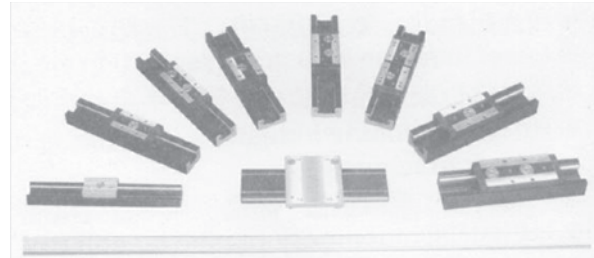


五、双轴心导轨

双轴心导轨特点

价格优势

- 降低二分之一的产品价格
- 减少三分之一的产品组装时间
- 降低四分之一的维修及替换费用。
- Price of products being reduced by one half
- Time for installation being reduced by one third
- Cost for repair and replacement being reduced by one fourth



高精密

- 重复精度：误差在三微米以内
- 速度：比现有的其它型号快五倍，速度每秒可达10米长及低噪音
- 直线度：正负十微米以内
- 可调式导轮预压：在不同负载下，通过调节预压使导轮和导轨之间的间隙达到“零”
- 平行式轴承导轮：在0-6米内提高了平行精度而不产生明显误差
- Repetition error: within three microns
- Speed: it is five times than other existing products up to ten meters per second and lower noise
- Linearity: deviation within ± 10 microns
- Adjustable roller pressure: adjusting the pressure according to different load conditions to achieve "zero" gap
- Adjustable roller support improves linearity of movement without causing any noticeable error in 6 meters

高可靠性

- 偏心螺母设计：调节简易，应不同的负载调校到最适合的间隙
- The eccentric roller-bearing support may be adjusted very simply and reliably to "zero" gap under various loading conditions
- 防松设计：偏心螺母式，轴承导轮的固定螺母设计有防松功能
- Prevention of uncontrollable wobbling: eccentric roller support

高耐磨性 High resistance to grinding

- 钢轴经过特别加硬处理，磨性极高
- The surface of steel shaft is hardened to greatly improve resistance to wear due to grinding

设计独到 Special design feature

- 产品设计坚固(铝材和高碳钢结合)，可作支架或底板使用，大大减低设计及制作成本而达到最高效益
- All products are so strongly built to serve not only the normal operation but also act, very cost-effectively, as trestle and chassis

价格大众化 Low price

- 以低于滚珠导轨的价格而得到同等的精度及质量
- The same quality of products but at lower price

专业化生产多种材质的直线轴

- Special design in the production of various high quality linear shafts.
- 轴承钢，不锈钢，高碳钢 ● GCr15, SUS440, C45#

双轴心导轨的应用领域

激光机行业：激光切割机，激光雕刻机等。

Laser machine industry: laser cutting machines and laser engraving machines, etc.

点胶机行业：全自动点胶机，半自动点胶机等。

Rubber machine industry: automatic rubber machines and semi-automatic rubber machines, etc.

产业机械：塑料机械，印刷机械，造纸机械，纺织机械，食品加工机械，木工机械等。

Industrial machinery: plastic machinery, printing machinery, textile machinery, papermaking machinery, food machinery and woodwork machinery, etc.

电子机械：半导体机械，机械手臂，X-Y平台，量测设备，电子设备等。

Electronic machinery: semiconductor machinery, mechanical arm, X-Y platform, measurement equipment and electronic equipment, etc.

高速运输设备：High-speed transportation equipment.

医疗设备：Medical equipment.

高档家私：High-grade furniture.

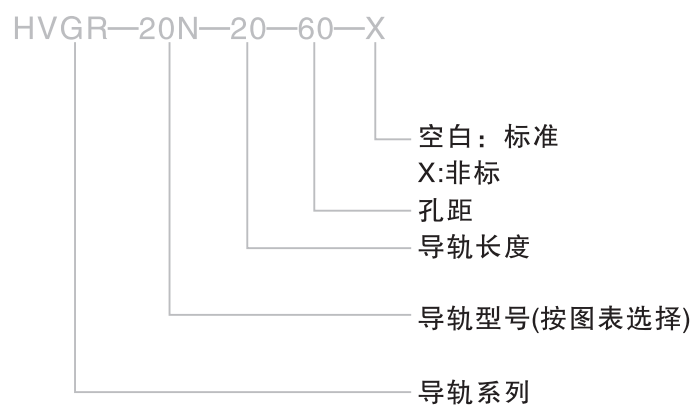
双轴心与滚珠导轨对照表

功能对照表 Table of comparison

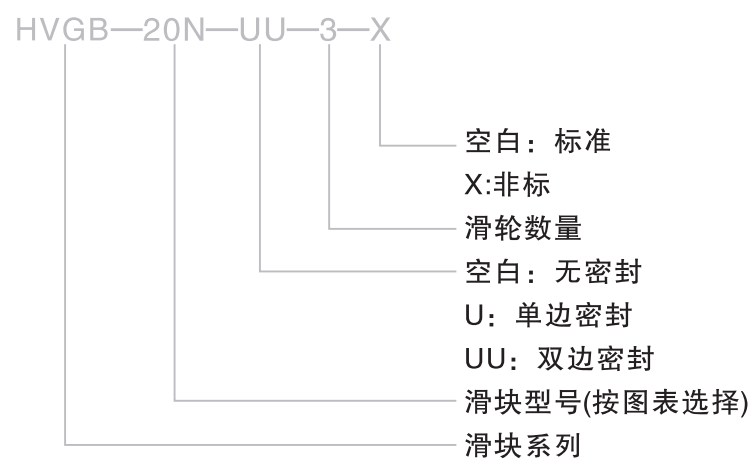
内容 Contents	滚珠导轨 Ball guide rail	双轴心导轨 Dual-shaft guide rail
可调式预压：“零”间隙的标准 Adjustable roller pressure: "zero" gap	不可以 No	可以 Yes
高灰尘场合适用 Works in dusty environment	不可以 No	可以 Yes
磨损零件可换性 Replaceability	不可以 No	可以 Yes
需磨基机来安装导轨 Grinding of surface for rail installation	需要 Yes	不需要 No
设计特点 Special design feature	用于XY或Z轴时，需要加底板或支架 Additional chassis and trestle required when use in XY or Z axis	本身可当支柱或是底板来使用 No additional trestle and chassis required
精准及重复性品质保证 Quality assurance	不适用 Not applicable	平行度：6米内没有明显误差 Linearity: no noticeable error in 6 meters 重复精度：3-5um Repetition error 3-5um 间隙：“0”间隙 Gap: "zero"
滑块长度及滑轮可随客户所需加长或加多 The length of slide board and the Number of roller can be custom-made	不可以 No	可以 Yes
高速噪音 Noise at high speed	高 High	低 Low
高速指标 Higher speed target	重型及慢定位 Heavy and slow in positioning	轻型及快速定位 Light and quick in positioning
减少材料，时间，人工设计成本 Overall reduction of time, material and labor	不可以 No	可以 Yes

产品选型指引

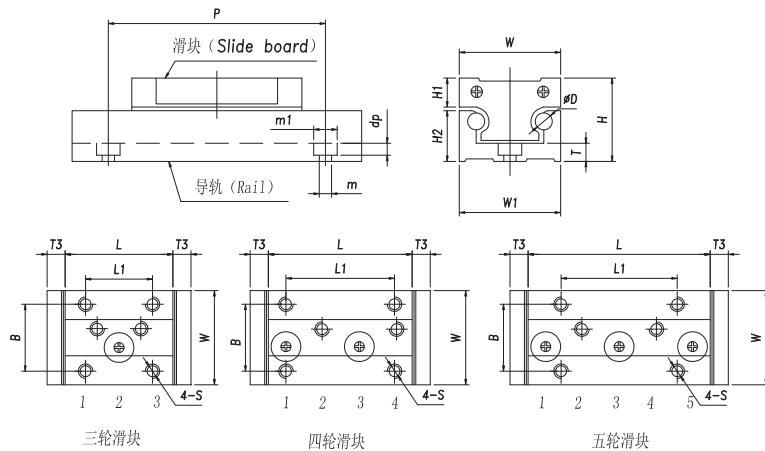
导轨：



滑块：



参数资料(内置型)



单位(unit):mm

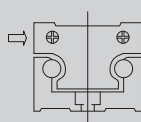
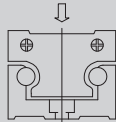
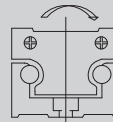
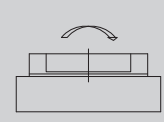
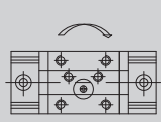
注: “D”表示轴的直径; “Mr”表示导轨的质量; “M”表示滑块的质量; “Qp”表示滑轮的数量; “BL”表示基本动力安全负荷; “DT”表示动力矩。

Note: “D” indicates diameter; “Mr” indicates mass of guide rail; “Mb” indicates mass of slide board; “BL” indicates allowable dynamic load; “DT” indicates allowable dynamic torque.

型号 Model Number	全套(Set)		导轨 SVGR(Guide Rail)										滑块 SVGB(Slide board)											Mb (g/pcs)
	H	W	W1	H2	dp	P	D	Mr (g/m)	T	ml	m	W	H1	L	B	L1	S	QP	BL(N)		DT(N-m)			
																			Yo	Zo	Mxo	Myo	Mzo	
10	23	28	28	14	3.3	60	5	1051	5	6.5	3.4	26	8	47	18.5	18.5	M4	3	343	322	6.4	6.8	7.1	70
														63				4	450	420	10.2	11.3	11.5	94
15N	32	38	38	18.5	6	120	6	1651	8	8	4.5	36	12	60	26	26	M5	3	490	460	7.4	7.8	10.2	105
														80				4	700	660	13.2	14	14.5	140
														100				5	980	920	20.3	37	39	170
15	32	46	46	18.5	6	120	6	1784	8	8	4.5	45	12	52	32	36	M5	3	490	460	9.2	9.8	13.8	110
														68				4	700	660	19.8	21.1	22.4	145
														84				5	980	920	27.7	44.3	47	185
20N	36	47	47	22.5	6	120	8	2427	9	9.5	5.5	46	12	80	38	30	M6	3	820	700	15.4	21.5	29.4	195
														106				4	1400	1000	42	52	61.6	265
														132				5	1960	1400	58.8	92.4	129	325
20	36	60	60	22.5	6	120	8	2744	9	9.5	5.5	58	12	72	50	40	M6	3	820	700	18.2	25.4	421	210
														94				4	1400	1000	44	60.2	72.8	280
														116				5	1960	1400	842	109.2	152.8	350
25	44	69	69	26	7	120	10	3873	10	10	6.6	67	16	100	57	45	M8	3	1470	1260	4158	48.51	67.62	460
														133				4	2100	1800	96.6	118.8	138.6	615
														166				5	2940	2520	135	249.48	291.06	775
35	55	100	90	45	8.5	160	12	6442	12	14	9	98	18	140	82	62	M10	3	2800	2800	159.6	126	128	1100
														185				4	4000	4000	228	360	360	1450
														230				5	5600	5600	319.2	756	756	1835

☆ 导轨和滑块尺寸可随客户要求定做。(Products may be custom-made)

负荷传动力

负 荷 (load)												
			静力安全 负荷 Allowable static load (N)	动力安全 负荷 Allowable dynamic Load (N)	静力安全 负荷 Allowable static load (N)	动力安全 负荷 Allowable dynamic Load (N)	容许动力矩 Allowable dynamic torque (Nm)					
型 号 (Model No.)		负 荷 方 向 Load direction	Y	Yo	Z	Zo	Mxo	Myo	Mzo			
HVGB	10	3	340	343	160	322	6.4	6.8	7.1			
		4	430	450	220	420	10.2	11.3	11.5			
	15N	3	490	490	280	460	10.2	9.2	9.8			
		4	700	700	400	660	14.5	13.2	14			
		5	980	980	560	920	20.3	37	39			
	15	3	490	490	280	460	13.8	7.4	7.8			
		4	700	700	400	660	19.8	21.1	22.4			
		5	980	980	560	920	27.7	44.3	47			
	20N	3	700	700	590	980	29.4	25.4	18.2			
		4	1000	1000	850	1400	42	72.8	52			
		5	1400	1400	1190	1960	58.8	152.8	109.2			
	20	3	700	700	590	980	42.1	21.5	15.4			
		4	1000	1000	850	1400	60.2	61.6	44			
		5	1400	1400	1190	1960	84.2	129	92.4			
	25	3	1260	1260	840	1470	67.62	48.5	41.58			
		4	1800	1800	1200	2100	96.6	138.6	118.8			
		5	2520	2520	1680	2940	135.24	291.6	249.48			
	35	3	2800	2800	1680	2800	159.6	126	126			
		4	4000	4000	2400	4000	228	360	360			
		5	5600	5600	3360	5600	319.2	758	756			