



行业应用
APPLIED RANGE



浙江创诺汽车零部件有限公司

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企业简介

Compang Profile

浙江创诺汽车配件有限公司成立于2005年,是生产无油轴套,边缘润滑轴套,双金属轴套,青铜轴套,石墨嵌入式轴套,铸青铜轴承,特氟龙轴套,FR软带,碟形弹簧,安全垫圈,弹簧销,等零件

现在,我们提供给广泛的行业,包括汽车,农业设备,建筑业,电力变压器,阀门,石油和天然气,核能和热力发电厂,风车和涡轮机以及采矿业。

公司占地面积约18000平方米,包括:

CNC车间:生产固体润滑轴套和钢轴套,铸铜轴套。

冲压/自动化车间:专业生产边缘润滑轴套双金属轴套和垫圈。

注塑车间:生产塑料零件。

烧结车间:制作油轴套烧结板。

模具部:用于存储标准产品的模具并为新产品或特殊零件开发模具。

质保部门:控制99.9%合格率。

包装车间:检查和分拣,包装运输。

浙江创诺汽车零部件有限公司自2005年以来一直通过ISO 9001:2015认证,专注,专业,做好品质,服务客户。

未来与客户一起成长,做精做强。

Zhejiang Channov Auto Parts Co., Ltd is founded 2005 and which is a leading manufacturer in the production Oilless Bush, Marginal Lubricating Bush, Bimetal bushing, Bronze Bush, Solid Lubricant Embedded Bush, Cast bronze bearing, Teflon bushing, FR bearing, Door hinge bushing ,Belleville Springs, Disc springs, Safety Washers ,Spring pin and others parts in accordance with DIN, BS, EN (DIN/EN), SS, NS, UNS, SAE standards and Chinese GB standard.

Now we supply to a large range of industries, Spanning Automotive, Agriculture Equipments, Construction Industry, Electrical Transformers, Valves, Oil & Gas, Nuclear & Thermal Power Plants, Windmills & Turbines, and Mining.

Head office: professional customer service ,help customer to get parts good and fast.

CNC workshop: produce the Solid Lubricant Embedded Bush and speical bushes also ,steel bushes, cast bronze bushes.

Stamping/Rolling Workshop: professional produce Marginal Lubricating Bush bi-metal bushings and washers.

Injection Workshop: produce the plastic parts.

Sinter workshop: Make the Sinter Sheet for Oiles bushings.

Tools & Dies Department: for stocking the dies of standard products & developing dies for new products or special parts.

Deburring Department: Polishing&washing products.

Warehouse: for the stocking the finished products, Also stock for standard size and supply to customer in 24hours.

Raw Material Warehouse: for the preparation of production.

Test Department: to control the goods 99.9% quality.

Packing Room: Inspection and Sorting, packing for delivery .

Zhejiang Channov Auto Parts Co., Ltd? is certificated according to the ISO 9001:2015 since 2005 and experienced always.

企业目录

Enterprise Directory



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轴承材质

Bushing Material

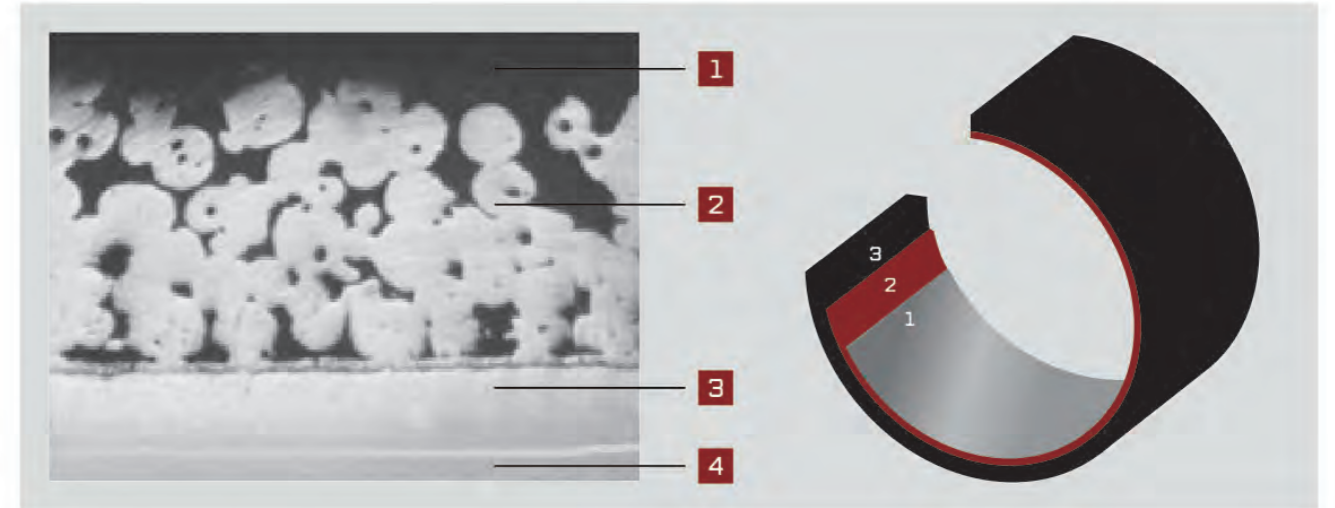


产品介绍 Brief Description

CNB是用碳钢基材、青铜粉、聚四氟乙烯、纤维等材料经过特殊工艺制造而成的自润滑产品，具有环保的特点。它不仅具有一定的化学性能，同时具有良好的物理性能和机械性能，可应用在各种机械的滑动、转动、摆动及直线往复运动部位，工作时具有自润滑、耐磨损、摩擦系数低、走合性能好、噪音低等特点。

CNB tri-layer maintenance-free bushing have a base of lower carbon steel, onto which a porous bronze layer is sintered. PTFE mixtures are impregnated into the interspace of this bronze layer after rolling process completed. It not only has good physical & mechanical properties but also has certainly chemical properties. It is suitable for rotary, oscillating movement with performance of self-lub. Anti-wear, lower friction, lower noise.

结构及工作机理 Structure



- 自润滑层,厚度为 0.01~0.03mm,是聚四氟乙希 1 Self-lub.Layer PTFE Mixture 0.01-0.03mm.烯与纤维等减摩材料的混合物,通过制板工艺进入铜粉组织内部和覆在铜层表面。作为工作面,工作中形成转移膜,可以显著地降低摩擦系数及很好的保护对磨部件。
- 青铜粉层,作为自润滑层的附着体。
- 低碳钢层,工作中起到良好的承载和散热作用。
- 镀铜/锡层,具有良好的耐腐蚀性。
- Self-lub. Layer PTFE Mixture 0.01-0.03mm.After rolling process completed,PTFE mixtures are filled in interspace of bronze.
- layer.Under normal operation,Part of PTFE mixture on top layer will be removed and transferred on the mating surface,forms a physically lubricating film,which will reduced the friction coe.and protect the mating shaft.
- Porous Bronze layer The layer provides bonded strength of Self-Lub.Layer.
- Steel Backing The layer provides load & thermal conductivity
- Copper/Tin layer

产品技术参数 Material Characteristics

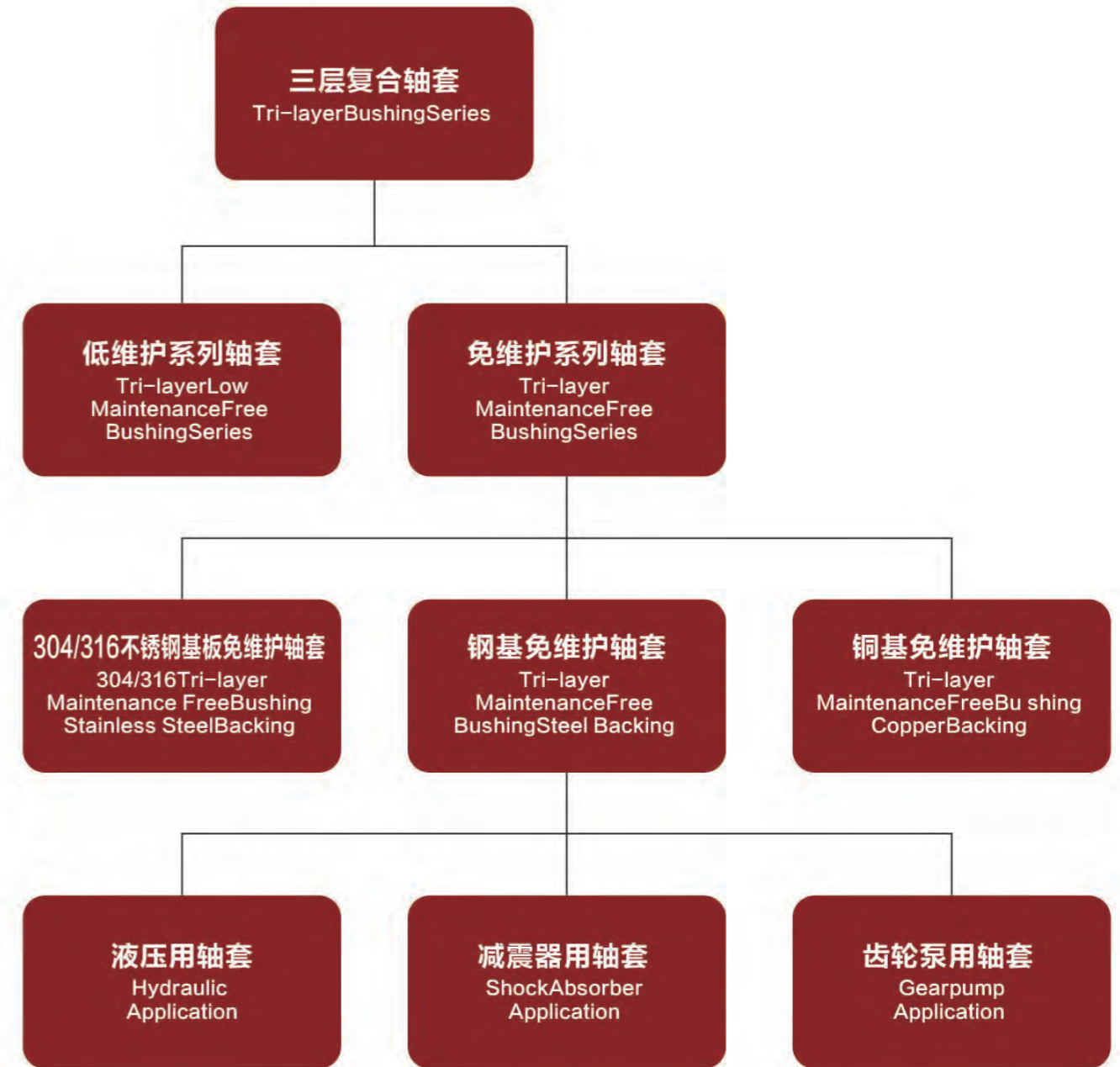
技术参数 Material Characteristics			
最大承载P	Max.Load Capacity		
静载	Static Load	N/mm ²	250
动载	Oynamic Load	N/mm ²	250
最高线速度V	Max.Speed		
干式运行	Dry Running	m/s	2.0
液体运行	HydrodynamicOperation	m/s	>2
最高PV值(干摩擦)	Max.PV Value		
短期	Short-Term Operation	N/mm ² .m/s	3.6
连续	Continuous Operation	N/mm ² .m/s	1.8
摩擦系数	Coefficient of Friction	μ	0.03-0.25
使用温度	Operation Temperature Range	°C	-195~28
导热系数	Thermal ConductivityW	(m·k)	42
热膨胀系数	Coefficient of Thermal Expansion	λ	511·10K ⁻¹

耐化学性能 Material Chemical Characteristic

轴承型号 Type	淡水 Water	海水 Sea Water	空气 Air	碱溶液 Alkaline Solutions	中性溶液 Neutral Solutions	润滑油 Fuels & Lubricatis	强酸 Strong Acid	弱酸 Weak Acid
CNB-1	□	▲	□	□	★	★	▲	▲
CNB-1 G	□	▲	□	□	★	★	▲	▲
CNB-1 H	□	▲	□	□	★	★	▲	▲
CNB-1 S	□	▲	□	□	★	★	▲	▲
CNB-1 B	□	□	□	□	★	★	□	□
CNB-1 SS	□	□	□	□	★	★	□	□
CNB-2	□	□	□	□	★	★	▲	▲

★良好Good □一般Common ▲差Poor

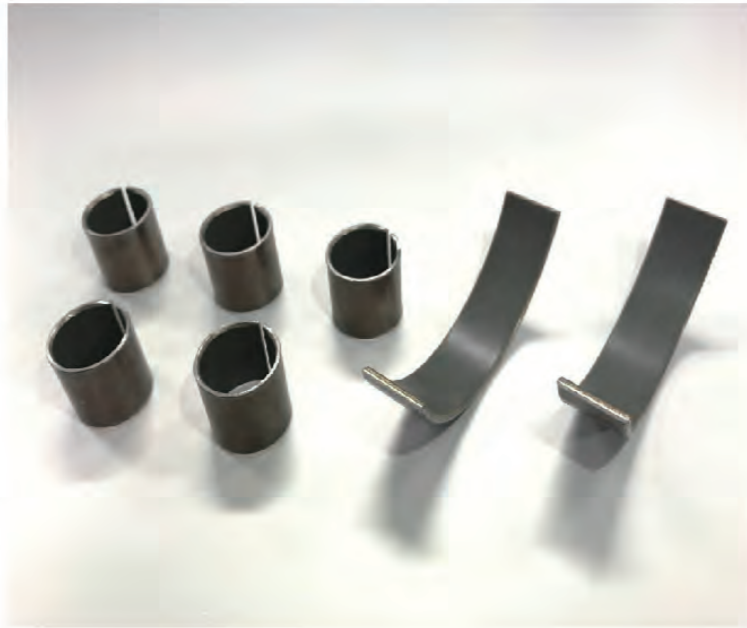
产品类别 Materiace Category



产品介绍 Brief Description

该产品以青铜丝网为基体,通过特殊工艺,表面轧制聚四氟乙烯和亲油性纤维。它具有较低的摩擦系数、较好的耐磨性以及柔软性好。产品广泛应用于纺织机械关节轴承、汽车门较链、汽车操纵杆等场合。

CNB is two-layer structure,which consists of a bronze mesh Laminated with PTFE Tape.The weight of final products is lighter and easy to install due to advantages of this structure. Automotive door hinges is one of typical applications.



产品技术参数 Material Characteristics

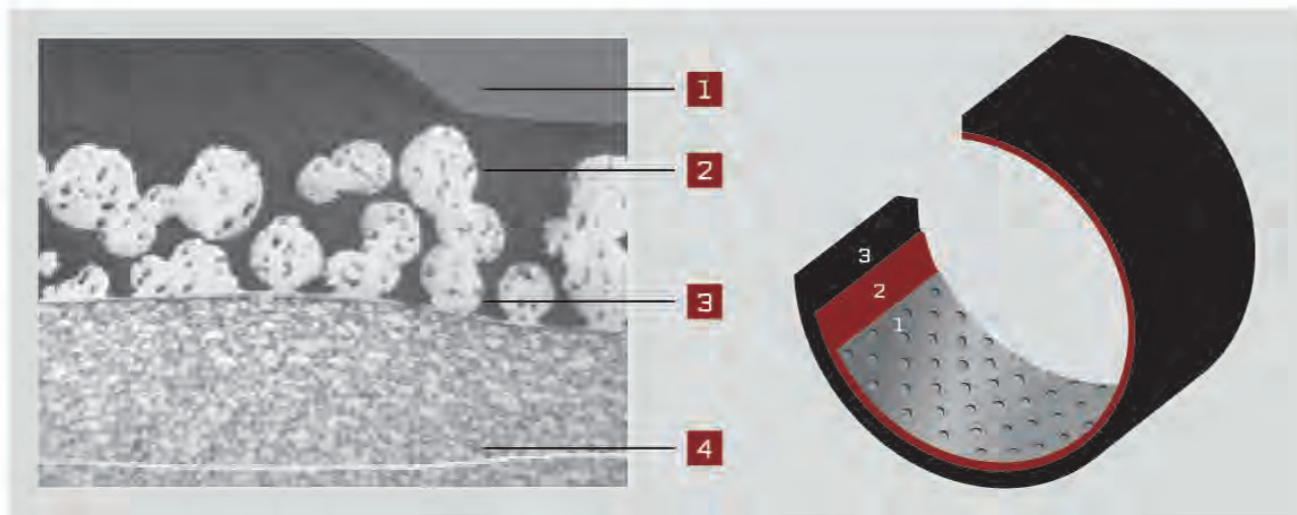
技术参数 Material Characteristics			
最大承载P	Max.Load Capacity		
静载	Static Load	N/mm ²	80
动载	Oynamic Load	N/mm ²	40
最高线速度V	Max.Speed		
干式运行	Dry Running	m/s	1
液体运行	HydrodynamicOperation	m/s	>1
摩擦系数	Coefficient of Friction	μ	0.03~0.25
使用温度	Operation Temperature Range	°C	-195~28

CNB-2 产品介绍 Brief Description



CNB-2是用碳钢基材、青铜粉、改性聚甲醛等其它润滑剂材料经过特殊工艺制造而成的边界无铅润滑剂材料具有无铅定的化学性能,同时具有良好的物理性能和机械性能,可应用在各种低速中载,取代传统轴承的滑动、转动、摆动及直线往复运动部位,因减磨层表面有储油孔便于装配前涂抹油脂,工作时具有摩擦系数低、走合性能好、耐磨损等特点。

CNB-2 tri-layer low maintainance plain bushing have a base of lower carbon steel, onto which a porous bronze layer is sintered. Acetalcopolyer (POM) is impregnated into the intersice of this bronze layer after rolling process completed. Lubrication indents are stamped into this layer. EX not only has good physical & mechanical properties, but also has certainly chemical properties. This material has good machining performance if required.



- 减摩层,厚度为0.3~0.5mm,是聚甲醛与润滑剂等减摩材料的混合物,通过制板工艺进入铜粉组织内部和覆在铜层表面。工作面表层有储油孔,可以显著地降低摩擦系数及很好的保护对磨部件。青铜粉层,作为自润滑层的附着体。
- 低碳钢层,工作中起到良好的承载和散热作用。
- 镀铜层,具有良好的耐腐蚀性。
- Self-lub. Layer POM 0.3-0.5mm. After rolling process completed, POM are filled in intersice of bronze layer, lubrication indents are stamped, which are full of oil grease, which will be removed and transferred on the mating surface, forms a physically lubricating film, which will reduced the friction coefficient and protect the mating shaft.
- Porous bronze layer; The layer provides bonded strength of self-lub. Layer.
- Steel Backing The layer provides load & thermal conductivity
- Copper/Tin layer.

技术参数 Material Characteristics			
最大承载P	Max. Load Capacity		
静载	Static Load	N/mm ²	250
动载	Dynamic Load	N/mm ²	250
最高线速度V	Max. Speed		
预润滑	Pre-Lubricated	m/s	2.0
油脂润滑连续	Oil Grease Lubricated Continuous Operation	m/s	>2
最高PV值(干摩擦)	Max. PV Value	N/mm ² .m/s	2.8
摩擦系数	Coefficient of Friction	μ	0.05~0.20
使用温度	Operation Temperature Range	°C	-40~110
导热系数	Thermal Conductivity W	(m·k) ⁻¹	42
热膨胀系数	Coefficient of Thermal Expansion	λ ^{3F}	11·10K ⁻⁶

※ 推荐在装配时内孔涂润滑油脂 Initial pre-lubrication at assembly is necessary.

轴承的选型 Bushing Design

与轴承寿命有关的六个因素:

1、载荷P[N/mm]Load

载荷越大,轴承使用寿命越短;载荷波动越大,对轴承寿命的影响也越大,轴承寿命越短;无论在任何情况下,最大载荷不可超过理论最大允许负载值。载荷大小等于实际工作载荷除以轴承的投影面积,公式为 $P=F/(D*B)$ 。

2、V[m/s]与PV值

Velocity and PV Value 轴承的工作寿命取决于PV值的大小,即实际负P[N/mm]与滑动速度V[m/s]乘积, PV越小,轴承寿命越长。

3、温度Tempture

轴承的寿命也取决于轴承使用时的温度,因此在设计选型时应尽量考虑相关部件的散热特性。

4、对磨部件的表面粗糙度

Ra Roughness of Mating Surface 与轴承对磨的部件接触面粗糙度应在Ra0.2~Ra0.8之间,轴承在装配和使用的过程中不可有锐利的介质损坏轴承的工作表面。

5、对磨部件表面材料,对磨部件表面粗糙度是影响轴套使用寿命的一个因素,一般情况下某表面要求达到s0.4umka。

6、其他因素如轴承座的设计、润滑条件等。

Factors of bushing service life:

1. Operation load is an important factor for bushing service life and steady load is beneficial for it, Generally, the specific load determined by the type of loading, and should not exceed the theoretical value. Specific load obtained from operation load divided by the projected area of bushing.

2. Determine the bushing service through the PV value, $PV = P \times V$. PV value is smaller, the bushing has a longer service life.

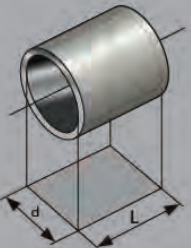



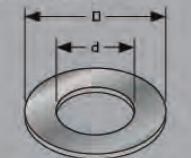


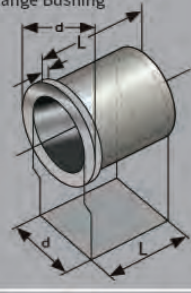
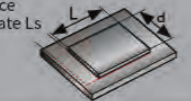
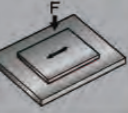
3. The ambient temperature and heat generated by different motions such as swing, rotation and reciprocating motion will affect the service life of the casing. The thermal expansion rate is high and the thermal conductivity is poor, so the size and gap of the casing must be controlled.

4. The roughness of the reinforcing surface should be Ra0.2-Ra0.8. During the installation process, its debris will obstruct the burr surface.

5. Material of Mating Surface will affect the service life of bushing. The mating surface finish should be 0.4umka.

6. Other Factors like Design of housing, Lubrication condition etc.

PV值 PV Value










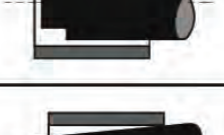


轴套 BUSHING		压力 PRESSURE,P	速度 VELOCITY,V	PV值 PV Value
		PN/mm ² {kgf/cm ² }	m/s {m/min}	N/mm ² *m/s {kgf/cm ² *m/min}
直套 Sleeve Bushing 	1. 径向单向旋转 Rotating motion in single direction of radial journal 	F dL $10^3 F$ dL	πdn 10^3 πdn 10^3	πF_n $10^3 L$ πF_n $10L$
	2. 摇摆运动 Oscillating motion 	F dL $10^3 F$ dL	dC 10^3 πdc 180×10^3	FC $10^3 L$ πFc $180 \times 10^3 L$
	3. 往复运动 Reciprocating motion 	F dL $10^3 F$ dL	$2cS$ 10^3 $2cS$ 10^3	$2FcS$ $10^3 dL$ FcS $5dL$
止推垫片 Thrust Washer 	1. 旋转 Rotating motion 	$4F$ $\pi (D^2 - d^2)$ $400F$ $\pi (D^2 - d^2)$	πDn 10^3 πDn 10^3	$4FDn$ $10^3 (D^2 - d^2)$ $4FDn$ $10(D^2 - d^2)$
	2. 摇摆运动 Oscillating motion 	$4F$ $\pi (D^2 - d^2)$ $400F$ $\pi (D^2 - d^2)$	Dc 10^3 πDc 180×10^3	$4FDC$ $10^3 \pi (D^2 - d^2)$ $4FDC$ $180 \times 10 (D^2 - d^2)$
翻边轴套 Flange Bushing 	1. 直套 Sleeve Bushings	翻边直套承载计算用上述直套承载计算公式, 但 $L=l+t$ 。 Use above formulas for sleeve bushing ($L=l+t$)	翻边直套轴速度计算用上述直套速度计算公式。 Use above formulas for sleeve bushing	翻边直套轴PV值计算用上述直套PV值计算公式。 Use above formulas for sleeve bushing
	2. 法兰面 Flange surface	翻边法兰面承载计算按上述垫片承载计算公式。 Use above formulas for thrust washer	翻边法兰面速度计算按上述垫片计算公式。 Use above formulas for thrust washer	翻边法兰面PV值计算按上述垫片PV值计算公式。 Use above formulas for thrust washer
滑块 Plate Ls 	1. 往复运动 Reciprocating motion 	F BL $10^3 F$ WL	$2cS$ 10^3 $2cS$ 10^3	$2FcS$ $10^3 BL$ FcS $5WL$

F: 承载loadN[kgf]
 N: 转速RotationsS-1(rpm)
 c: 往复圆周速度或摇摆Cylindrical velocity of reciprocatingS-1(cpm)
 or oscillating motion
 S: 往复运动距离Stroke distancem[mm]
 θ : 摇摆角度Oscillating anglerad[mm]
 d: 轴套内径Bushing I0mm[mm]
 D: 轴套外径Bushing O0mm[mm]
 L: 轴套长度Bushing lengthmm[mm]
 W: 板材或滑动宽度Stirp/Slide way withmm[mm]

轴套装配 Bushing Installation

轴套接触面设计 Bushing Arrangement Design

错误的装配形式会破坏或缩短轴承的使用寿命, 下面列出了相关的装配形式, 请在设计时参考:
 Wrong assemble will broken or reduced useful life the following assemble should be referred when design:

	错误 Error	正确 Correct
翻边套与轴肩接触形式 Flang Bushing & Shaft		
垫片与轴肩接触形式 Thrust Washer & shaft		
轴套与轴的油槽形式 Bushing & Oil grooves		
润滑油槽及油孔的形式 Oil grooves & Oil hole		
轴肩与轴套的接触面形式 Bushing & Shaft		
轴槽与轴套的接触面形式 Shaft groove & Bushing		
轴与轴套的同心度装配要求 Concentricity between Shaft & Bushing		

轴套座孔设计 Housing Design

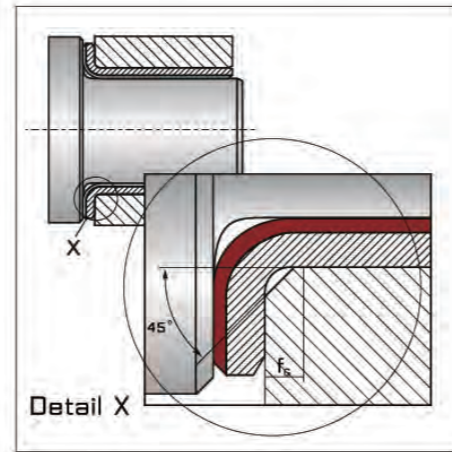
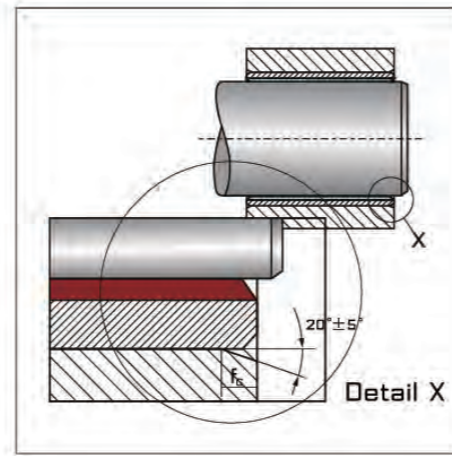
直套装配设计

为了更易于装配, 轴承的座孔均应有一个倒角, 如表。

Bushing

It's necessary there should have a chamfer on housing bore, it make bushing easier to be pressed into housing.

座孔 Housing bore diameter d_g	倒角 Chamfer with fG
$d_g \leq 30$	0.8 ± 0.3
$30 < d_g \leq 80$	1.2 ± 0.4
$80 < d_g \leq 180$	1.8 ± 0.8
$\leq 180 < d_g$	2.5 ± 1.0



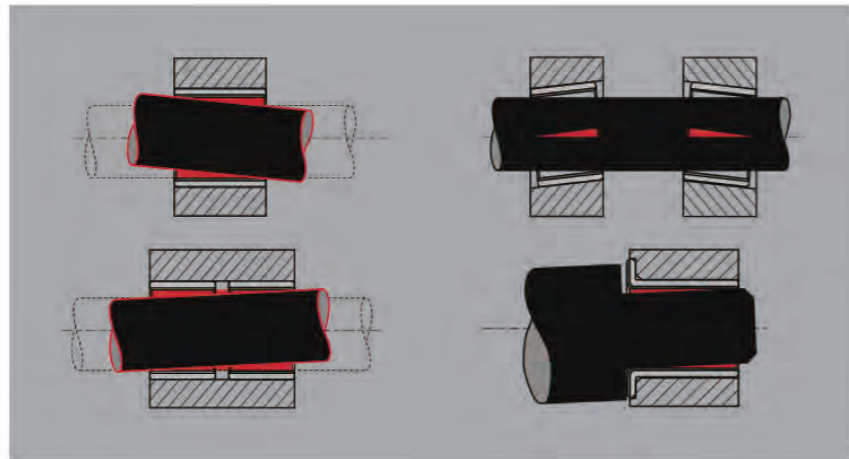
翻边套装配设计 Flange Bushing

座孔 Housing bore diameter d_g	倒角 Chamfer with fG
$d_g \leq 10$	1.2 ± 0.2
$180 < d_g$	1.7 ± 0.2

同轴度 Concentricity

精确的同轴度对所有的轴承装配都是一个重要的考虑因素。轴承在一个轴套(或两个)长度内的不同轴度或在止推垫圈直径值内的不同轴度不应该超过 0.020mm, 如图所示

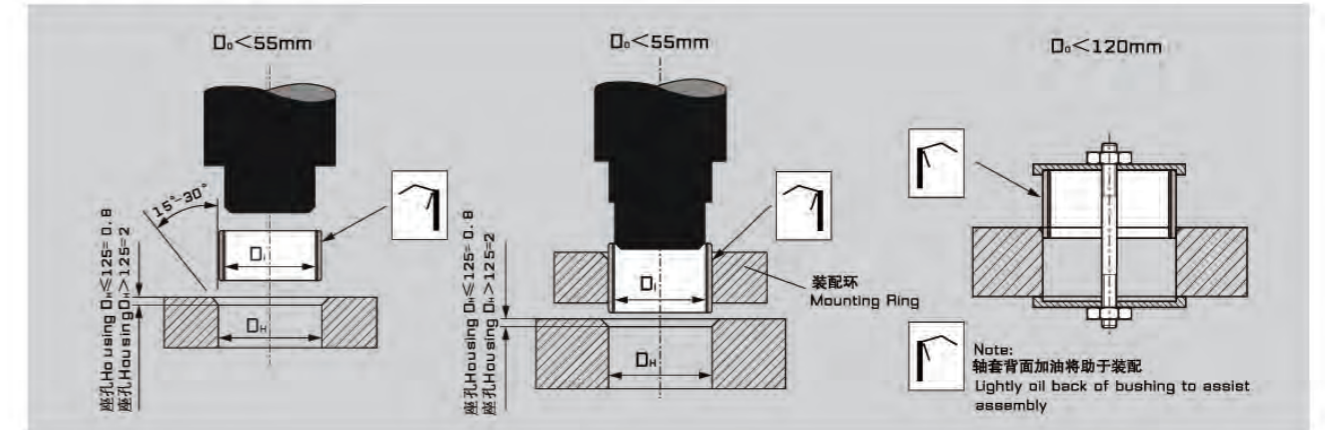
Concentricity is an important factor for bushing installation.



轴套压装 Bushing Installation

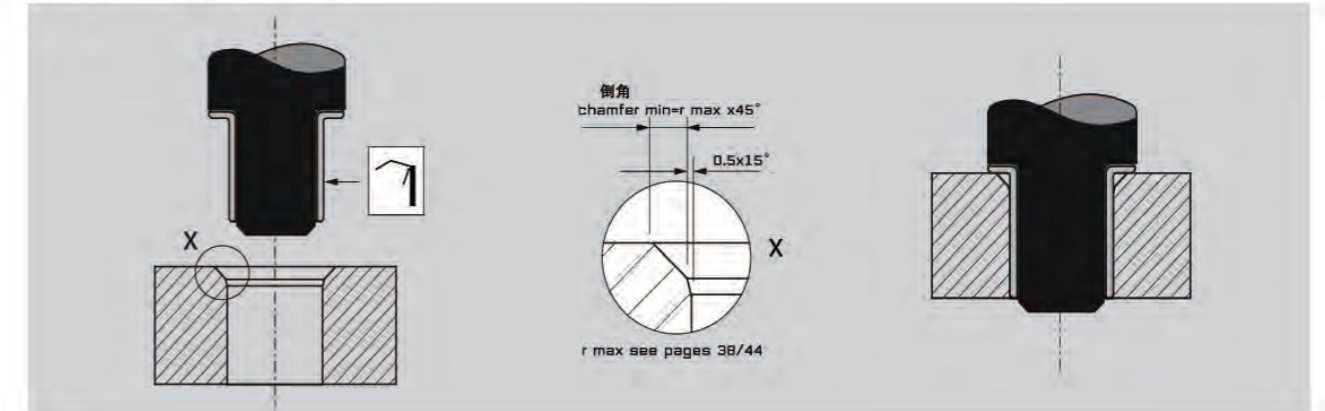
直套压装

Fitting of Cylindrical Bushing



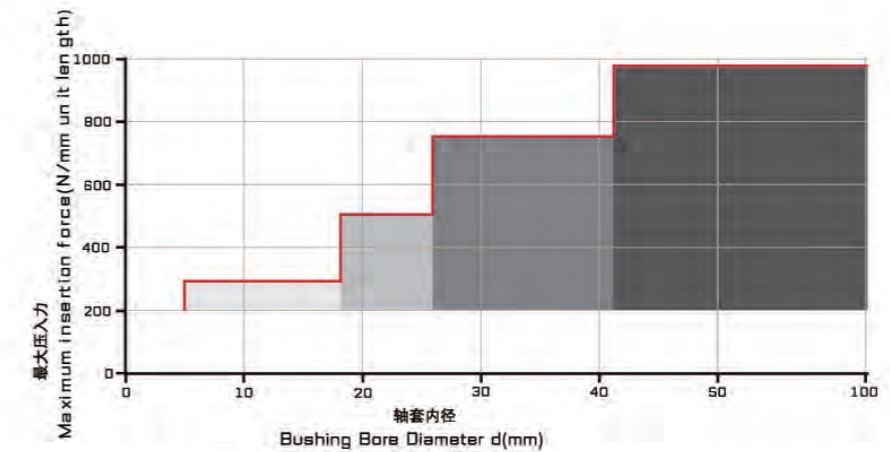
翻边轴套压装

Fitting of Flanged Bushing



压入力

Insertion Force

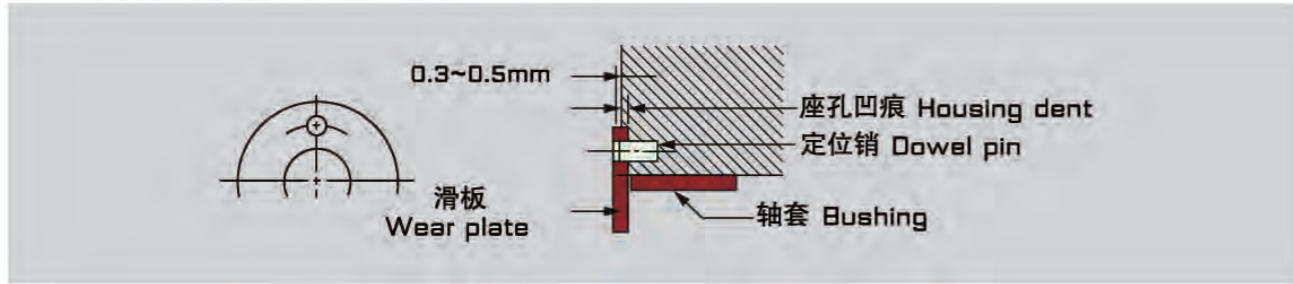


止推垫片和滑块装配 Thrust washers & Plate Installation

错误的装配形式会破坏或缩短轴承的使用寿命,下面列出了相关的装配形式,请在设计时参考:
Wrong assemble will broken or reduced useful life the following assemble should be referred when design:

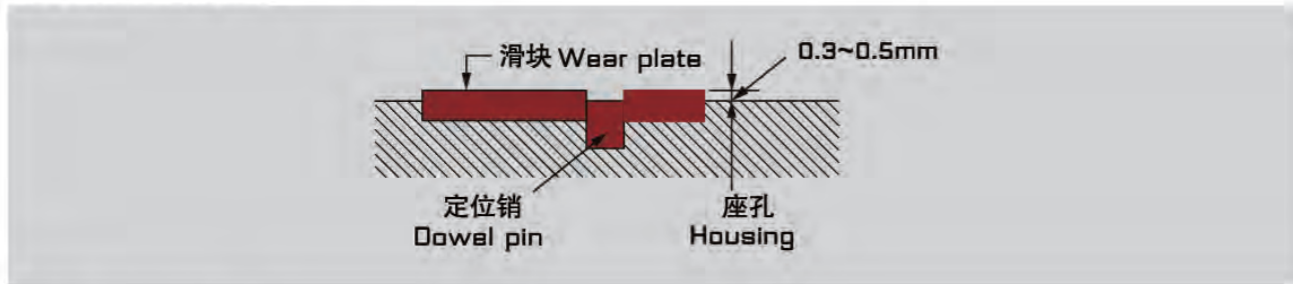
定位销应用(止推垫片)

Dowel Pin Applicatin(Thrust Washer)



滑块镶嵌装配(滑板)

Inlaid Installation(Plate)



平头螺丝应用

Flat Head Screw Application



- 安装后,垫圈的内径不能碰到旋转轴。
After install,IO of washer can not contact shaft
- 垫圈的钢背与轴承座相接触。
Backing of washer contact housing
- 定位销应比止推垫圈表面下凹0.25~0.5mm。
Dowel pin should 0.25~0.50mm lower than surface of thrust washer
- 平头螺丝应比止推垫圈表面下沉0.25~0.5mm。
Flat head screw should 0.25~0.50mm lower than surface of thrust washer

产品应用 Application

产品介绍 Brief Description

由于材料的特性和性能的结合,CNB-1产品比一般的自润轴承得到了更广泛的应用和推广。薄壁结构,体积小,重量轻,使CNB-1轴套方便使用。基于耐磨层PTFE混合物的材料特性,CNB-1产品适用于难维护的无法加油或难加油,无油润滑和少油润滑的场合。在使用过程中,PTFE混合物形成转移膜保护对磨轴从而避免咬轴现象。

PTFE混合物具有出色的耐磨性能和低摩擦系数,还有适量的弹塑性,能将应力分布在宽的接触面上,从而提高CNB-1产品的承载能力,所以CNB-1产品适用于旋转,摇摆,轴向滑动等场合。

Base on the combinations of properties & performance capabilities;CNB-1 has greater application range than other self-lubricating bearings.Thin-wall compact,lightweight, CNB bearings are economic & convenient to use.CNB's PTFE-based bushing surface permits smooth, low coefficient of friction,low wear rate operation with no lubricant,no maintenance & dry running. During operation,the transfer film created will protect the mating shaft surface. CNB bearings has great capacity of load & wild range of operation temperatures from-190 to 280, can be suitable for rotary,oscillating and axial sliding motion.

下列是有关CNB-1轴承的部分具体应用

The following list covers some of the many types of EU bearing applications.

汽车工业 Automotive

典型应用包括:油门、制动、离合器踏板、反光镜调节机构、雨刮器、玻璃窗提升机构、天窗机构、操纵杆、车门铰链车门锁、安全带张紧机构、座椅调节机构、减震器、引擎减震、化油器、行李箱、引擎盖铰链、横直拉杆及球头、节流阀、驾驶杆、转向装置、弹簧钢板等。

Typical applicaiton in this area include:accelerator linkages,brake ,clutch foot pedal, reflector control, windscreen wipers, windscreenlift system, roof window system, gear level, door hinges,door lock,seat belt system,seating system,shock absorbers, engin absorbers,carburetor, trunk & bonnet hinges,suspension ball joint,throttle valves, steering columns,steering rods, king-pin assemblies etc.

农业机械和食品机械 Agricultural Machinery/Equipments

拖拉机、联合收割机、(干草、稻草等的)打包机;压捆机、肉类加工设备、土豆收获机、喷雾机、谷物干燥机、栽种植设备、酿造设备等。

Tractors, combine harvesters, balers, meat processing equipment, potato harvesters, crop sprayers, grain dryers, planting apparatus, brewing equipment, etc.

工程机械、运输机械 Construction Equipments

挖掘机、液压升降机、混凝土搅拌机、叉式提升搬运车、液压缸、传动带张紧装置、起重机、砂浆车、托盘叉式起重车、气力升降机、推土机、自动扶梯、自动行人道、重型挂车、液体灌输设备、侧向装卸机等。

Excavator hydraulic lifts, concrete mixers, fork lift trucks, hydraulic cylinders, tensioning pulleys, crane, mortar vehicles, pallet fork lift trucks, pneumatic lifts, graders, escalators, moving walkways, heavy-duty trailers, Liquid filling equipment, side loader roller assemblies, power take-off units etc.

家用电器、商业电器、医院设备 Home Appliances, Hospital Equipments

空调、吸尘器、洗碗机、缝纫机、洗衣机、冰箱、复印机、打印机、扫描仪、邮件处理系统、信件分类装置、牙科设备、X射线设备、手术台等。

Air conditioners, cleaners, dish-washing machine, sewing machines, clothes washing machines, refrigerator, copy machines, automatic, print machines, scanner, mail processing machinery, mail sorters, dental equipment, x-ray equipment operating table etc.

液压行业 Hydraulics

油泵、活塞泵、球阀、蝶阀、混合阀、控制、往复式空压机、液压制动器、离心式压缩机、液压油缸等。

Gear pump, water pump, piston pump, ball valves, butterfly valves, mixing valves, pilot valve, reciprocating air compressors, hydraulic actuators, centrifugal compressors, hydraulic cylinder etc.

其它应用 Other Applications

车、摩托车、蒸纱机、往复锯、割绒机、纺织机、编织机、纽扣机、包装系统、钉装机械设备、玻璃制造设备等。

Bike, motorcycle, hand tools, yarn and wool machinery, reciprocating saws, cutting machines, spinning machines, knitting machines, button machines, packaging system, bookbinding equipment, glass manufacturing equipments etc.

产品应用 Application

产品介绍 Brief Description

CNB-2轴套通常被推荐用于间断运行和边界润滑的环境中,特别是轴套内孔的油穴设计,很好的适用于不能连续不断或重复加油的场合,但在无润滑条件下,CNB-2轴套的工作长短取决于承载,表面速度,具体的环境温度等的相互作用。同时,轴套内表面的塑料层可以在加工成型前留有余量,在装入座孔后可加工到更好的装配尺寸。

CNB2 bushings have been recommended for application involving intermittent operation or boundary lubrication. Base on the unique lubrication-retaining pockets on surface, CNB2 bushings are well suitable for application, where lubricant can not be supplied continuously or repeated. Under the no lubrication, the CNB2 operating life depends on interaction of the specific load, surface velocity and temperature etc. CNB2 bushings can be supplied as machining allowance on POM, it can be machined to better assembly dimensions after installed into housing.

下列是有关CNB2轴承的部分具体应用

The following list covers some of the many types of CNB2 bushing applications.

汽车工业 Automotive

Automotive悬挂系统,悬挂接头,大王销主件,汽车驱动联合铰链,转向及连杆机构,转向及关节接头,后部底盘铰链等。

Suspension system, suspension joints, king-pin assemblies, automobile driving joint hinges, steering and other linkages, steering and articulation joints, rear chassis hinges etc.

农业机械 Agricultural Machinery/Equipments

齿轮箱、离合器、收割机主销轴承、前桥支点轴承、转向托辊轴承箱、拖拉机的配件中的起重齿轮、播种设备等。

Gearbox, clutch, kingpin bearings for harvesters, front axle pivot bearings, steering idler box bearings, seeding equipment, etc.

机床制造工业 Machine Tool Building Industry

磨床、铁床、钻机主轴、精密磨床的偏心驱动单元等。

Grinding machines, milling machines, spindles in drill eccentric drive unit in precision grinding machines etc

其它应用 Other Applications

油齿轮泵、旋转器支持轴承、液压泵变量斜盘耳轴轴承、液压缸和气动缸活塞杆导承、叉车变速箱、起重机变速箱和传输托链链轮、车输送机、蜗杆传动齿轮等。

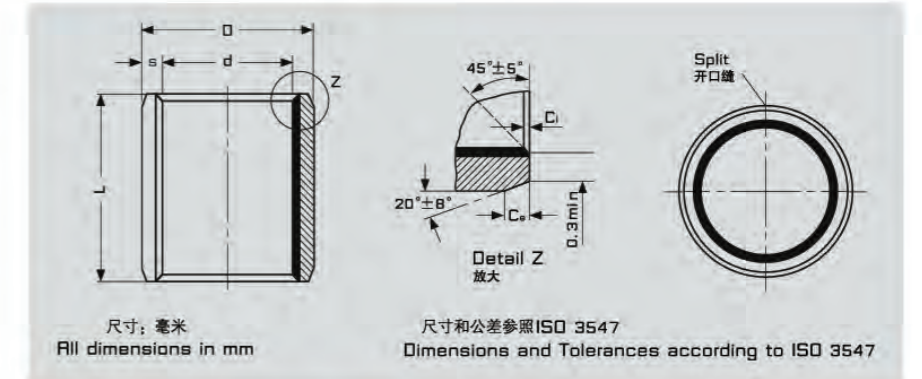
Oil gear pumps, support bearings in rotary actuators, variable swash plate trunnion bearings in hydraulic pumps, piston rod guide in hydraulic and pneumatic cylinders, Transfer gearbox for forklift trucks, gearbox and in idler chain sprockets for crane transmissions, car conveyors, worm drive gear, etc.



规格和公差

Specification & Tolerance

直套规格及公差 Sleeve Bushing Specification & Tolerance



尺寸：毫米
All dimensions in mm

尺寸和公差参照ISO 3547
Dimensions and Tolerances according to ISO 3547

内外倒角尺寸表

Inside & Outside Chamfers

壁厚 Wall thickness S	内倒角 Inside Chamfer C _i	外倒角 Outside Chamfer C _o
0.75	0.25±0.15	0.50±0.30
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±0.40	1.80±0.60

内外倒角尺寸表

Inside & Outside Chamfers

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

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes S
	内径 d	装配轴径 Shaft-Φ _s	装配后内 孔尺寸Φ _d	外径 D	装配座孔 Housing-Φ _H	理论外径公差 O.D.Φ _T		
CNB-1 0404	4	4.000	4.048	5.5	5.508	+0.055 +0.025	4	0.750 0.730
CNB-1 0406		3.992	4.000		5.500		6	
CNB-1 0410							10	
CNB-1 0505	5	4.990	5.055	7	7.015		5	
CNB-1 0508		4.978	4.990		7.000		8	
CNB-1 0510							10	
CNB-1 0604	6	5.990	6.055	8	8.015		4	1.005 0.980
CNB-1 0606		5.978	5.990		8.000		6	
CNB-1 0608							8	
CNB-1 0610							10	
CNB-1 0705	7	6.987	7.055	9	9.015		5	
CNB-1 0710		6.972	6.990		9.000		10	
CNB-1 0806							6	
CNB-1 0808	8	7.987	8.055	10	10.015		8	
CNB-1 0810		7.972	7.990		10.000		10	
CNB-1 0812							12	

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes
	内径 d	装配轴径 Shaft- Φd_s	装配后内 孔尺寸 Φd_i	外径 D	装配座孔 Housing- ΦD_H	理论外径公差 O.D. ΦD_t	ID<80L±0.25	s
							ID>80L±0.50	
CNB-1 1008	10	9.987 9.972	10.058 9.990	12	12.018 12.000		8	1.005 0.980
CNB-1 1010							10	
CNB-1 1012							12	
CNB-1 1015							15	
CNB-1 1020							20	
CNB-1 1208	12	11.984 11.966	12.058 11.990	14	14.018 14.000		8	
CNB-1 1210							10	
CNB-1 1212							12	
CNB-1 1215							15	
CNB-1 1220							20	
CNB-1 1225	25							
CNB-1 1310	13	12.984 12.966	13.058 12.990	15	15.018 15.000		10	
CNB-1 1315							15	
CNB-1 1320							20	
CNB-1 1405							5	
CNB-1 1410	14	13.984 13.966	14.058 13.990	16	16.018 16.000	+0.065 +0.030	10	
CNB-1 1412							12	
CNB-1 1415							15	
CNB-1 1420							20	
CNB-1 1425							25	
CNB-1 1510	15	14.984 14.966	15.058 14.990	17	17.018 17.000		10	
CNB-1 1512							12	
CNB-1 1515							15	
CNB-1 1520							20	
CNB-1 1525							25	
CNB-1 1610	16	15.984 15.966	16.058 15.990	18	18.018 18.000		10	
CNB-1 1612							12	
CNB-1 1615							15	
CNB-1 1620							20	
CNB-1 1625							25	
CNB-1 1810	18	17.984 17.966	18.061 17.990	20	20.021 20.000	+0.075 +0.035	10	
CNB-1 1815							15	
CNB-1 1820							20	
CNB-1 1825							25	

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes
	内径 d	装配轴径 Shaft- Φd_s	装配后内 孔尺寸 Φd_i	外径 D	装配座孔 Housing- ΦD_H	理论外径公差 O.D. ΦD_t	ID<80L±0.25	s
							ID>80L±0.50	
CNB-1 2010	20	19.980 19.959		23			10	1.505 1.475
CNB-1 2015							15	
CNB-1 2020							20	
CNB-1 2025							25	
CNB-1 2030							30	
CNB-1 2215	22	21.980 21.959		25		+0.075 +0.035	15	
CNB-1 2220							20	
CNB-1 2225							25	
CNB-1 2230							30	
CNB-1 2415							15	
CNB-1 2420	24	23.980 23.959		27			20	
CNB-1 2425							25	
CNB-1 2430							30	
CNB-1 2515	25	24.980 24.959		28			15	
CNB-1 2520							20	
CNB-1 2525							25	
CNB-1 2530							30	
CNB-1 2540							40	
CNB-1 2550	50							
CNB-1 2815	28	27.980 27.959		32			15	
CNB-1 2820							20	
CNB-1 2825							25	
CNB-1 2830							30	
CNB-1 3010							10	
CNB-1 3015	30	29.980 29.959		34		+0.085 +0.045	15	
CNB-1 3020							20	
CNB-1 3025							25	
CNB-1 3030							30	
CNB-1 3040							40	
CNB-1 3220	32	31.975 31.950		36			20	
CNB-1 3225							25	
CNB-1 3230							30	
CNB-1 3235							35	
CNB-1 3240							40	

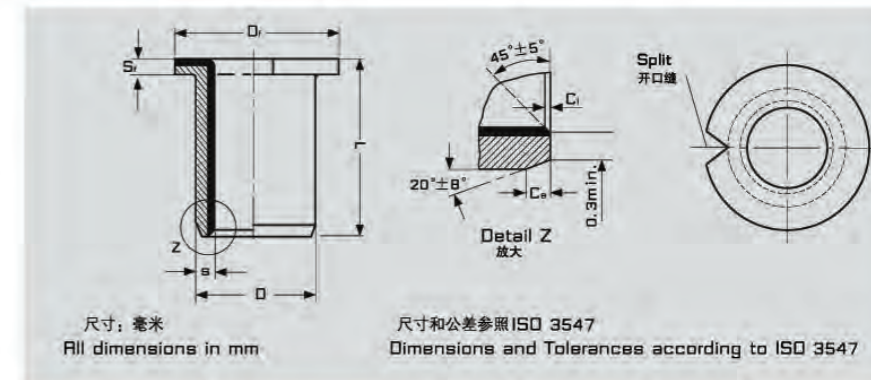
型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thickness
	内径 d	装配轴径 Shaft- Φd_s	装配后内 孔尺寸 Φd_i	外径 D	装配座孔 Housing- ΦD_H	理论外径公差 O.D. ΦD_t	ID<80L \pm 0.25	s
							ID>80L \pm 0.50	
CNB-1 3520	35	34.975 34.950	35.085 34.990	39	39.025 39.000		10	2.005 1.970
CNB-1 3530							15	
CNB-1 3540							20	
CNB-1 3540							25	
CNB-1 3550							30	
CNB-1 4012	40	39.975 39.950	40.085 39.990	44	44.025 44.000	+0.085 +0.045	15	
CNB-1 4020							20	
CNB-1 4025							25	
CNB-1 4030							30	
CNB-1 4040							15	
CNB-1 4050	20							
CNB-1 4520	45	44.975 44.950	45.105 44.950	50	50.025 50.000		25	
CNB-1 4530							30	
CNB-1 4540							15	
CNB-1 4545							20	
CNB-1 4550							25	
CNB-1 5020	50	49.975 49.950	50.110 49.990	55	55.030 55.000		30	
CNB-1 5030							40	
CNB-1 5040							50	
CNB-1 5050							15	
CNB-1 5060							20	
CNB-1 5520	55	54.970 54.940	55.110 54.990	60	60.030 60.000	+0.100 +0.055	25	
CNB-1 5525							30	
CNB-1 5530							10	
CNB-1 5540							15	
CNB-1 5550							20	
CNB-1 5555	25							
CNB-1 5560	30							
CNB-1 6020	60	59.970 59.990	60.110 59.990	65	65.030 65.000		40	
CNB-1 6030							20	
CNB-1 6040							25	
CNB-1 6050							30	
CNB-1 6060							35	
CNB-1 6070	40							

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thickness						
	内径 d	装配轴径 Shaft- Φd_s	装配后内 孔尺寸 Φd_i	外径 D	装配座孔 Housing- ΦD_H	理论外径公差 O.D. ΦD_t	ID<80L \pm 0.25	s						
							ID>80L \pm 0.50							
CNB-1 6530	65	64.970 64.940	65.110 64.990	65	70.030 70.000		30	2.505 2.460						
CNB-1 6550							50							
CNB-1 6570							70							
CNB-1 7040							70		69.970 69.940	70.110 69.990	70	75.030 75.000	+0.100 +0.055	40
CNB-1 7050														50
CNB-1 7070	70													
CNB-1 7560	75	74.970 74.940	75.110 74.990	75	80.030 80.000		60							
CNB-1 7580							80							
CNB-1 8060							80		80.000 79.946	80.155 80.020	80	85.035 85.000		60
CNB-1 8080	80													
CNB-1 80100	100													
CNB-1 8560	85	85.000 84.946	85.155 85.020	85	90.035 90.000									60
CNB-1 8580														80
CNB-1 85100							100							
CNB-1 9060	90	90.000 89.946	90.155 90.020	90	95.035 95.000		60							
CNB-1 9080							80							
CNB-1 90100							100							
CNB-1 9560	95	95.000 94.946	95.155 95.020	95	100.035 100.000	+0.120 +0.070	60							
CNB-1 9580							80							
CNB-1 95100							100							
CNB-1 10050	100	100.000 99.946	100.155 100.020	100	105.035 105.000		50							
CNB-1 10060							60							
CNB-1 10080							80							
CNB-1 100100	105	105.000 104.946	105.155 105.020	105	110.035 110.000		100							
CNB-1 10560							60							
CNB-1 10580							80							
CNB-1 105100	110	110.000 109.946	110.155 110.020	110	115.035 115.000		100							
CNB-1 11060							60							
CNB-1 11080							80							
CNB-1 110100	115	115.000 114.946	115.155 115.020	115	120.035 120.000		100							
CNB-1 11560							60							
CNB-1 11570							70							
CNB-1 12050	120	120.000 119.946	120.210 120.070	120	125.040 125.000	+0.170 +0.100	50							
CNB-1 12060							60							
CNB-1 120100							100							
CNB-1 12560	125	125.000 124.937	125.210 125.070	125	130.040 130.000		60							
CNB-1 12580							80							
CNB-1 125100							100							
CNB-1 13060	130	130.000 129.937	130.210 130.070	130	135.040 135.000		60							
CNB-1 13080							80							
CNB-1 130100							100							

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes S
	内径 d	装配轴径 Shaft- Φd_s	装配后内 孔尺寸 Φd_i	外径 D	装配座孔 Housing- ΦD_H	理论外径公差 O.D. ΦD_t		
							ID<80L±0.25	ID>80L±0.50
CNB-1 13560	135	135.000	135.210	140	140.040	+0.170	60	2.465
CNB-1 13580		134.937	135.070		140.000		80	
CNB-1 135100							100	
CNB-1 14060	140	140.000	140.210	145	145.040	+0.100	60	
CNB-1 14080		139.937	140.070		145.000		80	
CNB-1 140100							100	
CNB-1 15060	150	150.000	150.210	155	155.040	+0.130	60	
CNB-1 15080		149.937	150.070		155.000		80	
CNB-1 150100							100	
CNB-1 16080	160	160.000	160.210	165	165.040	+0.210	80	
CNB-1 160100		159.937	160.070		165.000		100	
CNB-1 18080		180	180.000		180.216		185	185.046
CNB-1 180100	159.937		180.070	185.000	100			
CNB-1 20080	200		200.000	200.216	205	205.046		+0.130
CNB-1 200100		199.928	200.070	205.000		100		
CNB-1 21080		210	210.000	210.216		215	215.046	
CNB-1 210100	209.928		220.070	205.000	100			
CNB-1 22080	220		220.000	220.216	225		225.046	+0.170
CNB-1 220100		219.928	220.070	225.000		100		
CNB-1 25080		250	250.000	250.222		255	255.052	
CNB-1 250100	249.928		250.070	255.000	100			
CNB-1 28080	280		280.000	280.222	285		285.052	+0.170
CNB-1 280100		279.948	280.070	285.000		100		
CNB-1 30080		300	300.000	300.000		305	305.052	
CNB-1 300100	299.919		300.070	305.000	100			



翻边轴套规格及公差 Flange Bushing Specification & Tolerance



内外倒角尺寸表 Inside & Outside Chamfers

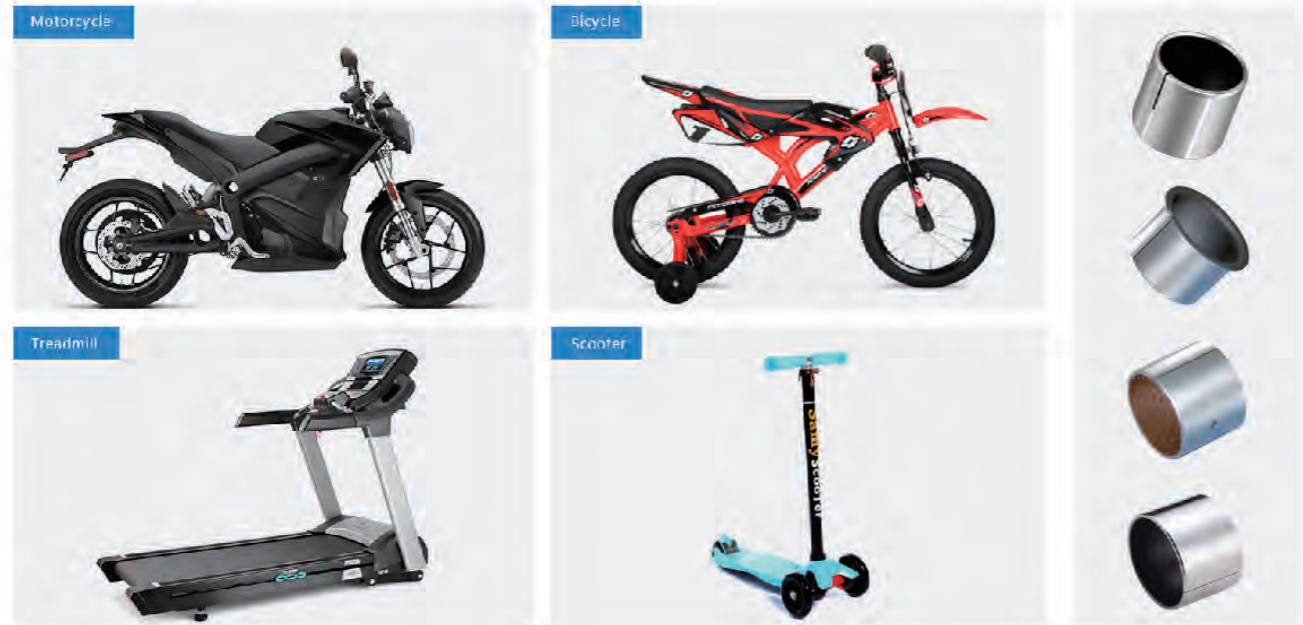
壁厚 Wall thickness S	内倒角 Inside Chamfer C _i	外倒角 Outside Chamfer C _o
0.75	0.25±0.15	0.50±0.30
1.00	0.30±0.20	0.60±0.40
1.50	0.40±0.30	0.60±0.40
2.00	0.40±0.30	1.20±0.40
2.50	0.60±0.40	1.80±0.60

内外倒角尺寸表 Inside & Outside Chamfers

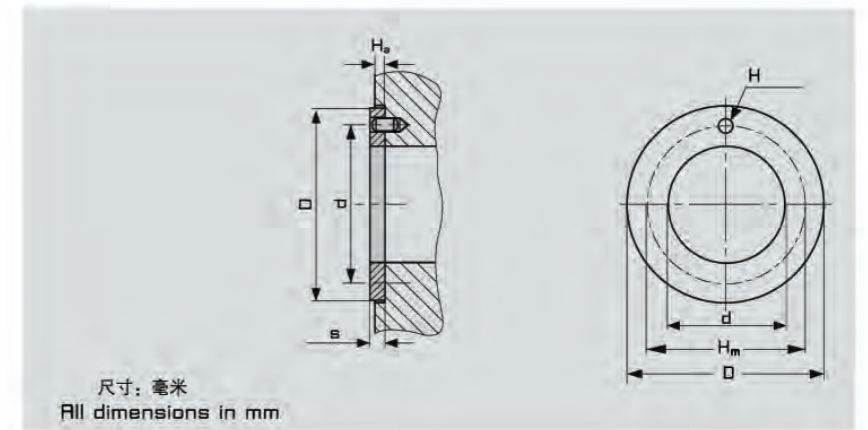
翻边套型号标注方式 Flange Bushing Symbol	CNB-□	F	× ×	× ×
轴承型号 Flange Bushing Type				
翻边套 Flange				
翻边套内径 Flange Bushing Inner Diameter				
翻边套高度 Flange Bushing Length				

型号 Part No	内径 Internal Diameter (I.D.)			外径 outside Diameter ϕd			法兰厚度 flang wall sf	法兰外径 flang ϕD_f	高度 Length	壁厚 Wall Thicknes S						
	内径 d	装配轴径 Shaft- Φd_s	供货内径 Φd_i	外径 D	装配座孔 D_H	理论外径 公差 O.D. ΦD_t	max min	max min	L± 0.01	s						
CNBF-1 06040	6	5.990	6.055	8	8.015	+0.055 +0.025	1.050 0.800	12.50	4	1.005 0.980						
CNBF-1 06080		5.978	5.990		8.000			8								
CNBF-1 08055		8	7.987		8.055			10			10.015	15.50	5.5			
CNBF-1 08075	7.972		7.990	10.000	14.50						7.5					
CNBF-1 08095					9.5											
CNBF-1 10070	10	9.987	10.058	12	12.018			+0.065 +0.030			20.50 19.50	7	9			
CNBF-1 10090		9.972	9.990		12.000							17.50		12		
CNBF-1 10120												17				
CNBF-1 10170	12	11.984	12.058	14	14.018							+0.065 +0.030		20.50 19.50	7	9
CNBF-1 12070		11.966	11.990		14.000										12	
CNBF-1 12090						17										
CNBF-1 12120				12												
CNBF-1 12170				17												

型号 Part No	内径 Nominal Diameter ϕd			外径 outside Diameter ϕd			法兰厚度 flang wall sf	法兰外径 flang ϕD_f	高度 width	壁厚 Wall Thicknes				
	内径 d	装配轴径 Shaft- ϕd_s	供货内径 ϕd_l	外径 D	装配座孔 D_H	理论外径 公差 O.D. ϕD_t	max min	max min	L \pm 0.01	s				
CNBF-1 14120	14	13.984	14.058	16	16.018	+0.065 +0.030	1.050 0.800	22.50	12	1.005 0.980				
CNBF-1 14170		13.966	13.990		16.000			21.50	17					
CNBF-1 15090	15	14.984	15.058	17	17.018			23.50	9					
CNBF-1 15120		14.966	14.990		17.000			22.50	12					
CNBF-1 15170									17					
CNBF-1 16120	16	15.984	16.058	18	18.018			24.5	12		17			
CNBF-1 16170		15.966	15.990		18.000			23.5	17					
CNBF-1 18120	18	17.984	18.061	20	20.021			1.600 1.300	26.50 25.50		12	11.5		
CNBF-1 18170		17.966	17.990		20.000						17			
CNBF-1 18220											22			
CNBF-1 20115							11.5							
CNBF-1 20165	20	19.980	20.071	23	23.021	+0.075 +0.035	21.00 1.800	30.50	16.5	1.505 1.475				
CNBF-1 20215		19.959	19.990		23.000			29.50	21.5					
CNBF-1 25115		25	24.980		30.085			28	28.021		35.50	11.5		
CNBF-1 25165	24.959		24.990	28.000	34.50				16.5					
CNBF-1 25215					21.5				11.5					
CNBF-1 30160	30	29.980	30.085	34	34.025			2.600 2.300	42.50 41.50		16	2.005 1.970		
CNBF-1 30260		29.959	29.990		34.000						26			
CNBF-1 35160	35	34.975	35.085	39	39.025						47.50		16	26
CNBF-1 35260		34.950	34.990		39.000						46.50		26	
CNBF-1 40160	40	39.975	40.085	44	44.025						+0.085 +0.045		53.50 52.50	16
CNBF-1 40260		39.950	39.990		44.000	26								
CNBF-1 45160		45	44.975		45.105	50	50.025			58.50				16
CNBF-1 45260	44.950		44.990	50.000	57.50		26							



垫片规格及公差 WThrust washer Specification & Tolerance

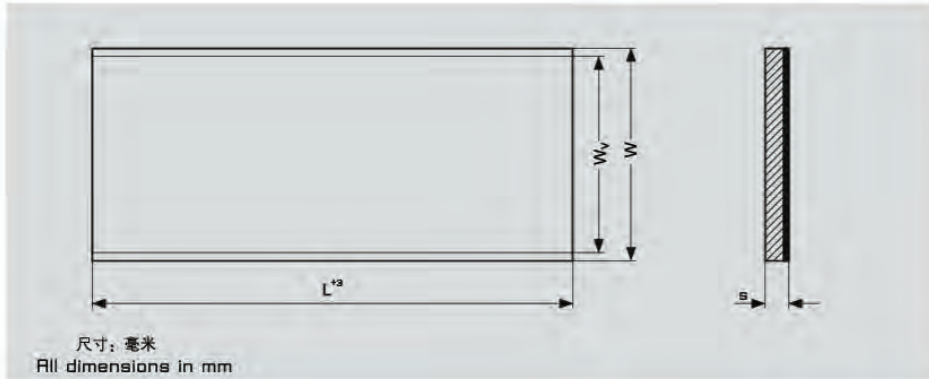


板材标注方式 Strp Symbol

垫片型号标注方式 Washer Symbol	CNB-	□	× ×
垫片 Washer			
垫片型号 Washer Type			
垫片内径 Washer I. D.			

型号 Part No	内径 Internal Diameter (I.D.)		外径 External Diameter (O.D.)		壁厚 Thickness	定位孔大小 Dowel Hole	定位孔中心距 Dowel Hole PCD	装配深度 Recess Depth
	ϕd		ϕD		s	ϕH	ϕH_m	H_2
	min	max	min	max	max. min.	max. min.	$\phi \pm 0.125$	max. min.
CNW-1 10	10.00	10.25	19.75	20.00	1.50 1.45	无孔No Hole	无孔No Hole	1.20 0.80
CNW-1 12	12.00	12.25	23.75	24.00		1.90 1.60	18	
CNW-1 14	14.00	14.25	25.75	26.00		2.40	20	
CNW-1 16	16.00	16.25	29.75	30.00		2.10	22	
CNW-1 18	18.00	18.25	31.75	32.00			25	
CNW-1 20	20.00	20.25	35.75	36.00			28	
CNW-1 22	22.00	22.25	37.75	38.00			30	
CNW-1 24	24.00	24.25	41.75	42.00			33	
CNW-1 26	26.00	26.25	43.75	44.00			35	
CNW-1 28	28.00	28.25	47.75	48.00			38	
CNW-1 32	32.00	32.25	53.75	54.00	4.40 4.10		43	
CNW-1 38	38.00	38.25	61.75	62.00			50	
CNW-1 42	42.00	42.25	65.75	66.00			54	
CNW-1 48	48.00	48.25	73.75	74.00			61	
CNW-1 52	52.00	52.25	77.75	78.00		2.00		65
CNW-1 52	52.00	52.25	77.75	78.00		1.95		65
CNW-1 62	62.00	60.25	89.75	90.00				76

板材规格及公差 CNB-1P Strip Specification

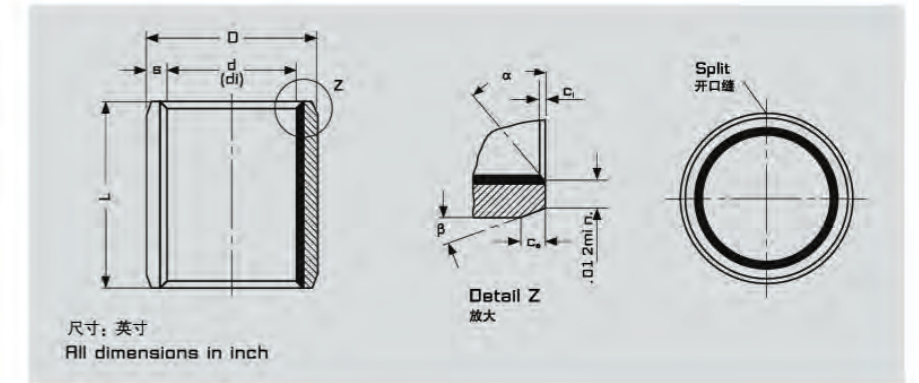


板材标注方式 Strip Symbol

板材标注方式 Strip Symbol	CNB-	□	× ×	× ×
板材 Strip				
板材型号 Strip Type				
板材厚度 Strip Wall Thickness				
板材宽度 Strip Width				

型号 Part No	长度 Length L	宽度 Total width Wv	有效宽度 Useable width Ww	壁厚 Thickness s-0.05
CNP-1 07150	500	160	150	0.75
CNP-1 10215	500	225	215	1
CNP-1 15245	500	254	245	1.5
CNP-1 20245	500	254	245	2
CNP-1 25245	500	254	245	2.5
CNP-1 30245	500	254	245	3

英制直套规格及公差 Inch Sleeve Bushing Specification & Tolerance



内外倒角尺寸表 Inside & Outside Chamfers

壁厚 Wall thickness	内倒角 ID Chamfer		外倒角 OD Chamfer	
	C _i	α	C _o	β
0.0315"	0.008" -0.024"	30° -45°	0.004" -0.012"	30° -45°
0.0471"	0.020" -0.040"	20° -30°	0.005" -0.025"	40° -55°
0.0627" -0.0928"	0.020" -0.040"	15° -25°	0.005" -0.025"	40° -50°

直套型号标注方式 Bushing Symbol

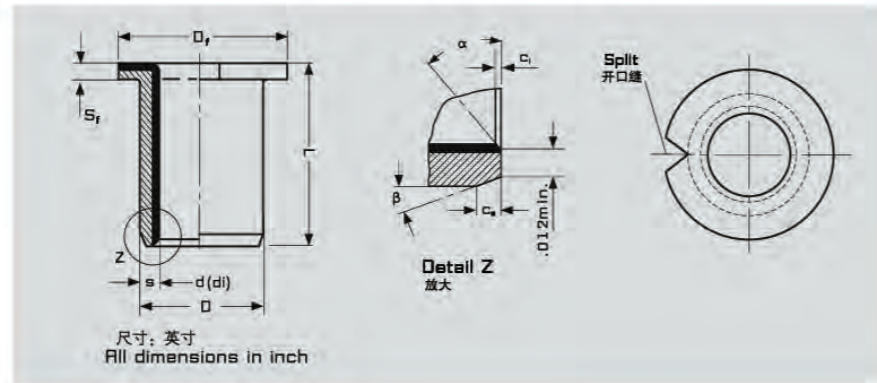
直套型号标注方式 Bushes Symbol	× ×	CNB- □	× ×
直套内径 Bushing I.D.			
直套型号 Bushing Type			
直套高度 Bushing Length			

型号 Part No	内径 Nominal Diameter φ d			外径 outside		高度 width	壁厚 Wall thickness	
	内径 d	装配轴径 Shaft-φd _s	装配后内孔 尺寸φ di	外径 D	装配座孔 DH	L±0.01	S	
CNB-1 03 03	3/16	0.1865	0.1893	1/4	0.2503	0.1875	0.0315 0.0305	
CNB-1 03 04		0.1858	0.1867		0.2497	0.25		
CNB-1 03 06						0.37		
CNB-1 04 04	1/4	0.2490	0.2518	1/3	0.3128	0.25		
CNB-1 04 06		0.2481	0.2492		0.3122	0.375		
CNB-1 05 06	5/16	0.3115	0.3143	3/8	0.3753	0.5		
CNB-1 05 08		0.3106	0.3117		0.3747	0.375		
CNB-1 06 06	3/8	0.3740	0.3769	15/32	0.4691	0.375	0.0471 0.0461	
CNB-1 06 08		0.3731	0.3742		0.4684	0.5		
CNB-1 06 12						0.75		
CNB-1 07 08		7/16	0.4365		0.4394	17/32		0.5316
CNB-1 07 12	0.4355		0.4367	0.5309	0.75			
CNB-1 08 06	1/2	0.4990 0.4980	0.5019 0.4992	19/32	0.5941	0.375		0.0471 0.0461
CNB-1 08 08					0.5934	0.5		
CNB-1 08 10						0.625		
CNB-1 08 14						0.875		

型号 Part No	内径 Nominal Diameter ϕ d			外径 outside		高度 width	壁厚 Wall thickness			
	内径 d	装配轴径 Shaft- ϕd_s	装配后内孔 尺寸 ϕdi	外径 D	装配座孔 DH	L \pm 0.01	S			
CNB-1 09 08	9/16	0.5615	0.5644	21/32	0.6566	0.5	0.0471			
CNB-1 09 12		0.5605	0.5617		0.6559	0.75				
CNB-1 10 08	5/8	0.6240	0.6270	23/32	0.7192	0.5	0.0461			
CNB-1 10 10						0.6230		0.6242	0.7184	0.625
CNB-1 10 12										0.75
CNB-1 10 14										0.875
CNB-1 12 08	3/4	0.7491	0.7525	7/8	0.8755	0.5	0.0627			
CNB-1 12 12						0.7479		0.7493	0.8747	0.75
CNB-1 12 16										1
CNB-1 14 12	7/8	0.8741	0.8775	1	1.0005	0.75	0.0615			
CNB-1 14 14						0.8729		0.743	0.9997	0.875
CNB-1 14 16										1
CNB-1 16 12										0.75
CNB-1 16 16	1	0.9991	1.0026	1	1.1256	0.75	0.0784			
CNB-1 16 16		0.9979	0.9992	1/8	1.1246	1		0.0770		
CNB-1 16 24						1.5				
CNB-1 18 12	1	1.1238	1.1278	1	1.2818	0.75				
CNB-1 18 16	1/8	1.1226	1.1240	9/32	1.2808	1	0.0941			
CNB-1 20 12						0.75				
CNB-1 20 16	1	1.2488	1.2528	1	1.46068	1				
CNB-1 20 20	1/4	1.2472	1.2490	13/32	1.4058	1.25				
CNB-1 20 28						1.75				
CNB-1 22 16						1				
CNB-1 22 22	1	1.3738	1.3778	1	1.5318	1.375				
CNB-1 22 28	3/8	1.3722	1.3740	17/32	1.5308	1.75				
CNB-1 24 16						1				
CNB-1 24 20	1	1.4988	1.5028	1	1.6568	1.25				
CNB-1 24 24	1/2	1.4972	1.4990	21/32	1.6558	1.5				
CNB-1 24 32						2				
CNB-1 26 16	1	1.6238	1.6278	1	1.7818	1				
CNB-1 26 24	5/8	1.6222	1.6240	25/32	1.7808	1.5				
CNB-1 28 16						1				
CNB-1 28 24	1	1.7487	1.7535	1	1.9381	1.5				
CNB-1 28 28	3/4	1.7471	1.7489	15/16	1.9371	1.75	0.0941			
CNB-1 28 32						2	0.0923			

型号 Part No	内径 Nominal Diameter ϕ d			外径 outside		高度 width	壁厚 Wall thickness				
	内径 d	装配轴径 Shaft- ϕd_s	装配后内孔 尺寸 ϕdi	外径 D	装配座孔 DH	L \pm 0.01	S				
CNB-1 30 16	1 7/8	1.8737	1.8787	2	2.0633	1	0.0941				
CNB-1 30 30						1.8721		1.8739	2.0621	1.875	
CNB-1 30 36										2.25	
CNB-1 32 16	2	1.9987	2.00037	2	2.1883	1	0.0923				
CNB-1 32 24						1.9969		1.9989	3/16	2.1871	1.5
CNB-1 32 32											2
CNB-1 32 40											2.5
CNB-1 36 32	2 1/4	2.2507	2.2573	2	2.4377	2	0.0928				
CNB-1 36 36						2.2489		2.2509	7/16	2.4365	2.25
CNB-1 36 40											2.5
CNB-1 36 48											3
CNB-1 40 32	2 1/2	2.5011	2.5077	2	2.6881	2	0.0902				
CNB-1 40 40						2.4993		2.5013	11/16	2.6869	2.5
CNB-1 40 48											3
CNB-1 40 56											3.5
CNB-1 44 32	2 3/4	2.7500	2.7566	2	2.9370	2	0.0928				
CNB-1 44 40						2.7482		2.7502	15/16	2.9358	2.5
CNB-1 44 48											3
CNB-1 44 56											3.5
CNB-1 48 32	3	3.0000	3.0068	3	3.1872	2.5	0.0902				
CNB-1 48 48						2.9982		3.0002	3/16	3.1858	3
CNB-1 48 60											3.75
CNB-1 56 40											2.5
CNB-1 56 48	3 1/2	3.5000	3.5068	3	3.6872	3	0.0928				
CNB-1 56 60		3.4978	3.5002	11/16	3.6858	3.75					
CNB-1 64 48						3					
CNB-1 64 60	4	4.0000	4.0068	4	4.1872	3.75					
CNB-1 64 76		3.9978	4.002	3/16	4.1858	4.75					
CNB-1 80 48	5	4.9986	5.0056	5	5.1860	3					
CNB-1 80 60		4.9961	4.9988	3/16	5.1844	3.75					
CNB-1 96 48	6	6.0000	6.0070	6	6.1874	3					
CNB-1 96 60			5.9975	6.0002	3/16	6.1858		3.75			
CNB-1 112 60	7	6.9954	7.0026	7	7.1830	3.75					
		6.9929	6.9956	1/5	7.1812						

英制翻边规格及公差 Inch Flange Bushing Specification & Tolerance



内外倒角尺寸表
Inside & Outside Chamfers

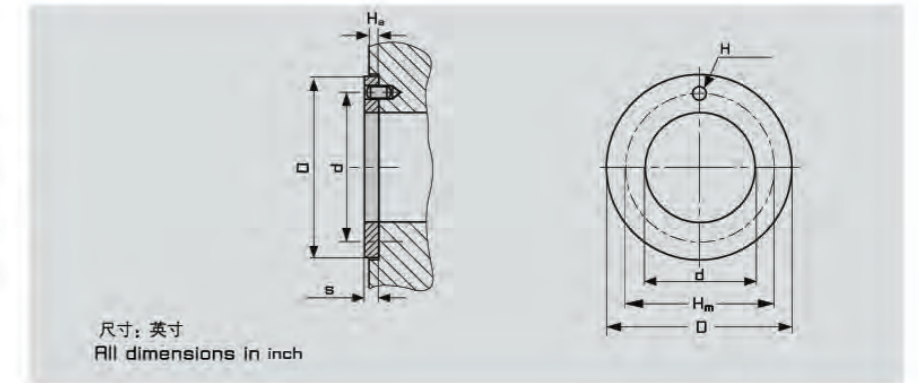
壁厚 Wall thickness	内倒角 ID Chamfer		外倒角 OD Chamfer	
	C_i	α	C_o	β
0.0315"	0.008" -0.024"	30° -45°	0.004" -0.012"	30° -45°
0.0471"	0.020" -0.040"	20° -30°	0.005" -0.025"	40° -55°
0.0627" -0.0928"	0.020" -0.040"	15° -25°	0.005" -0.025"	40° -50°

翻边套型号标注方式
Flange Bushing Symbol

翻边套型号标注方式 Flange Bushing Symbol	× ×	CNB-□	F	× ×
翻边套内径 Flange Bushing I. D.				
轴承型号 Flange Bushing Type				
翻边套 Flange				
翻边套高度 Flange Bushing Length				

型号 Part No	内径 d	装配轴径 Shaft- ϕd_s	装配座孔 尺寸 Housing ϕD_i	法兰厚度 Flang wall sf	法兰外径 Flang ϕD_f	高度 Length
						L ± 0.01
CNBF-1 06 04	3/8	0.3750 0.3740	0.4684 0.4691	0.3752 0.3779	11/16	1/4
CNBF-1 06 06						3/8
CNBF-1 06 08						1/2
CNBF-1 06 04	1/2	0.5	0.5935 0.5941	0.5002 0.5029	13/16	1/4
CNBF-1 06 06						3/8
CNBF-1 06 08						1/2
CNBF-1 06 06	5/8	0.6250 0.6240	0.7184 0.7192	0.6252 0.6280	15/16	3/8
CNBF-1 06 08						1/2
CNBF-1 06 10						5/8
CNBF-1 06 06	3/4	0.7500 0.7488	0.8747 0.8784	0.7502 0.7534	1 1/8	3/8
CNBF-1 06 08						1/2
CNBF-1 06 12						3/4
CNBF-1 06 08	7/8	0.8750 0.8738	0.9997 1.0005	0.8752 0.8784	1 1/8	1/2
CNBF-1 06 12						3/4
CNBF-1 06 16						1
CNBF-1 06 08	1	1.0000 0.9988	1.1247 1.1255	1.0002 1.0034	1 1/8	1/2
CNBF-1 06 12						3/4
CNBF-1 06 16						1

英制垫片规格及公差 Inch Thrust washer Specification & Tolerance

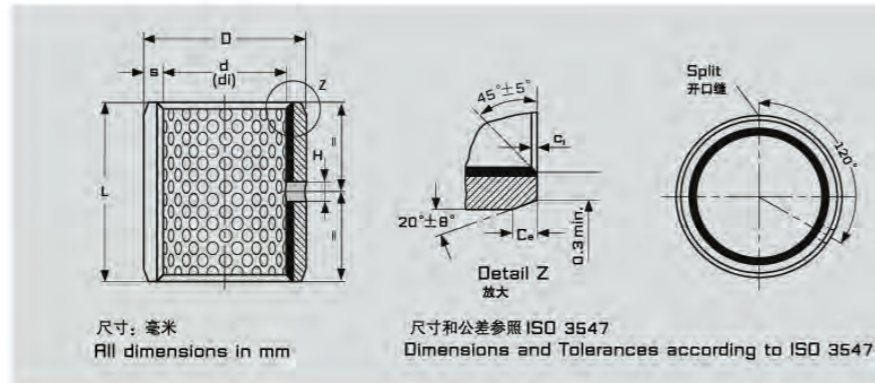


垫片型号标注方式
Washer Symbol

垫片型号标注方式 Washer Symbol	□	CNB-□	× ×
垫片 Washer			
垫片型号 Washer Type			
垫片内径 Washer I. D.			

型号 Part No	内径 Internal Diameter ϕd		外径 External Diameter D		壁厚 Wall thickness	定位孔大小 DOWEL HOLE ϕh	定位孔中心距 DOWEL HOLE PCD ϕh_m	装配深度 Deccess Depth H_a	
	min	max	min	max					max min
CNW-1 06	0.51	0.5	0.865	0.875	0.063 0.061	0.077 0.067	0.687 0.781	0.050 0.040	
CNW-1 07	0.572	0.562	0.99	1					
CNW-1 08	0.635	0.625	1.115	1.125					
CNW-1 09	0.697	0.687	1.177	1.187		0.109 0.099	0.875 0.937		
CNW-1 10	0.76	0.75	1.24	1.25					
CNW-1 11	0.822	0.812	1.365	1.375					
CNW-1 12	0.885	0.875	1.49	1.5		0.140 0.130	1.094 1.187		
CNW-1 14	1.01	1	1.74	1.75					
CNW-1 16	1.135	1.125	1.99	2					
CNW-1 18	1.26	1.25	2.115	2.125		0.171 0.161	1.562 1.687		
CNW-1 20	1.385	1.375	2.244	2.25					
CNW-1 22	1.51	1.5	2.49	2.5					
CNW-1 24	1.635	1.625	2.615	2.625		0.202 0.192	1.802 2		
CNW-1 26	1.76	1.75	2.74	2.75					
CNW-1 28	2	2	2.99	3					
CNW-1 30	2.135	2.125	3.115	3.125		0.0970 0.0935	2.125 2.25		0.080 0.070
CNW-1 32	2.26	2.25	3.24	3.25					

直套规格及公差 Sleeve Bushing Specification & Tolerance



内外倒角尺寸表
Inside & Outside Chamfers

壁厚 Wall thickness S	内倒角 Inside Chamfer C _i	外倒角 Outside Chamfer C _o
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
Bushings Symbol

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

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thickness	油孔直径 Oil Hole -φ H	
	内径 d	装配轴径 Shaft-φd _s	装配后内孔尺寸φd _i	外径 D	装配座孔 Housing-φD _H	理论外径公差 O.D.φD _t				ID<80L±0.25
										ID>80L±0.50
CNB-2 1010	10	10.000 9.978	10.108 10.040	12	12.018 12.000	+0.065 +0.030	10	9.987 9.972	3	
CNB-2 1012							12			
CNB-2 1015							15			
CNB-2 1020	12	12.000 11.973	12.108 12.040	14	14.018 14.000	+0.065 +0.030	20	9.987 9.972	4	
CNB-2 1210							10			
CNB-2 1212							12			
CNB-2 1215	14	14.000 13.973	14.108 14.040	16	16.018 16.000	+0.065 +0.030	15	9.987 9.972	4	
CNB-2 1220							20			
CNB-2 1225							25			
CNB-2 1415	15	15.000 14.973	15.108 15.040	17	17.018 17.000	+0.065 +0.030	15	9.987 9.972	4	
CNB-2 1420							20			
CNB-2 1425							25			
CNB-2 1510	15	15.000 14.973	15.108 15.040	17	17.018 17.000	+0.065 +0.030	10	9.987 9.972	3	
CNB-2 1512							12			
CNB-2 1515							15			
CNB-2 1520							20			
CNB-2 1525							25			

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thickness	油孔直径 Oil Hole -φ H	
	内径 d	装配轴径 Shaft-φd _s	装配后内孔尺寸φd _i	外径 D	装配座孔 Housing-φD _H	理论外径公差 O.D.φD _t				ID<80L±0.25
										ID>80L±0.50
CNB-2 1615	16	16.000 15.973	16.108 16.040	18	18.018 18.000	+0.065 +0.030	15	9.987 9.972	4	
CNB-2 1620							20			
CNB-2 1625							25			
CNB-2 1815	18	18.000 17.973	18.111 18.040	20	20.021 20.000	+0.075 +0.035	15	9.987 9.972	4	
CNB-2 1820							20			
CNB-2 1825							25			
CNB-2 2010	20	20.000 19.967	20.131 20.050	23	23.021 23.000	+0.075 +0.035	10	9.987 9.972	4	
CNB-2 2015							15			
CNB-2 2020							20			
CNB-2 2025	22	22.000 21.967	22.131 22.050	25	25.021 25.000	+0.075 +0.035	25	9.987 9.972	4	
CNB-2 2030							30			
CNB-2 2215							15			
CNB-2 2220	25	25.000 24.967	25.131 25.050	28	28.021 28.000	+0.085 +0.045	20	9.987 9.972	6	
CNB-2 2225							25			
CNB-2 2230							30			
CNB-2 2515	25	25.000 24.967	25.131 25.050	28	28.021 28.000	+0.085 +0.045	15	9.987 9.972	6	
CNB-2 2520							20			
CNB-2 2525							25			
CNB-2 2530	28	28.000 27.967	28.155 28.060	32	32.025 32.000	+0.085 +0.045	30	9.987 9.972	6	
CNB-2 2820							20			
CNB-2 2825							25			
CNB-2 2830	30	30.000 29.967	30.155 30.060	34	34.025 34.000	+0.085 +0.045	30	9.987 9.972	6	
CNB-2 3020							20			
CNB-2 3030							30			
CNB-2 3040	32	32.000 31.961	32.155 32.000	36	36.025 36.000	+0.085 +0.045	40	9.987 9.972	6	
CNB-2 3220							20			
CNB-2 3230							30			
CNB-2 3235	35	35.000 34.961	35.155 35.060	39	39.025 39.000	+0.085 +0.045	35	9.987 9.972	6	
CNB-2 3240							40			
CNB-2 3520							20			
CNB-2 3530	35	35.000 34.961	35.155 35.060	39	39.025 39.000	+0.085 +0.045	30	9.987 9.972	6	
CNB-2 3535							35			
CNB-2 3540							40			
CNB-2 3550	50									

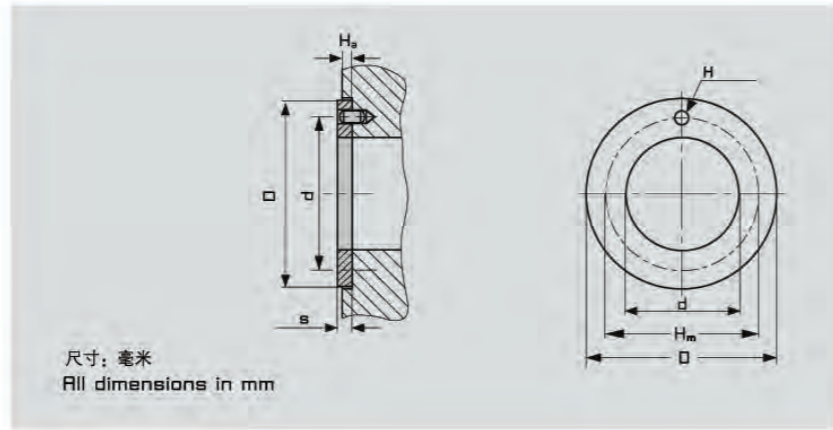
型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes	油孔直径 Oil Hole -φ H		
	内径 d	装配轴径 Shaft-φd _s	装配后内 孔尺寸φd _i	外径 D	装配座孔 Housing- φD _H	理论外径 公差 O.D.φD _t	ID<80L±0.25	s			
							ID>80L±0.50				
CNB-2 4020	40	40.000 39.961	40.155 40.060	44	44.025 44.000	+0.085 +0.045	20	1.970 1.935	8		
CNB-2 4030							30				
CNB-2 4040							40				
CNB-2 4050							50				
CNB-2 4520	45	45.000 44.961	45.195 45.080	50	50.025 50.000	+0.085 +0.045	25	2.460 2.415			
CNB-2 4530							30				
CNB-2 4540							40				
CNB-2 4545							45				
CNB-2 4550							50				
CNB-2 5040	50	50.000 49.961	50.200 50.080	55	55.030 55.000	+0.100 +0.055	40			2.450 2.384	
CNB-2 5050							50				
CNB-2 5060							60				
CNB-2 5520	55	55.000 54.954	55.200 55.080	60	60.030 60.000	+0.100 +0.055	20				2.450 2.384
CNB-2 5525							25				
CNB-2 5530							30				
CNB-2 5540							40				
CNB-2 5550							50				
CNB-2 5560	60										
CNB-2 6030	60	60.000 59.954	60.200 60.080	65	65.030 65.000	+0.100 +0.055	30				
CNB-2 6040							40				
CNB-2 6060							60				
CNB-2 6070							70				
CNB-2 6540	65	65.000 64.954	65.262 65.100	70	70.030 70.000	+0.100 +0.055	40	2.450 2.384			
CNB-2 6550							50				
CNB-2 6560							60				
CNB-2 6570	70										
CNB-2 7040	70	70.000 69.954	70.262 70.100	75	75.030 75.000	+0.100 +0.055	40		2.450 2.384		
CNB-2 7050							50				
CNB-2 7065							65				
CNB-2 7070							70				
CNB-2 7080	80										
CNB-2 7540	75	75.000 74.954	75.262 75.100	80	80.030 80.000	+0.100 +0.055	40			2.450 2.384	
CNB-2 7560							60				
CNB-2 7580							80				
CNB-2 7580							80				

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes	油孔直径 Oil Hole -φ H				
	内径 d	装配轴径 Shaft-φd _s	装配后内 孔尺寸φd _i	外径 D	装配座孔 Housing- φD _H	理论外径 公差 O.D.φD _t	ID<80L±0.25	s					
							ID>80L±0.50						
CNB-2 8040	80	80.000 79.954	80.267 80.100	85	85.035 85.000	+0.120 +0.070	40	2.450 2.384	9.5				
CNB-2 8060							60						
CNB-2 8080							80						
CNB-2 80100							100						
CNB-2 8530	85	85.000 84.946	85.267 85.100	90	90.035 90.000	+0.120 +0.070	30			2.450 2.384			
CNB-2 8540							40						
CNB-2 8560							60						
CNB-2 8580							80						
CNB-2 85100							100						
CNB-2 9040	90	90.000 89.946	90.267 90.100	95	95.035 90.000	+0.120 +0.070	40				2.450 2.384		
CNB-2 9060							60						
CNB-2 9080							80						
CNB-2 9090	90												
CNB-2 90100	100												
CNB-2 9560	95	95.000 94.946	95.267 95.100	100	100.035 100.000	+0.120 +0.070	60					2.450 2.384	
CNB-2 95100							100						
CNB-2 10050							50						
CNB-2 10060	100	100.000 99.946	100.267 100.100	105	105.035 105.000	+0.120 +0.070	60						2.450 2.384
CNB-2 10080							80						
CNB-2 10095							95						
CNB-2 100115							115						
CNB-2 10560	105	105.000 104.946	105.267 105.100	110	110.035 110.000	+0.120 +0.070	60	2.450 2.384					
CNB-2 105110							110						
CNB-2 105115							115						
CNB-2 11060	110	110.000 109.946	110.267 105.100	115	115.035 115.000	+0.120 +0.070	60		2.450 2.384				
CNB-2 110110							110						
CNB-2 110115							115						
CNB-2 11550	115	115.000 114.946	115.267 115.100	120	120.035 120.000	+0.120 +0.070	50			2.450 2.384			
CNB-2 11570							70						
CNB-2 12060							60						
CNB-2 120100	120	120.000 119.946	120.272 120.100	125	125.040 125.000	+0.170 +0.100	100				2.450 2.384		
CNB-2 120110							110						
CNB-2 12560							60						
CNB-2 125100	125	125.000 124.937	125.272 125.000	130	130.040 130.000	+0.170 +0.100	100					2.450 2.384	
CNB-2 125110							110						

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes	油孔直径 Oil Hole -φ H
	内径 d	装配轴径 Shaft-φd _s	装配后内 孔尺寸φd _i	外径 D	装配座孔 Housing- φD _H	理论外径 公差 O.D.φD _t	ID<80L±0.25	s	
							ID>80L±0.50		
CNB-2 13050	130	130.000 129.937	130.280 130.130	135	135.040 135.000		50	2.435 2.380	9.5
CNB-2 13060							60		
CNB-2 13080							80		
CNB-2 130100							100		
CNB-2 13560	135	135.000 134.937	135.280 138.130	140	140.040 140.000		60		
CNB-2 13580							80		
CNB-2 14050							50		
CNB-2 14060	140	140.000 139.937	140.280 140.130	145	145.040 145.000		60		
CNB-2 14080							80		
CNB-2 14100							100		
CNB-2 15050							50		
CNB-2 15060	150	150.000 149.937	150.280 150.130	155	155.040 155.000	+0.170 +0.100	60		
CNB-2 15080							80		
CNB-2 1501003							100		
CNB-2 16050							50		
CNB-2 16060	160	160.000 159.937	160.280 160.130	165	165.040 165.000		60	2.435 2.380	9.5
CNB-2 16080							80		
CNB-2 160100							100		
CNB-2 17050							50		
CNB-2 17060	170	170.000 169.937	170.280 170.130	175	175.040 175.000		60		
CNB-2 17080							80		
CNB-2 170100							100		
CNB-2 18050							50		
CNB-2 18060	180	180.000 179.937	180.286 180.130	185	185.046 185.000		60		
CNB-2 18080							80		
CNB-2 180100							100		
CNB-2 19050							50		
CNB-2 19060	190	190.000 189.928	190.286 190.130	195	195.046 195.000	+0.210 +0.130	60		
CNB-2 19080							80		
CNB-2 190100							100		
CNB-2 190120							120		
CNB-2 20050	200	200.000 199.928	200.286 200.130	205	205.046 205.000		50		
CNB-2 20060							60		
CNB-2 20080							80		

型号 Part No	内径 Internal Diameter (I.D.)			外径 External Diameter (O.D.)			高度 Length	壁厚 Wall Thicknes	油孔直径 Oil Hole -φ H
	内径 d	装配轴径 Shaft-φd _s	装配后内 孔尺寸φd _i	外径 D	装配座孔 Housing- φD _H	理论外径 公差 O.D.φD _t	ID<80L±0.25	s	
							ID>80L±0.50		
CNB-2 20080	200	200.00 199.928	200.286 200.130	205	205.046 205.000		80	2.435 2.380	9.5
CNB-2 200100							100		
CNB-2 200120							120		
CNB-2 22050							50		
CNB-2 22060	220	220.00 219.928	220.286 220.130	225	225.046 225.000	+0.210 +0.130	60		
CNB-2 22080							80		
CNB-2 220100							100		
CNB-2 220120							120		
CNB-2 24050	240	240.000 239.928	240.286 240.130	245	245.046 245.000		50		
CNB-2 24060							60		
CNB-2 24080							80		
CNB-2 240100							100		
CNB-2 240120	120								
CNB-2 25050	250	250.000 249.928	250.292 250.130	255	255.052 255.000		50	2.435 2.380	9.5
CNB-2 25060							60		
CNB-2 25080							80		
CNB-2 250100							100		
CNB-2 250120	120								
CNB-2 26050	260	260.000 259.919	260.292 260.130	265	265.052 265.000	+0.260 +0.170	50		
CNB-2 26060							60		
CNB-2 26080							80		
CNB-2 260100							100		
CNB-2 260120	120								
CNB-2 28050	280	280.000 279.919	280.292 280.130	285	285.052 285.000		50		
CNB-2 28060							60		
CNB-2 28080							80		
CNB-2 280100							100		
CNB-2 280120	120								
CNB-2 30050	300	300.00 299.919	300.292 300.130	305	305.052 305.000		50		
CNB-2 30060							60		
CNB-2 30080							80		
CNB-2 300100							100		
CNB-2 300120	120								

板材规格及公差 Thrust washer Specification & Tolerance

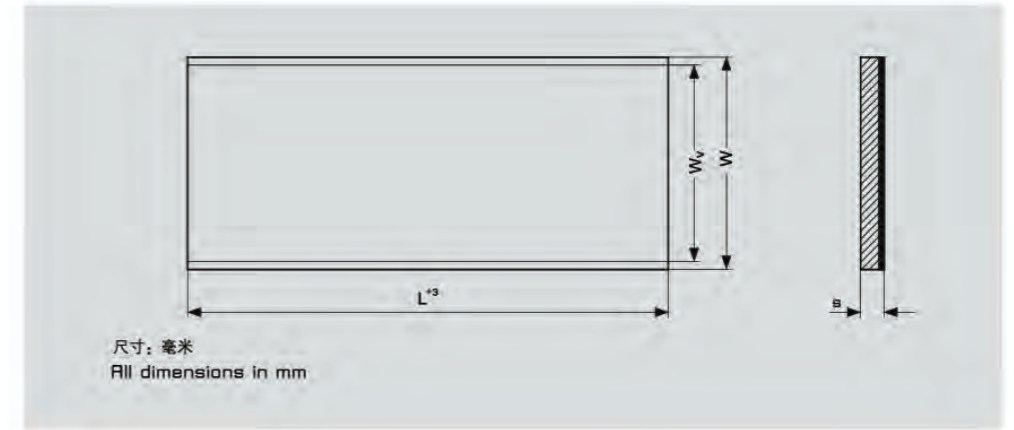


垫片型号标注方式 Washer Symbol

垫片型号标注方式 Washer Symbol	CNB	- □	× ×
垫片 Washer			
垫片型号 Washer Type			
垫片内径 Washer I. D.			

型号 Part No	内孔 Nominal Diameter φ d		外径 outside φ d		壁厚 Wall thickness max.min.	定位孔中心 DOWEL HOLE PCD φ h M ± 0.12 ± 0.005	定位孔直径 DOWEL HOLE φ h ± 0.005	Recess Depth Ha max. min.
	min	max	min	max				
CNW-2 10	12	12.25	23.75	24	1.5 1.45	18	1.9 1.6	1.20 0.80
CNW-2 12	14	14.25	25.75	26		20	1.4 2.21	
CNW-2 14	16	16.25	29.75	30		22		
CNW-2 16	18	18.25	31.75	32		25		
CNW-2 18	20	20.25	35.75	36		28	3.4 3.1	
CNW-2 20	22	22.25	37.75	38		30		
CNW-2 22	24	24.25	41.75	42		33		
CNW-2 24	26	26.25	43.75	44		35		
CNW-2 25	28	28.25	47.75	48		38	4.4 4.1	
CNW-2 30	32	32.25	53.75	54		43		
CNW-2 35	38	38.25	61.75	62	50	1.70 1.30		
CNW-2 40	42	42.25	65.75	66	54			
CNW-2 45	48	48.25	73.75	74	61			
CNW-2 50	50	52.25	77.75	78	2.00	65		

板材规格及公差 Strip Specification & Tolerance

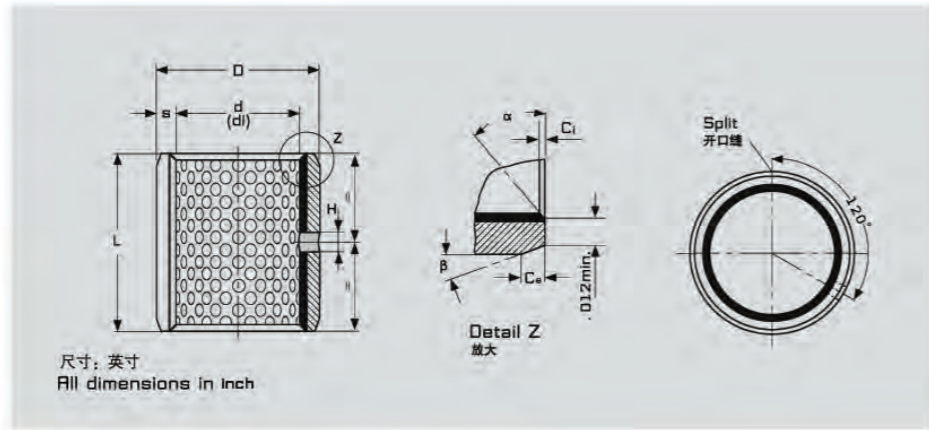
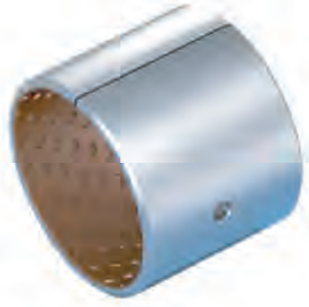


垫片型号标注方式 Washer Symbol

板材标注方式 strip symbol	CNB	S	XX	XXX
板材型号 strip type				
板材 strip				
板材厚度 strip wall thickness				
板材宽度 strip width				

型号 Prat No	长度 length L	宽度 width Wv	壁厚 thickness s-0.05
CNP-2 100 90	500	130-150	1
CNP-2 152 00		130-150	1.5
CNP-2 202 00		130-150	2
CNP-2 252 00			2.5

英制规格及公差 Inch Bushing Specification & Tolerance



内外倒角尺寸表
Inside & Outside Chamfers

壁厚 Wall thickness	内倒角 ID Chamfer		外倒角 OD Chamfer	
	C _i	α	C _o	β
0.0315"	0.008" -0.024"	30° -45°	0.004" -0.012"	30° -45°
0.0471"	0.020" -0.040"	20° -30°	0.005" -0.025"	40° -55°
0.0627" -0.0928"	0.020" -0.040"	15° -25°	0.005" -0.025"	40° -50°

直套型号标注方式
Bushes Symbol

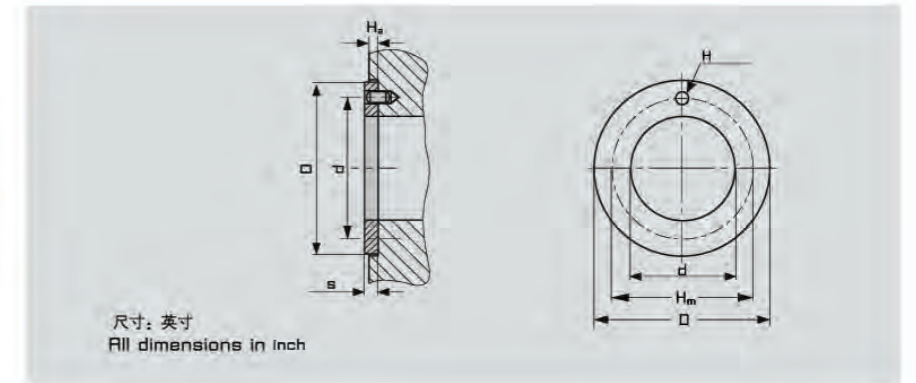
直套型号标注方式 Bushes Symbol	× ×	CNB-□	× ×
直套内径 Bushing I.D.			
直套型号 Bushing Type			
直套高度 Bushing Length			

型号 Part No	外径 outside			外径 outside		高度 width L±0.01	壁厚 Wall thickness s	油孔直径 Oil hole- φ h		
	内径 φ d	装配轴径 Shaft-φ d5	供货内径 φ di	外径 D	装配座孔 DH					
CNB-2 06 06						0.375		无孔NO hole		
CNB-2 06 08	3/8	0.3648 0.3639	0.3694 0.3667	15/32	0.4694 0.4687	0.5	0.0510 0.0500	5/32		
CNB-2 06 12						0.75				
CNB-2 07 08						0.5				
CNB-2 07 12	0.75									
CNB-2 08 06	1/2	0.4897 0.4887	0.4944 0.4917	19/32	0.5944 0.5937	0.375			0.0669 0.0657	5/32
CNB-2 08 08						0.5				
CNB-2 08 10						0.625				
CNB-2 08 14						0.875				
CNB-2 09 14						0.5				
CNB-2 09 14	0.75									
CNB-2 10 08	5/8	0.6146 0.6136	0.6195 0.6167	23/32	0.7195 0.7187	0.5	0.0669 0.0657	5/32		
CNB-2 10 10						0.625				
CNB-2 10 12						0.75				
CNB-2 10 14						0.875				
CNB-2 12 08	3/4	0.7390 0.7378	0.7444 0.7412	7/8	0.8758 0.8750	0.5			0.0669 0.0657	5/32
CNB-2 12 12						0.75				
CNB-2 12 16						1				

型号 Part No	外径 outside			外径 outside		高度 width L±0.01	壁厚 Wall thickness s	油孔直径 Oil hole- φ h				
	内径 φ d	装配轴径 Shaft-φ d5	供货内径 φ di	外径 D	装配座孔 DH							
CNB-2 14 12						0.75		无孔NO hole				
CNB-2 14 14	7/8	0.8639 0.8627	0.8694 0.8662	7/8	1.0008 1.0000	0.755	0.0510 0.0500	5/32				
CNB-2 14 16						1						
CNB-2 16 12						0.75						
CNB-2 16 16	1	0.9888 0.9876	0.9944 0.9912	1	1.1258 1.1250	1			0.0669 0.0657	5/32		
CNB-2 16 24						1.5						
CNB-2 18 12						0.75						
CNB-2 18 16	1											
CNB-2 20 12	1/8	1.1138 1.1126	1.1202 1.1164	1/8	1.2822 1.2812	1					0.0669 0.0657	5/32
CNB-2 20 16						0.75						
CNB-2 20 20						1						
CNB-2 20 28	1.25											
CNB-2 22 16	1/4	1.2387 1.2371	1.2452 1.2414	1/4	1.4072 1.4062	1.75	0.0669 0.0657	5/32				
CNB-2 22 22						1						
CNB-2 22 28						1.375						
CNB-2 24 16	1	1.3635 1.3619	1.3702 1.3664	1	1.5322 1.5312	1			0.0669 0.0657	5/32		
CNB-2 24 20						1.25						
CNB-2 24 24						1.5						
CNB-2 24 32	2											
CNB-2 26 16	1/2	1.6133 1.6117	1.6202 1.6164	1/2	1.7822 1.7812	1					0.0669 0.0657	5/32
CNB-2 26 24						1.5						
CNB-2 28 26						1						
CNB-2 28 24	3/4	1.7383 1.7367	1.7461 1.7415	3/4	1.9385 1.9375	1.5	0.0669 0.0657	5/32				
CNB-2 28 28						1.75						
CNB-2 28 32						2						
CNB-2 30 16	1	1.8632 1.8616	1.8713 1.8665	1	2.0637 2.0625	1.5			0.0669 0.0657	5/32		
CNB-2 30 30						1.875						
CNB-2 30 36						2.25						
CNB-2 32 16	7/8	1.9881 1.9863	1.9963 1.9915	7/8	2.1887 2.1875	1						
CNB-2 32 24						1.5						
CNB-2 32 32						2						
CNB-2 32 40	2.5											

型号 Part No	外径 outside			外径 outside		高度 width	壁厚 Wall thickness	油孔直径 Oil hole- Φ h	
	内径 Φ d	装配轴径 Shaft-Φ d5	供货内径 Φ di	外径 D	装配座孔 DH	L±0.01	s		
CNB-2 36 32						2.010 1.990	0.0980 0.0962	5/16	
CNB-2 36 36	2 1/4	2.2378 2.2360	2.2463 2.2415	2 7/16	2.4387 2.4375	2.260 2.240			
CNB-2 36 40						2.510 2.490			
CNB-2 40 32	2 1/2	2.4875 2.4857	2.4963 2.4915	2 2/3	2.6887 2.6875	2.010 1.990	0.0991 0.0965		
CNB-2 40 40						2.510 2.4910			
CNB-2 44 32						2.010 1.990			
CNB-2 44 40	2 3/4	2.9849 2.9831	2.7457 2.7393	2 15/16	2.9387 2.9375	2.510 2.490	0.0991 0.0965		
CNB-2 44 48						3.010 2.990			
CNB-2 44 56						3.510 3.490			
CNB-2 48 32						2.010 1.990	0.0991 0.0965		3/8
CNB-2 48 48	3	2.2378 2.2360	2.9959 2.9893	3 3/16	3.1889 3.6875	3.010 2.990			
CNB-2 48 60						3.760 3.740			
CNB-2 56 40						2.510 2.490	0.0991 0.0965		
CNB-2 56 48	3 1/2	3.4844 3.4822	3.4959 3.4893	3 11/16	3.6889 3.6875	3.010 2.990			
CNB-2 56 60						3.760 3.740			
CNB-2 64 48						3.010 2.990	0.0991 0.0965		
CNB-2 64 60	4	3.9839 3.9817	3.9959 3.9893	4 3/16	4.1889 4.1875	3.760 3.740			
CNB-2 64 76						4.760 4.740			

英制垫片规格及公差 Inch Thrust washer Specification & Tolerance



尺寸: 英寸
All dimensions in Inch

垫片型号标注方式
Washer Symbol

WC

垫片型号标注方式 Washer Symbol	□	CNB-□	× ×
垫片 Washer			
垫片型号 Washer Type			
垫片内径 Washer I. D.			

型号 Part No	外径 outside		壁厚 Wall thickness		壁厚 Wall thickness	装配孔大小 DOWEL HOLE Φ h	装配孔中心距 DOWEL HOLE PCD Φ Hm	装配深度 Decess Depth Ha
	min	max	min	max	max min	max min	±0.005	max min
CNW-2 0 6	0.5	0.51	0.865	0.875	0.0660 0.0625	0.077	0.687	0.050 0.040
CNW-2 0 7	0.562	0.572	0.99	1		0.067	0.781	
CNW-2 0 8	0.625	0.635	1.115	1.125		0.109 0.099	0.875	
CNW-2 0 9	0.687	0.697	1.177	1.187			0.937	
CNW-2 1 0	0.75	0.76	1.24	1.25			1	
CNW-2 1 1	0.812	0.822	1.365	1.375		0.140 0.130	1.094	
CNW-2 1 2	0.875	0.885	1.49	1.5			1.187	
CNW-2 1 4	1	1.01	1.74	1.75			1.375	
CNW-2 1 6	1.125	1.135	1.99	2		0.171 0.161	1.562	
CNW-2 1 8	1.25	1.26	2.115	2.125			1.687	
CNW-2 2 0	1.375	1.385	2.244	2.25			1.802	
CNW-2 2 2	1.5	1.51	2.49	2.5		0.202 0.192	2	
CNW-2 2 4	1.625	1.635	2.615	2.625	2.125			
CNW-2 2 6	1.75	1.76	2.74	2.75	2.25			
CNW-2 2 8	2	2.01	2.99	3	2.5			
CNW-2 3 0	2.125	2.135	3.115	3.125	0.0970 0.0935		2.625	0.080 0.070
CNW-2 3 2	2.25	2.26	3.24	3.25			2.75	

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	-120 -182	-80 -119	-50 -70	-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	+50 +34
30	40	-130 -192	-90 -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
40	50	-140 -214	-100 -146	-70 -106	-70 -126	-40 -71	-12 -34	-120 -174	0 -22	0 -35	0 -54	±11	±17	+25 +3	+35 +13	+45 +23	+59 +37	+72 +37	+73 +51	+93 +71
50	65	-150 -224	-110 -174	-80 -126	-80 -146	-50 -71	-14 -34	-140 -214	0 -25	0 -40	0 -63	±12.5	±20	+28 +3	+40 +15	+52 +27	+68 +43	+83 +43	+88 +63	+117 +92
65	80	-160 -244	-120 -174	-90 -146	-90 -166	-60 -71	-16 -34	-160 -244	0 -28	0 -44	0 -70	±14.5	±23	+33 +14	+46 +17	+60 +31	+79 +50	+96 +50	+109 +80	+159 +130
80	100	-170 -257	-130 -192	-100 -146	-100 -166	-70 -71	-18 -34	-180 -257	0 -31	0 -47	0 -77	±16	±26	+36 +14	+52 +20	+66 +34	+88 +56	+108 +56	+126 +94	+190 +158
100	120	-180 -267	-140 -214	-110 -166	-110 -186	-80 -71	-20 -34	-200 -267	0 -34	0 -50	0 -84	±18	±28	+40 +4	+57 +21	+73 +37	+98 +62	+119 +62	+150 +114	+224 +208
120	140	-200 -300	-150 -224	-120 -174	-120 -194	-90 -71	-22 -34	-220 -300	0 -37	0 -53	0 -91	±20	±31	+45 +5	+63 +23	+80 +40	+108 +68	+131 +68	+172 +132	+272 +252
140	160	-210 -310	-160 -234	-130 -186	-130 -206	-100 -71	-24 -34	-240 -310	0 -40	0 -56	0 -98	±21	±33	+48 +6	+70 +27	+88 +48	+118 +78	+141 +98	+186 +158	+282 +262
160	180	-230 -330	-170 -244	-140 -194	-140 -214	-110 -71	-26 -34	-260 -330	0 -43	0 -59	0 -105	±22	±35	+51 +7	+75 +30	+96 +56	+121 +81	+144 +104	+190 +162	+292 +272
180	200	-240 -355	-180 -254	-150 -206	-150 -226	-120 -71	-28 -34	-280 -355	0 -46	0 -62	0 -112	±23	±37	+54 +8	+80 +33	+104 +64	+124 +84	+147 +107	+193 +165	+297 +277
200	225	-260 -375	-190 -271	-160 -214	-160 -236	-130 -71	-30 -34	-300 -375	0 -49	0 -65	0 -119	±24	±39	+57 +9	+85 +36	+108 +68	+127 +87	+150 +110	+196 +168	+302 +282
225	250	-280 -395	-200 -286	-170 -226	-170 -246	-140 -71	-32 -34	-320 -395	0 -52	0 -68	0 -126	±25	±41	+60 +11	+90 +41	+112 +72	+130 +90	+153 +113	+201 +173	+307 +287
250	280	-300 -430	-210 -299	-180 -236	-180 -256	-150 -71	-34 -34	-340 -430	0 -55	0 -71	0 -133	±26	±43	+63 +14	+95 +44	+116 +76	+133 +93	+156 +116	+206 +178	+312 +292
280	315	-330 -460	-220 -319	-190 -246	-190 -266	-160 -71	-36 -34	-360 -460	0 -58	0 -74	0 -140	±27	±45	+66 +17	+100 +47	+120 +80	+136 +96	+161 +121	+211 +183	+317 +297
315	355	-360 -500	-230 -339	-200 -256	-200 -276	-170 -71	-38 -34	-380 -500	0 -61	0 -77	0 -147	±28	±47	+69 +19	+105 +50	+124 +84	+140 +100	+166 +126	+216 +188	+322 +302
355	400	-400 -540	-240 -359	-210 -266	-210 -286	-180 -71	-40 -34	-400 -540	0 -64	0 -80	0 -154	±29	±49	+72 +21	+110 +53	+128 +88	+145 +105	+171 +131	+221 +193	+327 +307
400	450	-440 -595	-250 -379	-220 -276	-220 -296	-190 -71	-42 -34	-440 -595	0 -67	0 -83	0 -161	±30	±51	+75 +23	+115 +56	+132 +92	+150 +110	+176 +136	+226 +198	+332 +312
450	500	-480 -635	-260 -409	-230 -286	-230 -316	-200 -71	-44 -34	-480 -635	0 -70	0 -86	0 -168	±31	±53	+78 +25	+120 +59	+136 +96	+155 +115	+181 +141	+231 +203	+337 +317

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	T7	S6
-	3	+180 +140	+180 +140	+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	+188 +140	+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	+208 +150	+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	+200 +150	+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 -32	-
14	18	+244 +160	+244 +160	+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	-
18	24	+270 +170	+270 +170	+119 +180	+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
24	30	+280 +180	+280 +180	+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 -60	-42 -72	-55 -85
30	40	+310 +190	+310 +190	+166 +110	+100 +70	+116 +70	+60 +30	+40 +10	+20 0	+30 0	+46 0	±17	+10 -25	0 -35	-10 -45	-24 -59	-38 -73	-58 -93	-78 -113
40	50	+320 +200	+320 +200	+174 +120	+107 +72	+125 +72	+71 +36	+47 +12	+22 0	+35 0	+54 0	±19	+12 -30	0 -40	-12 -52	-28 -68	-48 -90	-77 -117	-107 -147
50	65	+360 +220	+360 +220	+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
65	80	+440 +280	+440 +280	+242 +170	+146 +100	+172 +100	+96 +50	+61 +15	+29 0	+46 0	+72 0	±23	+13 -33	0 -46	-14 -46	-33 -79	-63 -109	-113 -159	-163 -209
80	100	+525 +340	+525 +340	+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 -126	-138 -190	-198 -250
100	120	+690 +480	+690 +480	+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 -144	-169 -226	-247 -304
120	140	+830 +600	+830 +600	+327 +230	+198 +135	+232 +135	+131 +68	+83 +20	+40 0	+63 0	+97 0	±31	+17 -40	0 -57	-16 -73	-41 -98	-93 -150	-187 -224	-273 -330
140	160	+910 +680	+910 +680	+337 +240	+208 +145	+242 +145	+141 +78	+83 +20	+40 0	+63 0	+97 0	±31	+17 -40	0 -57	-16 -73	-41 -98	-93 -150	-187 -224	-273 -330
160	180	+1010 +760	+1010 +760	+357 +260	+218 +155	+252 +155	+151 +88	+83 +20	+40 0	+63 0	+97 0	±31	+17 -40	0 -57	-16 -73	-41 -98	-93 -150	-187 -224	-273 -330
180	200	+1090 +840	+1090 +840	+377 +280	+228 +165	+262 +165	+161 +98	+83 +20	+40 0	+63 0	+97 0	±31	+17 -40	0 -57	-16 -73	-41 -98	-93 -150	-187 -224	-273 -330

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 and 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 gauge.Hnd 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 and 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 Pluggauge 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 Measurement

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 profession gauge at one,two,or three positions according to bushing length



L (mm)	X (mm)	Measurement position
$L \leq 15$	$L/2$	1
$15 < L \leq 50$	4	2
$50 < L \leq 90$	6 and $L/2$	3
$L < 15$	8 and $L/2$	3