



行业应用  
APPLIED RANGE



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**ZHEJIANG  
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AUTO PARTS CO.,LTD.

**浙江创诺汽车零部件有限公司**

## 轴承材质

Bushing Material

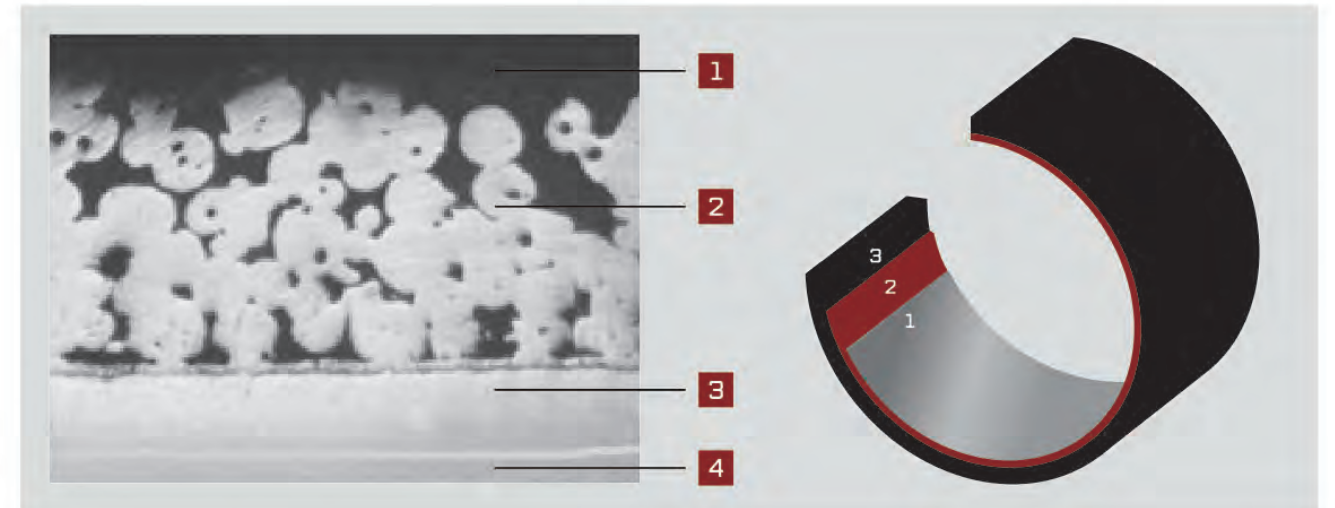


## 产品介绍 Brief Description

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 intersice of this bronze layer after rolling process completed. Eu 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 firction,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 intersice 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 firction 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

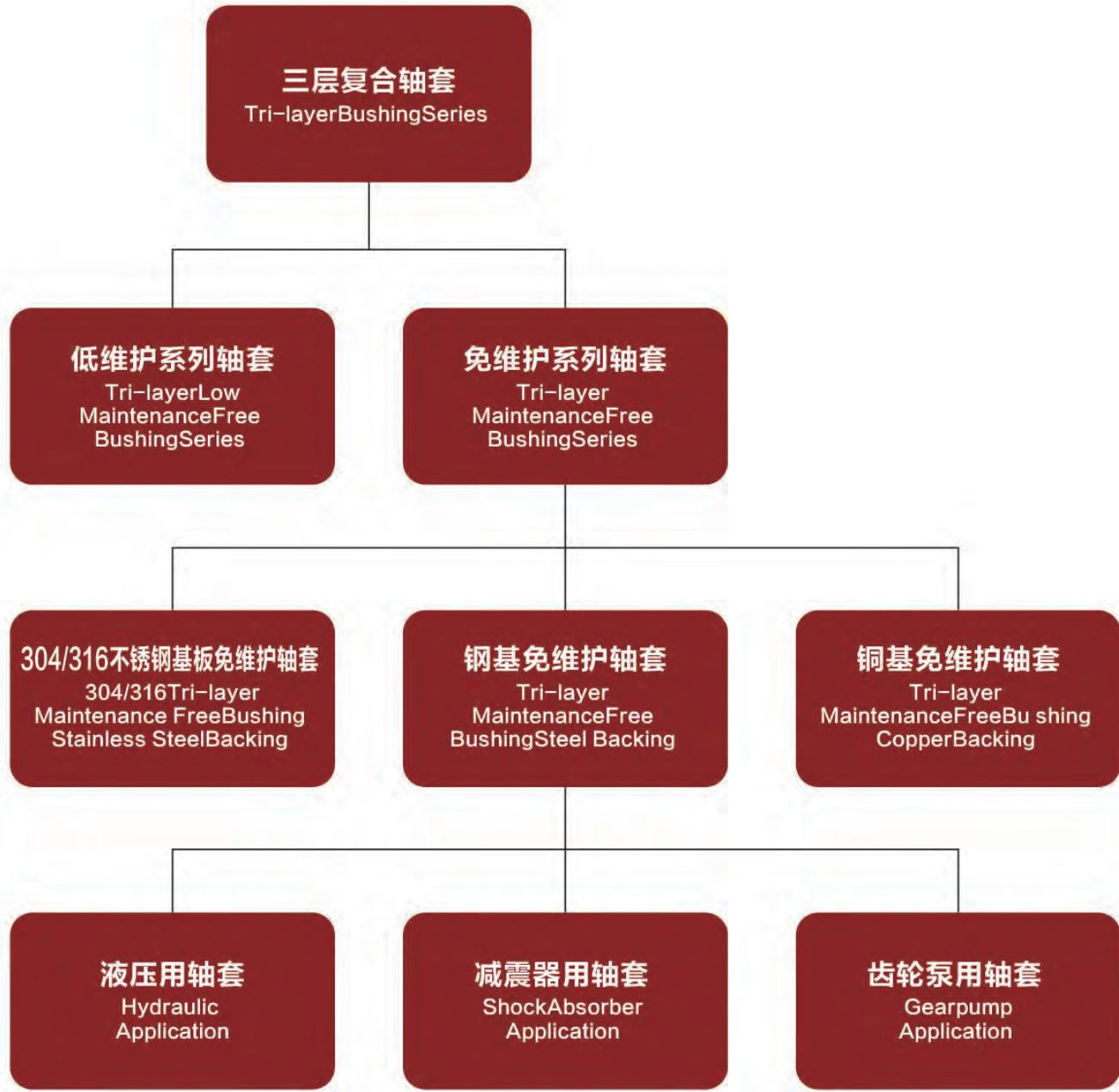
| 技术参数 Material Characteristics |                                  |           |                       |
|-------------------------------|----------------------------------|-----------|-----------------------|
| 最大承载P                         | Max.Load Capacity                |           |                       |
| 静载                            | Static Load                      | N/mm²     | 250                   |
| 动载                            | Oynamic Load                     | N/mm²     | 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/mm².m/s | 3.6                   |
| 连续                            | Continuous Operation             | N/mm².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 <sup>-1</sup> |

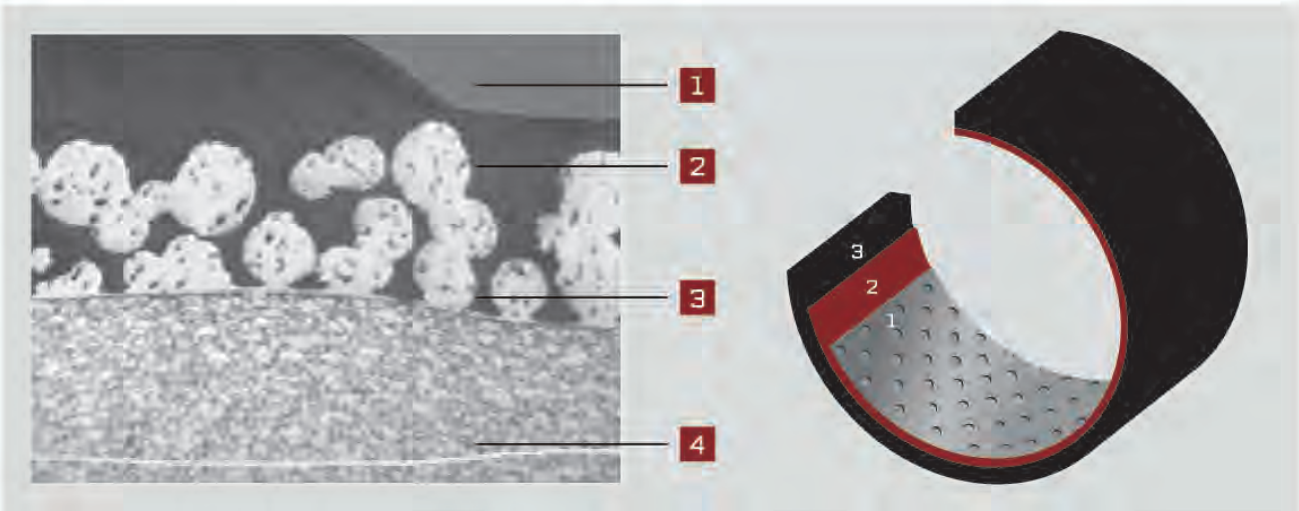
耐化学性能 Material Chemical Characteristic

| 轴承型号<br>Type | 淡水<br>Water | 海水<br>Sea Water | 空气<br>Air | 碱溶液<br>Alkaline<br>Solutions | 中性溶液<br>Neutral<br>Solutions | 润滑油<br>Fuels &<br>Lubricatis | 强酸<br>Strong Acid | 弱酸<br>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





- 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 firction.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.

| 技术参数 Materual Characteristics |                                          |           |           |
|-------------------------------|------------------------------------------|-----------|-----------|
| 最大承载P                         | Max.Load Capacity                        |           |           |
| 静载                            | Static Load                              | N/mm²     | 250       |
| 动载                            | Oynamic Load                             | N/mm²     | 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 LubricatedContinuousOperation | m/s       | >2        |
| 最高PV值(干摩擦)                    | Max.PV Value                             | N/mm².m/s | 2.8       |
| 摩擦系数                          | Coefficientof Friction                   | μ         | 0.05~0.20 |
| 使用温度                          | OperationTemperatureRange                | °C        | -40~110   |
| 导热系数                          | Thermal ConductivityW                    | (m•k)⁻¹   | 42        |
| 热膨胀系数                         | Coefficient ofThermal Expansion          | λ³F       | 11•10K⁶   |

※ 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 PVValue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

RaRoughness 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 ste adyload is beneficial for it, Generi-  
aly, the specific loaddeter minedby the type of loading, and should not exceedtheorialvalue.Specifica load  
otainedfromoperationloaddividedby theprojectedareaofbushing.

2.Determine the bushing service through the PV valve,  $PV = PxV$ . PVvalueissamller, the bushing has a longer  
service life.

3.The ambient temperature and heat generated by different motions such as swing, rotation and recipro-  
cating 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 effected serricefe of bushing themating surfacenish shoulds 0.4umka.

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

| 型号<br>Part No | 内径<br>Internal Diameter (I.D.) |                           |                    | 外径<br>External Diameter (O.D.) |                             |                           | 高度<br>Length      | 壁厚<br>Wall Thickness |  |
|---------------|--------------------------------|---------------------------|--------------------|--------------------------------|-----------------------------|---------------------------|-------------------|----------------------|--|
|               | 内径<br>d                        | 装配轴径<br>Shaft- $\Phi d_s$ | 装配后内孔尺寸 $\Phi d_i$ | 外径<br>D                        | 装配座孔<br>Housing- $\Phi D_H$ | 理论外径公差<br>O.D. $\Phi D_t$ | ID<80L $\pm 0.25$ | S                    |  |
|               |                                |                           |                    |                                |                             |                           | ID>80L $\pm 0.50$ |                      |  |
| CNB-1 13560   | 135                            | 135.000<br>134.937        | 135.210<br>135.070 | 140                            | 140.040<br>140.000          | +0.170<br>+0.100          | 60                | 2.465<br>2.415       |  |
| CNB-1 13580   |                                |                           |                    |                                |                             |                           | 80                |                      |  |
| CNB-1 135100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 14060   | 140                            | 140.000<br>139.937        | 140.210<br>140.070 | 145                            | 145.040<br>145.000          |                           | 60                |                      |  |
| CNB-1 14080   |                                |                           |                    |                                |                             |                           | 80                |                      |  |
| CNB-1 140100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 15060   | 150                            | 150.000<br>149.937        | 150.210<br>150.070 | 155                            | 155.040<br>150.000          |                           | 60                |                      |  |
| CNB-1 15080   |                                |                           |                    |                                |                             |                           | 80                |                      |  |
| CNB-1 150100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 16080   | 160                            | 160.000<br>159.937        | 160.210<br>160.070 | 165                            | 165.040<br>165.000          |                           | 80                |                      |  |
| CNB-1 160100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 18080   | 180                            | 180.000<br>159.937        | 180.216<br>180.070 | 185                            | 185.046<br>185.000          | +0.210<br>+0.130          | 80                |                      |  |
| CNB-1 180100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 20080   | 200                            | 200.000<br>199.928        | 200.216<br>200.070 | 205                            | 205.046<br>205.000          |                           | 80                |                      |  |
| CNB-1 200100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 21080   | 210                            | 210.000<br>209.928        | 210.216<br>220.070 | 215                            | 215.046<br>205.000          |                           | 80                |                      |  |
| CNB-1 210100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 22080   | 220                            | 220.000<br>219.928        | 220.216<br>220.070 | 225                            | 225.046<br>225.000          |                           | 80                |                      |  |
| CNB-1 220100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 25080   | 250                            | 250.000<br>249.928        | 250.222<br>250.070 | 255                            | 255.052<br>255.000          | +0.260<br>+0.170          | 80                |                      |  |
| CNB-1 250100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 28080   | 280                            | 280.000<br>279.948        | 280.222<br>280.070 | 285                            | 285.052<br>285.000          |                           | 80                |                      |  |
| CNB-1 280100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |
| CNB-1 30080   | 300                            | 300.000<br>299.919        | 300.000<br>300.070 | 305                            | 305.052<br>305.000          |                           | 80                |                      |  |
| CNB-1 300100  |                                |                           |                    |                                |                             |                           | 100               |                      |  |



Gear pump



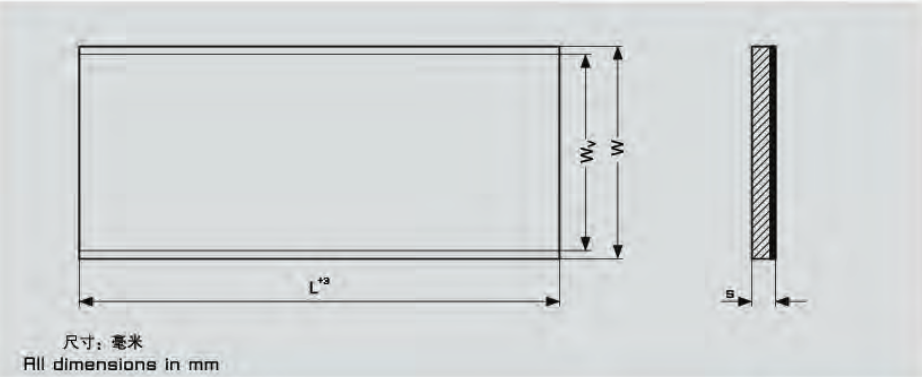
Plunger pump



Vane pump



板材规格及公差
 CNB-1P Strip Specification

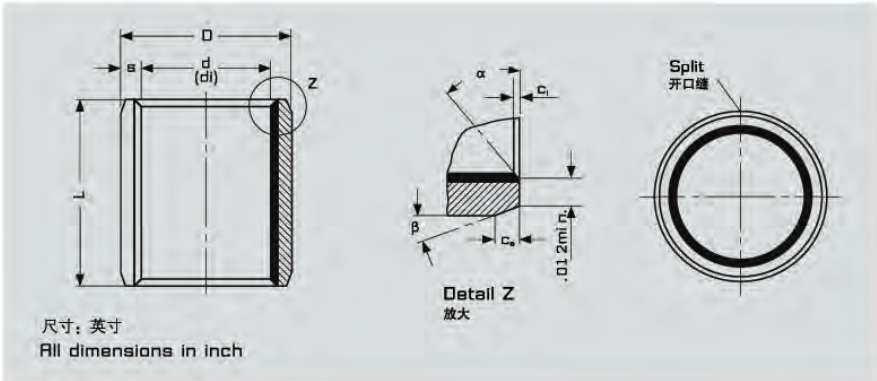


板材标注方式  
 Strp Symbol

|                           |      |  |     |     |
|---------------------------|------|--|-----|-----|
| 板材标注方式<br>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<br>Part No | 长度<br>Length L | 宽度<br>Total width Wv | 有效宽度<br>Useable width Ww | 壁厚<br>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<br>Wall thickness | 内倒角 ID Chamfer |          | 外倒角 OD Chamfer |          |
|----------------------|----------------|----------|----------------|----------|
|                      | C <sub>i</sub> | α        | C <sub>e</sub> | 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

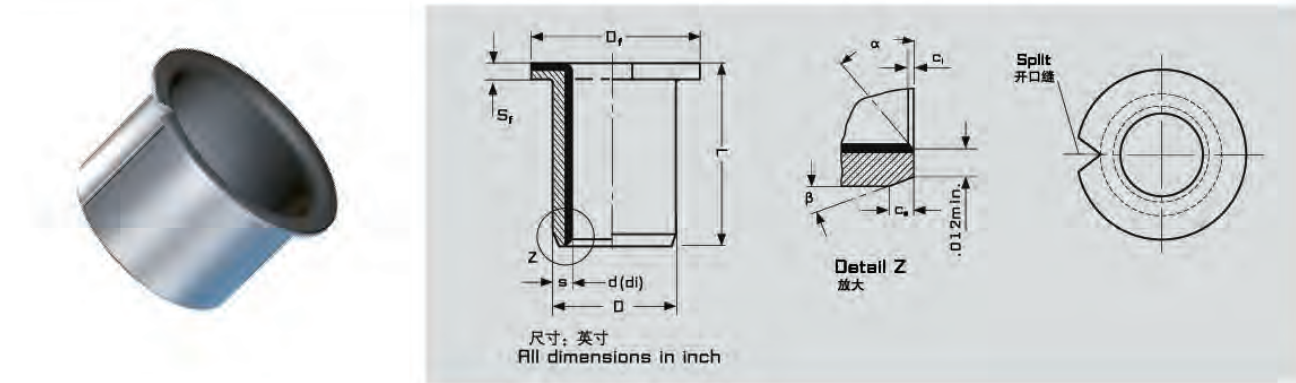
|                           |     |      |     |
|---------------------------|-----|------|-----|
| 直套型号标注方式<br>Bushes Symbol | × × | CNB- | × × |
| 直套内径 Bushing I.D.         |     |      |     |
| 直套型号 Bushing Type         |     |      |     |
| 直套高度 Bushing Length       |     |      |     |

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

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

| 型号<br>Part No | 内径<br>Nominal Diameter $\phi$ d |                           |                       | 外径<br>outside |                  | 高度<br>width  | 壁厚<br>Wall thickness |
|---------------|---------------------------------|---------------------------|-----------------------|---------------|------------------|--------------|----------------------|
|               | 内径<br>d                         | 装配轴径<br>Shaft- $\phi d_s$ | 装配后内孔<br>尺寸 $\phi di$ | 外径<br>D       | 装配座孔<br>DH       | L $\pm$ 0.01 | S                    |
| CNB-1 30 16   | 1<br>7/8                        | 1.8737<br>1.8721          | 1.8787<br>1.8739      | 2             | 2.0633<br>2.0621 |              |                      |

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



内外倒角尺寸表  
Inside & Outside Chamfers

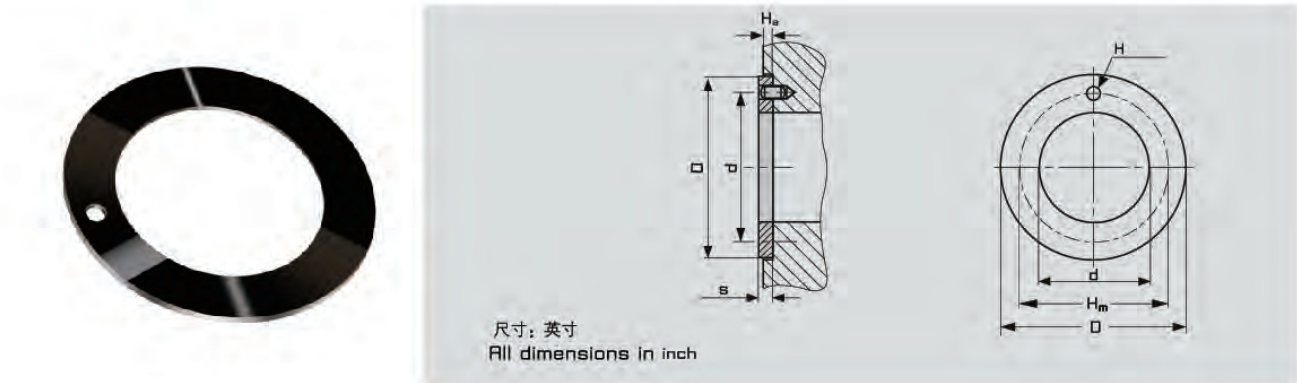
| 壁厚<br>Wall thickness | 内倒角 ID Chamfer |          | 外倒角 OD Chamfer |          |
|----------------------|----------------|----------|----------------|----------|
|                      | C <sub>i</sub> | α        | C <sub>e</sub> | β        |
| 0.0315"              | 0.008" -0.024" | 30° -45° | 0.004" -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<br>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<br>Part No | 内径<br>d | 装配轴径<br>Shaft-φ d <sub>s</sub> | 装配座孔<br>尺寸<br>Housing φD <sub>i</sub> | 法兰厚度<br>Flang wall sf | 法兰外径<br>Flang φD <sub>f</sub> | 高度<br>Length |
|---------------|---------|--------------------------------|---------------------------------------|-----------------------|-------------------------------|--------------|
|               |         |                                |                                       |                       |                               | L±0.01       |
| CNBF-1 06 04  | 3/8     | 0.3750<br>0.3740               | 0.4684<br>0.4691                      | 0.3752<br>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<br>0.5941                      | 0.5002<br>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<br>0.6240               | 0.7184<br>0.7192                      | 0.6252<br>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<br>0.7488               | 0.8747<br>0.8784                      | 0.7502<br>0.7534      | 1<br>1/8                      | 3/8          |
| CNBF-1 06 08  |         |                                |                                       |                       |                               | 1/2          |
| CNBF-1 06 12  |         |                                |                                       |                       |                               | 3/4          |
| CNBF-1 06 08  | 7/8     | 0.8750<br>0.8738               | 0.9997<br>1.0005                      | 0.8752<br>0.8784      | 1<br>1/8                      | 1/2          |
| CNBF-1 06 12  |         |                                |                                       |                       |                               | 3/4          |
| CNBF-1 06 16  |         |                                |                                       |                       |                               | 1            |
| CNBF-1 06 08  | 1       | 1.0000<br>0.9988               | 1.1247<br>1.1255                      | 1.0002<br>1.0034      | 1<br>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<br>Washer Symbol | □ | CNB-□ | × × |
| 垫片 Washer                 |   |       |     |
| 垫片型号 Washer Type          |   |       |     |
| 垫片内径 Washer I. D.         |   |       |     |

| 型号<br>Part No | 内径<br>Internal Diameter<br>φ d |       | 外径<br>External Diameter<br>D |       | 壁厚<br>Wall<br>thickness | 定位孔大小<br>DOWEL<br>HOLE φ h | 定位孔中心距<br>DOWEL<br>HOLE PCD φ hM | 装配深度<br>Decess<br>Depth Ha |
|---------------|--------------------------------|-------|------------------------------|-------|-------------------------|----------------------------|----------------------------------|----------------------------|
|               | min                            | max   | min                          | max   |                         | max<br>min                 | ±0.005                           | max<br>min                 |
| CNW-1 06      | 0.51                           | 0.5   | 0.865                        | 0.875 | 0.063<br>0.061          | 0.077<br>0.067             | 0.687                            | 0.050<br>0.040             |
| CNW-1 07      | 0.572                          | 0.562 | 0.99                         | 1     |                         |                            | 0.781                            |                            |
| CNW-1 08      | 0.635                          | 0.625 | 1.115                        | 1.125 |                         | 0.109<br>0.099             | 0.875                            |                            |
| CNW-1 09      | 0.697                          | 0.687 | 1.177                        | 1.187 |                         |                            | 0.937                            |                            |
| CNW-1 10      | 0.76                           | 0.75  | 1.24                         | 1.25  |                         |                            | 1                                |                            |
| CNW-1 11      |                                |       |                              |       |                         |                            |                                  |                            |