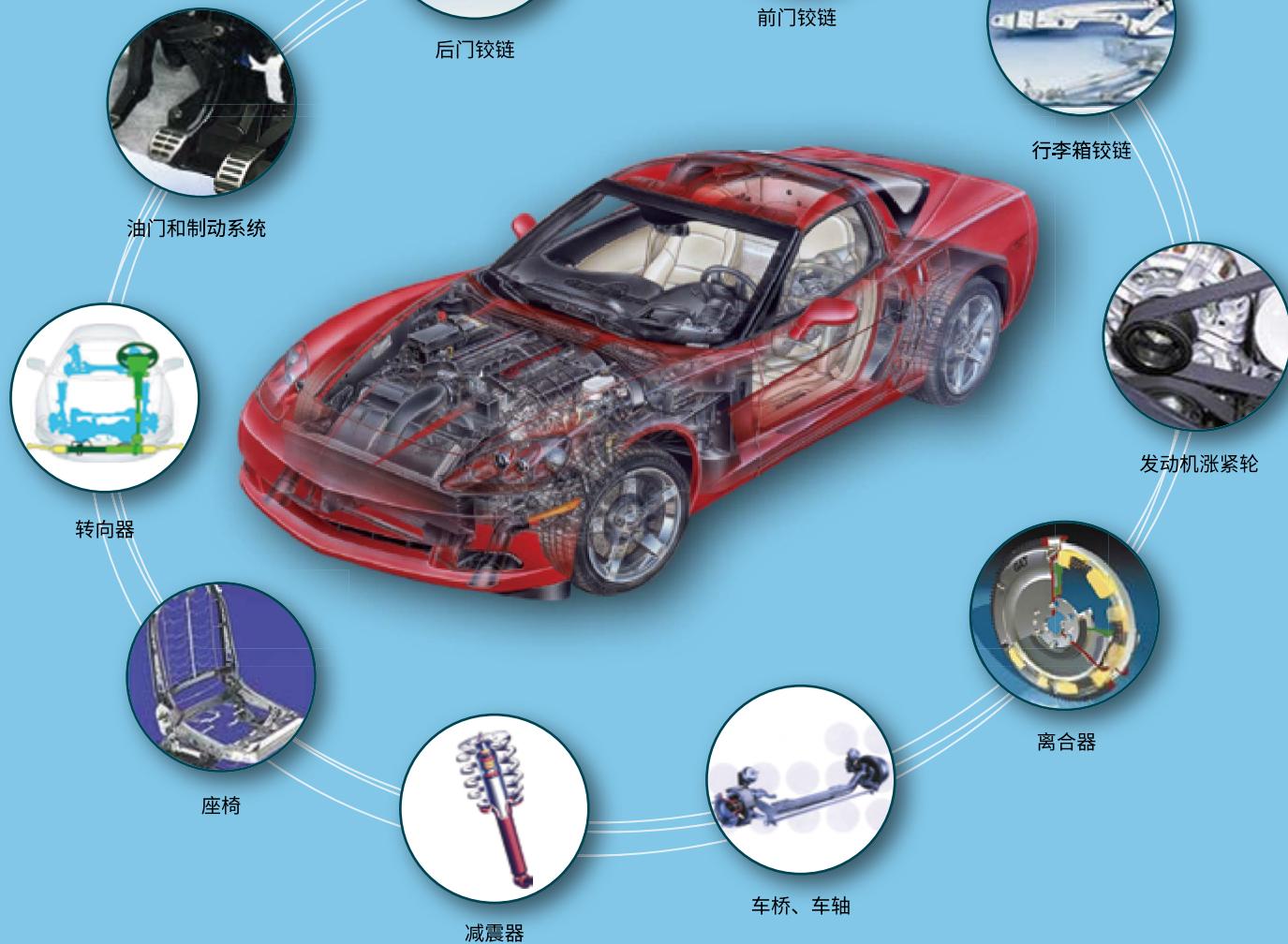
嘉善浩宇无油润滑轴承厂是一家专业生产的SF-1型、SF-2型、JDB、轴承板材、不锈钢轴承套、镀锡轴承套等产品。其经营的SF-1型、SF-2型、JDB、BU不锈钢轴承套、镀锡轴承套畅销消费者市场，产品在消费者当中享有较高的地位，与多家零售商建立了长期的合作关系。公司生产的轴承套品种齐全、价格合理。且该公司重信用、守合同、保证产品质量，以多品种经营特色原则，赢得了广大客户的信任。价格方面也远远低于其他生产单位。公司现诚心等待各位买家的咨询及订购！

嘉善浩宇无油润滑轴承厂产品拥有五大类别，二十大系列，上千种规格。生产过程中严格控制生产流程，精确量化每一个生产环节，积极配合客户之无忧运转之目的。



HAOYU OIL-LUBRICATED BEARINGS

HAOYU企业产品
汽车行业的应用





低碳钢+铜粉+PTFE

HYB-10无给油轴承 Non-oil Bearing

适用于无法加油或较难的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；对磨轴的加工要求低，减轻了用户加工成本。另外，HYB开发了应用于齿轮泵、柱塞泵等流体润滑条件下高速自润滑轴承HYB-10HP。在流体润滑条件下线速度可以达到10m/s，PV达到60N/mm²·m/s。

Apply to the oil or the more difficult parts of the work, wear resistance, low coefficient of friction, long life; good performance, low noise, no pollution, good corrosion resistance; running play in the protection of the formation of transfer film The role of axes grinding, no bite shaft phenomenon; low processing requirements of the shaft to reduce processing costs for users. In addition, HYB developed to used gear pumps, piston pumps and other fluid lubrication under high-speed self-lubricating bearings HYB-10HP. Lubrication conditions in the fluid off the assembly line speed can reach 10m / s, PV to 60N/mm² · m/s.

最大承载 Max. Load	静承载 Static 动承载 Dynamic	250 N/mm ² 140 N/mm ²	使用温度 Temp. 摩擦系数 Friction coefficient	-195°C ~ 280°C 0.03 ~ 0.20
最高线速度 Max. Speed	干 Dry 流体 Lubrication	2m/s >2m/s	导热系数 Thermal conductivity	42W (m · k) ¹
最大PV(干) Max. PV(Dry)	短时间 Short-term 连续 Continuos	3.6 N/mm ² · m/s 1.8 N/mm ² · m/s	热膨胀系数 coefficient of thermal expansion	11×10 ⁻⁶ k ⁻¹



青铜基+铜粉+PTFE

HYB-11 干式无给油轴承 Dry Non-oil Bearing

适用于无法加油或较难的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；对磨轴的加工要求低，减轻了用户加工成本；由于基板是青铜，因此比HYB-10拥有比其他干式轴承更好的耐腐蚀性。

HYB-11 is of high safety factor, and is particularly appropriate for high temperature environment where no oil is efficient and where the machine must be under successive long period working condition. This is widely used in steel metallurgy industry such as bushes for roller grooves of successive casting machines, cement grouting pumps and screw conveyors for cement. It can also be composed in steel housing or fabricated into flanged bushes which can move both in radial and in axial directions.

最大承载 Max. Load	静承载 Static 动承载 Dynamic	250 N/mm ² 140 N/mm ²	使用温度 Temp. 摩擦系数 Friction coefficient	-195°C ~ 280°C 0.03 ~ 0.20
最高线速度 Max. Speed	干 Dry 流体 Lubrication	2m/s >2m/s	导热系数 Thermal conductivity	70W (m · k) ¹
最大PV(干) Max. PV(Dry)	短时间 Short-term 连续 Continuos	3.6 N/mm ² · m/s 1.8 N/mm ² · m/s	热膨胀系数 coefficient of thermal expansion	17×10 ⁻⁶ k ⁻¹



低碳钢+铜粉+PTFE/纤维 (黄褐色)

HYB-12 往复运动轴承 Reciprocate Self-lubricating Bearing

该材料是根据减震器往复运动且侧向受力较大的特殊条件而开发的产品。它有很低的摩擦系数和较好的耐磨损性，能在半干燥条件下使用。产品主要用于汽车减震器、摩托车减震器、液压油缸等。

This material is based on reciprocating shock absorber and a larger lateral force developed the special conditions of the product. It has very low coefficient of friction and good wear resistance, can be used in semi-arid conditions. It widely used in automotive shock absorbers, motorcycle shock absorbers, hydraulic cylinders, etc.

最大承载 Max. Load	静承载 Static 动承载 Dynamic	250 N/mm ² 140 N/mm ²	使用温度 Temp. 摩擦系数 Friction coefficient	-195°C ~ 280°C 0.03 ~ 0.20
最高线速度 Max. Speed	干 Dry 流体 Lubrication	2m/s >2m/s	导热系数 Thermal conductivity	42W (m·k) ⁻¹
最大PV(干) Max. PV(Dry)	短时间 Short-term 连续 Continuos	3.6 N/mm ² · m/s 1.8 N/mm ² · m/s	热膨胀系数 coefficient of thermal expansion	11×10 ⁻⁶ K ⁻¹
PV流体润滑	PV Hydrodynamic	30 N/mm ² · m/s		



低碳钢+铜粉+PTFE/纤维 (红色)

HYB-13 无给油轴承 (红色) Non-oil Bearing

适用于无法加油或较难的工作部位，耐磨性能好、摩擦系数小、使用寿命长；走合性能好、低噪音、无污染、耐腐蚀性好；运转中形成的转移膜起到保护对磨轴的作用，无咬轴现象；对磨轴的加工要求低，减轻了用户加工成本；同时SF-1W特殊的耐磨损层设计在润滑条件下比其他的干式轴承具有更良好的的耐磨损性与极低的摩擦系数。

Apply to the oil or the more difficult parts of the work, wear resistance, low coefficient of friction, long life; go together good performance, low noise, no pollution, good corrosion resistance; running play in the protection of the formation of transfer film shaft, while the role of non-bite-axis phenomenon; the shaft, low processing requirements, reduce processing costs for users; while SF-1T special wear-resistant lubricating layer design in dry conditions than other bearing has a better resistance to grindability and low coefficient of friction.

最大承载 Max. Load	静承载 Static 动承载 Dynamic	250 N/mm ² 140 N/mm ²	使用温度 Temp. 摩擦系数 Friction coefficient	-195°C ~ 280°C 0.03 ~ 0.20
最高线速度 Max. Speed	干 Dry 流体 Lubrication	2m/s >2m/s	导热系数 Thermal conductivity	42W (m·k) ⁻¹
最大PV(干) Max. PV(Dry)	短时间 Short-term 连续 Continuos	3.6 N/mm ² · m/s 1.8 N/mm ² · m/s	热膨胀系数 coefficient of thermal expansion	11×10 ⁻⁶ K ⁻¹
PV流体润滑	PV Hydrodynamic	30 N/mm ² · m/s		



低碳钢+铜粉+PTFE

HYB-14齿轮油泵轴承 Gear Pump Bearing

该产品与HYB-10具有相同结构，是齿轮油泵专用轴承。根据齿轮油泵的高PV值条件而设计的特殊配方产品。它具有摩擦系数小而稳定，耐磨性能好，抗冲击的特点，产品广泛应用于齿轮油泵、柱塞泵、叶片泵等。

HYB-14 Gear Pump Bearing has the same structure as HYB-10, it is special for gear pump. It is a special formula product devised by high PV value operational mode conditions of gear oil pump. Characterized by low friction factor, stability, well wearing performance and impact resistance, it has been widely applied to gear pumps, radial piston pumps and vane pumps etc.

最大承载 Max. Load	静承载 Static 动承载 Dynamic	250 N/mm ² 140 N/mm ²	使用温度 Temp. 摩擦系数 Friction coefficient	-195°C ~ 280°C 0.03 ~ 0.20
最高线速度 Max. Speed	干 Dry 流体 Lubrication	2m/s >2m/s	导热系数 Thermal conductivity	70W (m·k) ¹
最大PV(干) Max. PV(Dry)	短时间 Short-term 连续 Continuos	3.6 N/mm ² ·m/s 1.8 N/mm ² ·m/s	热膨胀系数 coefficient of thermal expansion	17×10 ⁻⁶ k ⁻¹



316+PTFE

HYB-60 涂喷不锈钢无给油轴承 Non-oil Bearing Spray Coating

以不锈钢材料为基体，表面涂喷PTFE组成的高耐蚀、耐磨轴承。该材料特别适应强酸、强碱、轻载中低速的场合，其耐磨性能明显优于单体PTFE轴套和石墨轴套。目前该产品已广泛用于化工酸碱流量计、泵、阀以及海洋工业中耐腐蚀滑动的部位。

Stainless steel material as the substrate, coated with PTFE spray composed of high corrosion, wear-resistant bearings. The material specially adapted to acid, alkali, light-load low-speed situations, its wear resistance is superior to single PTFE sleeve and graphite sleeve. The product has been widely used in chemical PH meter, pumps, valves, and corrosion-resistant marine industry in the sliding parts.

最大承载 Max. Load	静承载 Static 动承载 Dynamic	250 N/mm ² 140 N/mm ²	使用温度 Temp. 摩擦系数 Friction coefficient	-195°C ~ 280°C 0.03 ~ 0.20
最高线速度 Max. Speed	干 Dry 流体 Lubrication	2m/s >2m/s	导热系数 Thermal conductivity	42W (m·k) ¹
最大PV(干) Max. PV(Dry)	短时间 Short-term 连续 Continuos	3.6 N/mm ² ·m/s 1.8 N/mm ² ·m/s	热膨胀系数 coefficient of thermal expansion	11×10 ⁻⁶ k ⁻¹

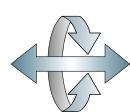


请从适用的内径、外径、长度中选择零件号
(例)内径15mm、长度10mm的情况下

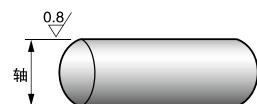
HYB-10- 1510

请指定上述零件号

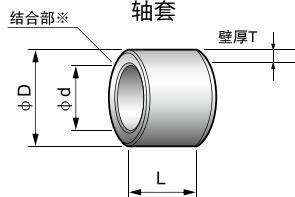
运动方向



对偶轴



轴套

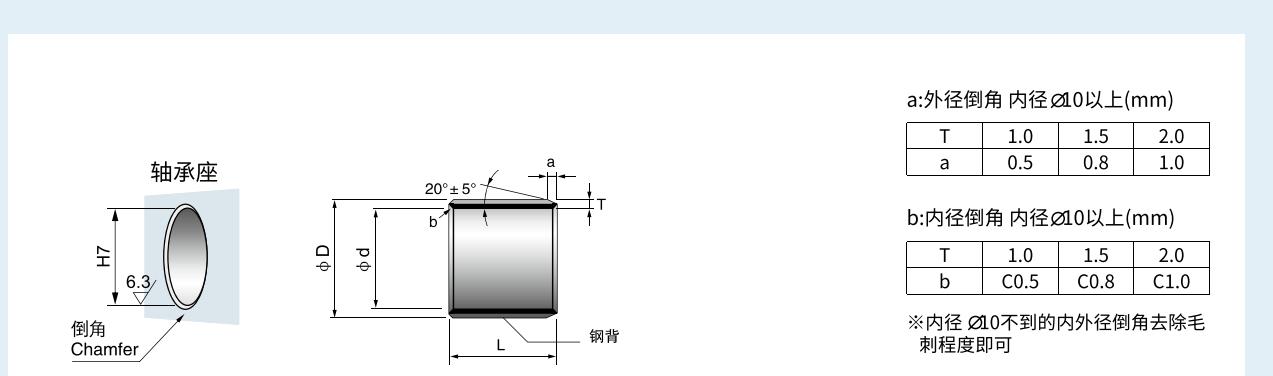


※结合部对于轴旋转没有影响，但尽量避免安装在负荷大的部位处压入。

轴 shaft	座孔housing	内径	外径		壁厚		长度 L _{-0.40} ⁰				
			H7	Ø d	Ø D	T	4	5	6	8	10
5	-0.010 -0.022	7	+0.015 ₀	5	7	+0.055 +0.025	1.0	+0.005 -0.020	0505		
6	-0.013 -0.028	8	"	6	8	"	"	"	0604	0606	0608
7	"	9	"	7	9	"	"	"			
8	"	10	"	8	10	"	"	"		0806	0808
10	"	12	+0.018 ₀	10	12	+0.065 +0.030	"	"			1008
12	-0.016 -0.034	14	"	12	14	"	"	"			1208
13	"	15	"	13	15	"	"	"			1310
14	"	16	"	14	16	+0.065 +0.035	"	"	1405		1410
15	"	17	"	15	17	"	"	"			1510
16	"	18	"	16	18	"	"	"			1610
17	"	19	+0.021 ₀	17	19	+0.075 +0.035	"	"			1710
18	"	20	"	18	20	"	"	"			1810
20	-0.020 -0.041	23	"	20	23	"	1.5	+0.005 -0.025			2010
22	"	25	"	22	25	"	"	"			2210
24	"	27	"	24	27	"	"	"			
25	"	28	"	25	28	"	"	"			2510
28	"	32	+0.025 ₀	28	32	+0.085 +0.045	2.0	+0.005 -0.030			
30	"	34	"	30	34	"	"	"			
32	-0.025 -0.050	36	"	32	36	"	"	"			
35	"	39	"	35	39	"	"	"			
37	"	41	"	37	41	"	"	"			
38	"	42	"	38	42	"	"	"			
40	"	44	"	40	44	"	"	"			

注：本公司可以按客户需求，生产非标产品。Note: we can produce as per your drawings.

HYB-10, HYB-11, HYB-12, HYB-13, HYB-14, HYB-60
轴套 Cylindrical Bushes (内径I.D 5~ 40)



a:外径倒角 内径 $\varnothing 10$ 以上(mm)

T	1.0	1.5	2.0
a	0.5	0.8	1.0

b:内径倒角 内径 $\varnothing 10$ 以上(mm)

T	1.0	1.5	2.0
b	C0.5	C0.8	C1.0

※内径 $\varnothing 10$ 不到的内外径倒角去除毛刺程度即可

长度 L $^0_{-0.40}$								内径
12	15	20	25	30	35	40	50	$\varnothing d$
								5
								6
								7
0812	0815							8
1012	1015	1020						10
1212	1215	1220	1225					12
		1320						13
1412	1415	1420	1425					14
1512	1515	1520	1525					15
1612	1615	1620	1625					16
		1720						17
	1815	1820	1825					18
	2015	2020	2025	2030				20
	2215	2220	2225	2230				22
	2415	2420	2425	2430				24
	2515	2520	2525	2530			2550	25
	2815	2820	2825	2830				28
	3015	3020	3025	3030		3040	3050	30
		3220		3230				32
		3520		3530	3535	3540		35
		3720						37
		3820		3830		3840		38
		4020		4030		4040	4050	40

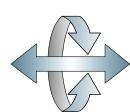


请从适用的内径、外径、长度中选择零件号
(例)内径60mm、长度50mm的情况下

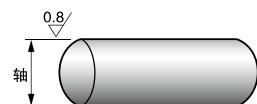
HYB-10- 6050

请指定上述零件号

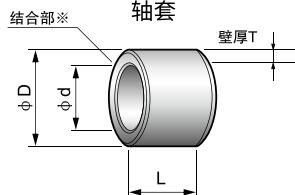
运动方向



对偶轴



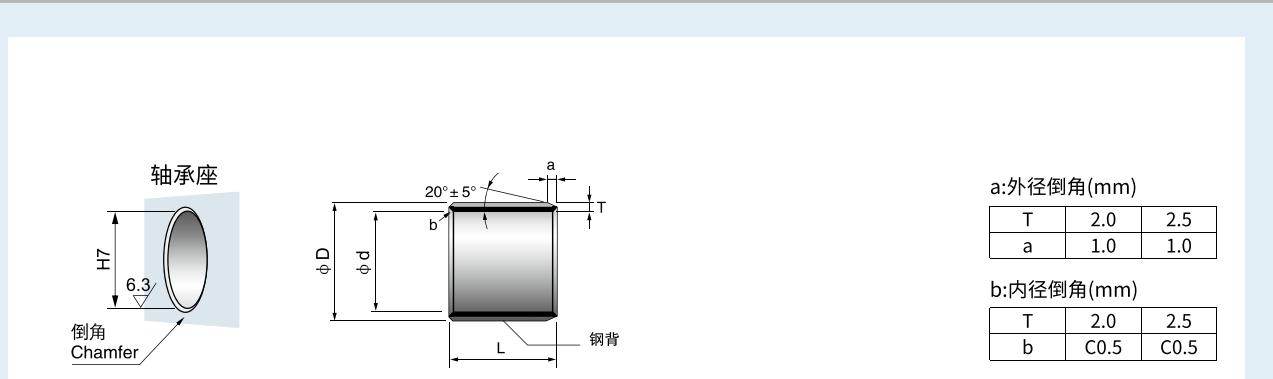
轴套



轴 shaft	座孔housing	内径	外径		壁厚		长度 L ⁰ _{-0.40}						
			$\phi H7$	ϕd	ϕD	T	20	25	30	40	50		
45	^{-0.025} _{-0.050}	50	^{+0.025} ₀	45	50	^{+0.085} _{+0.045}	2.5	^{+0.005} _{-0.040}	4520	4525	4530	4540	4550
50	"	55	^{+0.030} ₀	50	55	^{+0.100} _{+0.055}	"	"	5020		5030	5040	5050
55	^{-0.030} _{-0.060}	60	"	55	60	"	"	"			5530	5540	5550
60	"	65	"	60	65	"	"	"			6030	6040	6050
65	"	70	"	65	70	"	"	"			6530	6540	6550
70	"	75	"	70	75	"	"	"			7040	7050	
75	"	80	"	75	80	"	"	"			7530	7540	7550
80	⁰ _{-0.030}	85	^{+0.035} ₀	80	85	^{+0.120} _{+0.070}	"	^{-0.010} _{-0.060}				8040	8050
85	⁰ _{-0.035}	90	"	85	90	"	"	"				8540	
90	"	95	"	90	95	"	"	"				9040	9050
95	"	100	"	95	100	"	"	"					9550
100	"	105	"	100	105	"	"	"					10050
105	"	110	"	105	110	"	"	"					
110	"	115	"	110	115	"	"	"					
115	"	120	"	115	120	"	"	"					
120	"	125	^{+0.040} ₀	120	125	^{+0.170} _{+0.100}	"	^{-0.035} _{-0.085}					
125	⁰ _{-0.040}	130	"	125	130	"	"	"					
130	"	135	"	130	135	"	"	"					
135	"	140	"	135	140	"	"	"					
140	"	145	"	140	145	"	"	"					
150	"	155	"	150	155	"	"	"					
160	"	165	"	160	165	"	"	"					
180	"	185	^{+0.046} ₀	180	185	^{+0.210} _{+0.130}	"	"					
190	⁰ _{-0.046}	195	"	190	195	"	"	"					
200	"	205	"	200	205	"	"	"					
220	"	225	"	220	225	"	"	"					
250	"	255	^{+0.052} ₀	250	255	^{+0.260} _{+0.170}	"	"					
260	"	265	"	260	265	"	"	"					

注：本公司可以按客户需求，生产非标产品。Note: we can produce as per your drawings.

HYB-10, HYB-11, HYB-12, HYB-13, HYB-14, HYB-60
轴套 Cylindrical Bushes (内径I.D 45~ 260))



a:外径倒角(mm)

	2.0	2.5
T	1.0	1.0
a		

b:内径倒角(mm)

	2.0	2.5
T	C0.5	C0.5
b		

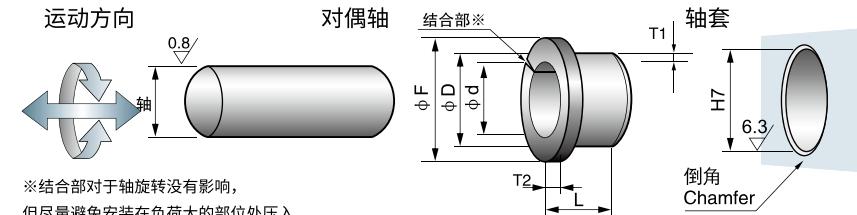
长度 L ^{0/-0.40}					内径
60	70	80	100	115	Ø d
5060					45
5560					55
6060	6070				60
6560	6570				65
7060	7070	7080			70
7560	7570	7580			75
8060	8070	8080	80100		80
8560		8580	85100		85
9060		9080	90100		90
9560		9580	95100		95
10060		10080		100115	100
10560		10580		105115	105
11060		11080		110115	110
11560		11580			115
12060		12080	120100		120
			125100		125
13060		13080	130100		130
		13580	135100		135
14060		14080	140100		140
15060		15080	150100		150
16060		16080	160100	160115	160
		18080	180100		180
		19080	190100		190
20060		20080	200100		200
		22080	220100		220
		25080	250100		250
		26080	260100		260



请从适用的内径、外径、长度中选择零件号
(例)内径20mm、长度10mm的情况下

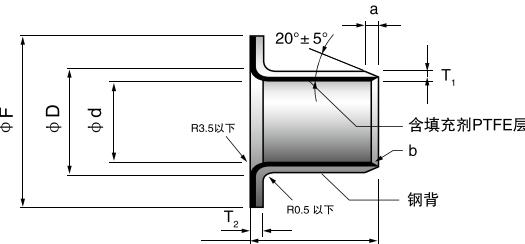
HYB-10F-2010

请指定上述零件号



轴 shaft	座孔housing		内径	外径	法兰		壁厚		长度 $L \pm 0.25$			
	H7		$\varnothing d$	$\varnothing D$	$\varnothing F \pm 0.5$	$T_2 \stackrel{0}{\pm 0.2}$	T1		3	4	5	6
5	-0.010 -0.022	7	+0.015 0	5	7	10	1.0	1.0	+0.005 -0.020		0505	0506
6	-0.013 -0.028	8	"	6	8	12	"	"	"		0605	0606
7	"	9	"	7	9	13	"	"	"		0705	
8	"	10	"	8	10	15	"	"	"			0806
9	"	11	+0.018 0	9	11	17	"	"	"			
10	"	12	"	10	12	18	"	"	"			1006
12	-0.016 -0.034	14	"	12	14	20	"	"	"			1206
13	"	15	"	13	15	21	"	"	"			
14	"	16	"	14	16	22	"	"	"			
15	"	17	"	15	17	23	"	"	"			
16	"	18	"	16	18	24	"	"	"			
18	"	20	+0.021 0	18	20	26	"	"	"			
20	-0.020 -0.041	23	"	20	23	30	1.5	1.5	+0.005 -0.025			
22	"	25	"	22	25	32	"	"	"			
24	"	27	"	24	27	34	"	"	"			
25	"	28	"	25	28	35	"	"	"			
26	"	30	"	26	30	38	2.0	2.0	+0.005 -0.030			
28	"	32	+0.025 0	28	32	40	"	"	"			
30	"	34	"	30	34	42	"	"	"			
31	-0.025 -0.050	35	"	31	35	43	"	"	"			
32	"	36	"	32	36	44	"	"	"			
35	"	39	"	35	39	47	"	"	"			
38	"	42	"	38	42	52	"	"	"			
40	"	44	"	40	44	53	"	"	"			
45	"	50	"	45	50	60	2.5	2.5	+0.005 -0.040			
50	"	55	+0.030 0	50	55	65	"	"	"			
55	-0.030 -0.060	60	"	55	60	70	"	"	"			
60	"	65	"	60	65	75	"	"	"			

注：本公司可以按客户需求，生产非标产品。Note: we can produce as per your drawings.

a:外径倒角 内径 $\varnothing 10$ 以上(mm)

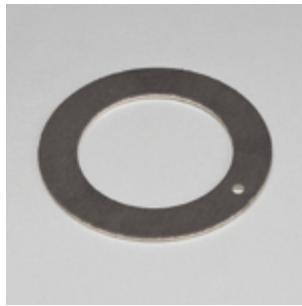
T	1.0	1.5	2.0
a	0.5	0.8	1.0

b:内径倒角 内径 $\varnothing 10$ 以上(mm)

T	1.0	1.5	2.0
b	C0.5	C0.8	C1.0

※内径 $\varnothing 10$ 不到的内外径倒角去毛刺
程度即可。

长度 L ± 0.25									内径
7	8	10	12	15	20	25	30	40	$\varnothing d$
0607	0608								5
0707									6
	0808	0810	0812						7
		0910							8
1007	1008	1010	1012	1015					9
1207	1208	1210	1212	1215					10
		1310		1315					12
		1410	1412	1415					13
		1510	1512	1515	1520				14
		1610		1615	1620				15
		1810	1812	1815	1820				16
		2010	2012	2015	2020	2025			18
		2210	2212	2215	2220				20
				2415	2420	2425			22
		2510	2512	2515	2520	2525			24
				2615	2620				25
			2812	2815	2820				26
			3012	3015	3020	3025	3030		28
						3125			30
					3220	3225	3230		31
			3512		3520	3525	3530	3540	32
					3820				35
				4012		4020	4025	4030	38
						4520	4525	4530	4540
						5020		5040	45
							5530	5540	50
							6030	6040	55
									60

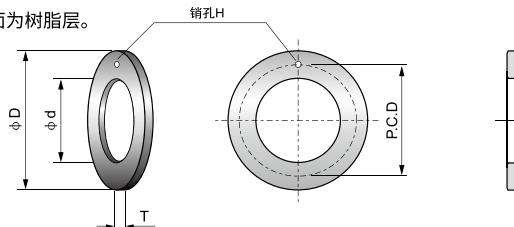


请从适用的内径、外径、厚度中选择零件号
(例)内径20mm、厚度1.5mm的情况下

HYB-10W - 2015

请指定上述零件号

●摩擦面为树脂层。



Parts No.	内径		外径		厚度		销孔	柱销位置	
	\varnothing d		\varnothing D		T	H		P.C.D	
HYB-10W-1015	10	$^{+0.25}_0$	20	$^0_{-0.25}$	1.5	$^0_{-0.05}$	1.10~1.50	15	± 0.12
HYB-10W-1215	12	"	24	"	"	"	1.625~1.875	18	"
HYB-10W-1415	14	"	26	"	"	"	2.125~2.375	20	"
HYB-10W-1615	16	"	30	"	"	"	"	22	"
HYB-10W-1815	18	"	32	"	"	"	"	25	"
HYB-10W-2015	20	"	36	"	"	"	3.125~3.375	28	"
HYB-10W-2215	22	"	38	"	"	"	"	30	"
HYB-10W-2415	24	"	42	"	"	"	"	33	"
HYB-10W-2615	26	"	44	"	"	"	"	35	"
HYB-10W-2815	28	"	48	"	"	"	4.125~4.375	38	"
HYB-10W-3215	32	"	54	"	"	"	"	43	"
HYB-10W-3815	38	"	62	"	"	"	"	50	"
HYB-10W-4215	42	"	66	"	"	"	"	54	"
HYB-10W-4820	48	"	74	"	2.0	"	"	61	"
HYB-10W-5220	52	"	78	"	"	"	"	65	"
HYB-10W-6220	62	"	90	"	"	"	"	76	"

注：本公司可以按客户需求，生产非标产品。Note: we can produce as per your drawings.

产品应用

Application

选择使用浩宇衬套的理由 Reasons of Choosing the HAOYU Bushes



固体润滑轴承是以高强度铜合金为基体，并在铜合金上开出排列有序、大小适当的空穴，再镶嵌固体润滑剂而成的轴承。

Solid lubricant bearings are produced based on the high-intensity bronze alloy with orderly arranged pores of appropriate size to contain solid lubricants.



典型应用 Typical Applications

目前已广泛运用于各种机械的滑动部位，如自动化机械设备（伸缩、摇摆、滑动、弯曲、回旋、回转部位）油压气缸导套、齿轮泵、纺织机械、自动售货机、塑胶成型机、压铸机、橡胶机械、烟草机、健身器材、办公机械、液压搬运车、汽机车、摩托车、农林机械、中酸、强碱场合，例如：化工中酸碱流量计、泵、阀，印染机械、海洋工业耐腐蚀滑动部位、各种齿轮油泵、柱塞泵、叶片泵等场合，对流体润滑或境界润滑条件下的中高压齿轮泵尤其适用。

It is widely used of slide parts of different machines, for example, automatization machine device (flex, sway, slide, bend, convolute) cylinder bushes, gear pump, textile machines, auto machines, plastic moulding machines, die-casting machines, ubber machines, tobacco machines, sports machines, OA machines, hydraulic-pressure convey car, auto cars, motorcycle, agricultural machines, middle Acid, strong acid occasion, for instance, acide & alkali flowmeter in chemical, pump, valve, printing and dyeing machines, seawater anti-corrosion lubrication parts, gear pumps, plunger, vane pumps etc., It is the best choice for the bushes in various kinds of gear pumps as well as plunger, vane pumps and so on.

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