

带锥孔轴承内径公差

With tapered bore bearing diameter tolerance



表5 Table5

(μ m)

d(mm)		Δd		Δd1-Δd	
超过 Over	到 Incl	上差 High	下差 Low	最大 Max.	最小 Min.
10	18	+27	0	+18	0
18	30	+33	0	+21	0
30	50	+39	0	+25	0
50	80	+46	0	+30	0
80	120	+54	0	+35	0
120	180	+63	0	+40	0

注(Notes):

1.公称锥度的偏差由(Δd1-Δd)的极限值所规定, Δd1是孔的大头公称直径Δd1的实际偏差, Δd是轴承孔公称直径d的实际偏差。

1.The deviation from nominal taper is defined as the limits of(Δd1-Δd), where Δd1 is actual deviation of d1 from nominal bore diameter at larger end and Δd1 is actual deviation of d from nominal bearing bore diameter.

2.d1由正式计算

2.d1 is obtained by following formula;

$$d1 = d - 1/12B$$

B-轴承内圈宽度

Where B is width of bearing inner ring.

3. α=公称半锥角The nominal taper angle=2° 23'9.4".

2.轴承座公差Tolerances for Housings

2.1 座的内球面直径公差Tolerances on sperical inside diameter of housing

内球面直径公差
Tolerances on Sperical inside Diameter

表6 Table6

(μ m)

公称球面直径Da(mm) Nominal spherical inside diameter		H7		J7		K7	
超过 Over	到 Incl	上差 High	下差 Low	上差 High	下差 Low	上差 High	下差 Low
30	50	+25	0	+14	-11	+7	-18
50	80	+30	0	+18	-12	+9	-21
80	120	+35	0	+22	-13	+10	-25
120	180	+40	0	+26	-14	+12	-28
180	250	+46	0	+30	-16	+13	-33
250	315	+52	0	+36	-15	+16	-36

注(Notes):

1.Dam=(Damax+Damin)/2

Damax Da 最大测量值 maximum measured value of Da.

Damin Da 最小测量值 minimum measured value of Da.

2.座的内球面直径尺寸的公差分有间隙配合H7,过盈配合H7和K7之间的过渡配合J7。

2.Dimensional tolerances for spherical inside diameter of housing are classified into H7 clearance fit, K7 for interference fit and J7 for intermediate fit between H7 and K7.

3.采用间隙配合H7时, 轴承外圈装有止动销。

3.When H7 fit is applied,the self-contained bearings are equipped with locking-pins.