

## 氮化硅滚子尺寸公差表

### Dimensions and tolerances of ceramic bearing roller

直径和圆度(Diameter and Roundness)      单位( unit): $\mu\text{m}$

等级 Grade	直径 Diameter		批直径变动量 Variation of roller lot diameter VDWL Max	直径规值间距 Diameter gauge interval	常用规值 Preferred gauges	圆度误差 Roundness tolerance
	超过 from	到 to				
0	3	18	1	1	-10,...,-1 0 +1,...,+5	0.3
0	18	30	1	1	-10,...,-1 0 +1,...,+5	0.4
I	3	18	2	1	-10,...,-1 0 +1,...,+5	0.4
I	18	30	2	1.5	-10.5,...,-1.5 0 +1.5,...,+6	0.5
II	3	18	3	1	-10,...,-1 0 +1,...,+5	1.0
II	18	30	3	1.5	-19.5,...,-1.5 0 +1.5,...,+6	1.5
II	30	45	3	2	-20,...,-2 0 +3,...,+6	2.5

长度(Length)      单位( unit): $\mu\text{m}$

等级 Grade	长度 length		批长度变动量 Variation of roller lot length VLWL Max	长度规值间距 Length gauge interval	常用规值 Preferred gauges	端面跳动 Ends runout
	超过 From	到 to				
0	3	26	6	6	-30,...,-6 0	3
0	26	50	6	6	-30,...,-6 0	3
I	3	26	10	6	-30,...,-6 0	5
I	26	50	10	10	-40,...,-10 0	5
II	3	26	14	6	-30,...,-6 0	6
II	26	50	14	10	-40,...,-10 0	6
II	50	80	14	12	-48,...,-12 0	6

表面粗糙度 (Roughness)      单位( unit): $\mu\text{m}$

等级 Grade	滚动表面 Surface Ra Max	端面 Ends	倒角 Chamfer
0	0.1	0.125	1.25
I	0.25	0.16	1.25
II	0.16	0.25	2.5