



Jiashan TD Composite Bearing Factory

嘉善天地复合轴承厂



Ball Retainer

钢球保持架



基材特性 Material Features

FZH (铜基)、FZL (铝基)、FZP (树脂基) 钢球保持架, 分别以铜合金、硬铝合金、POM树脂为基体, 并在其外圆表面上, 加工出排列有序、大小适当, 形状特殊的孔穴, 在其孔穴中镶入滚动轴承钢球。口采用最新的沟槽圆周锁球工艺, 有效地解决了传统式锁球和压痕式锁球不能完全防止钢球脱落的难题。孔底加工出90° 止口使钢球在孔内自由转动而不脱落。由于钢球的直径大于保持圈的壁厚, 所以在使用时钢球高出保持圈内、外圆表面, 直接与相配的孔与轴接触, 使基体(保持圈)浮于中间, 并且相配的孔与轴半径之差小于钢球直径, 即钢球与之配合为过盈配合, 配合精度高, 轴与孔相对运动灵活。是保持圈的更新换代产品。

FZH、FZL、FZP ball retainer are as copper, aluminium, POM base. they are machined some regular holes and embedded the steel-ball into. The new work-craft will prevent the ball getting out of as old. as the ball diameter is larger than the retainer's thickness, so it will face to face directly with 90° guide bushing, that will bring high precision match now the ball retainer series items are designed to rotate on the post, as well as maintain its vertical motion. we believe this will give you the benefit of increasing accuracy.

主要参数 Specification

性能指标 Performance Index	有关数据 Data
最大承载压力 P Max Load Capacity P	30N/mm ²
装配过盈 Assembling Shrink	0.01mm~0.02mm
最高滑动速度 Max.Sliding Speed V	6m/s
摩擦系数 μ Friction Coef μ	0.01~0.08
钢球直径偏差 Deviation of The Steel Ball Diameter	<0.01mm

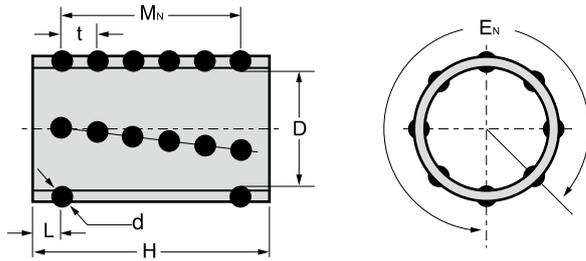
优点与用途 Advantages and Application

传统的具有相对运动的孔与轴是有一定间隙的, 并孔与轴之间运动摩擦系数较大, 使用钢球保持圈后, 使轴与孔不直接接触, 而是通过中间微量过盈的钢球, 因而运动精度高, 滚动摩擦代替滑动摩擦, 滚动灵活, 摩擦系数小, 使用寿命长, 在既有转动、又有移动的场所, 用无油或加油的轴套与轴相配合, 虽然能满足, 但运动精度较低, 用滚动轴承, 只能满足轴相对转动的场合, 而钢球保持圈, 则上述二个条件均得到满足, 目前已广泛应用于冷冲模滚动模架、高精度机床、机床附件以及要求高精度轴向或轴径向同时运动场合。

As the traditional work-craft has some grudge between bushing with posts, and the coefficient of friction is larger. now we have changed the work-ways to steel-ball directly face to face guide bushing, so the precision is improved. it composes of both active roll and lower friction coefficient, now they have been widely used in punching machine, die machine, high precision machine which need rotation and vertical motion.

Ball Retainer Metric Size

钢球保持架尺寸



单位unit:mm

型号规格 Designation	ΦD	H	Φd	EN	Mn	Ball	t	T	
31950	19	50	3	12	8	96	5.5	5.75	
31960		60			10	120		5.25	
32050	20	50			14	8		96	5.75
32060		60		10		120		5.25	
32250		22		50		16		8	112
32260	60			10	140			5.25	
32360	60			10	140			5.25	
32475	24	75		4	16	13		208	4.50
32550	25	50				8		128	5.75
32560		60				10		160	5.25
32575		75				13		208	4.50
32775	27	75				13		208	4.50
42860	28	60	5			14	8	112	6.5
42875		75		11	154		5.00		
43060	30	60		16	8		112	7.25	
43075		75			11	154	5.00		
43260		32			60	18	8	128	
43275	75			11	176		5.00		
43290	90			13	208		6.00		
43685	36	85		20	12	192	6.75		
43690		90			13	208	6.00		
53870		38			70	22	8	128	
53890	90			11	176		5.00		
54090	90			11	176		5.00		
54590	45	90	28	11	198	5.00			
545110		110		13	234	7.00			
55090		50		90	5	20	11	220	5.00
550110	110		13	260			7.00		
56090	60		90	22			11	242	5.00
560110			110				13	286	7.00
580130	80	130	28	15	420	9.00			



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