



















Contents 總目錄

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Ball Retainer

鋼球襯套



Type HWC001

HWC002

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Accessories

精選配件



Type HWA001

HWA002

HWA003

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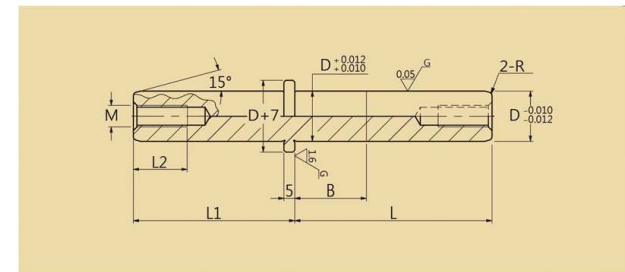
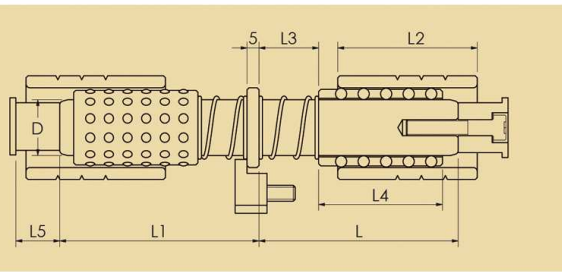
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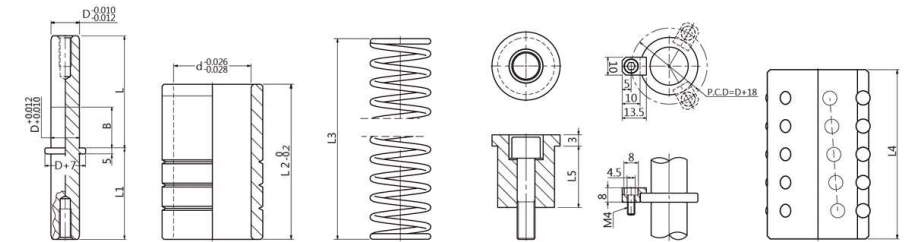
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CONSTITUENT PARTS 構成零件

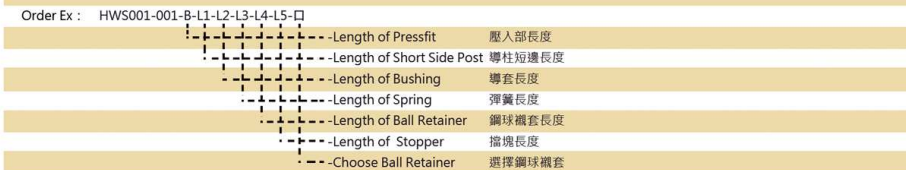


HWP001 HWB001 HWA001 HWA002 HWA003 HWC001 (A) HWC002 (B)

Order No.	B (u:1mm)	D	d	L	L1	L2	L3 (u:5mm)	L4	L5 (u:1mm)
HWS001-001-B-L1-L2-L3-L4-L5-□	10~30	16	20	70	30/40/50/60	35/40	30~90	30/35/40	10~20
HWS001-002-B-L1-L2-L3-L4-L5-□	10~30	16	20	80	30/40/50/60/70	35/40	30~90	30/35/40	10~20
HWS001-003-B-L1-L2-L3-L4-L5-□	10~30	16	20	90	40/50/60/70/80	35/40	30~90	30/35/40	10~20
HWS001-004-B-L1-L2-L3-L4-L5-□	10~30	20	26	80	40/50/60/70	40/45/50	35~90	30/35/40/45	11~25
HWS001-005-B-L1-L2-L3-L4-L5-□	10~30	20	26	90	40/50/60/70	40/45/50	35~90	30/35/40/45	11~25
HWS001-006-B-L1-L2-L3-L4-L5-□	10~30	20	26	100	50/60/70/80	40/45/50	35~90	30/35/40/45	11~25

Order No.	B (u:1mm)	M	R	D	L	L1	L2
HWP001-001-B-L1	10~30	M5xP0.8	1.5	13	60	30/40/50	22
HWP001-002-B-L1	10~30				70	30/40/50/60	
HWP001-003-B-L1	10~30				80	40/50/60	
HWP001-004-B-L1	10~30	M6xP1.0	2	16	70	30/40/50/60	25
HWP001-005-B-L1	10~30				80	30/40/50/60/70	
HWP001-006-B-L1	10~30				90	40/50/60/70/80	
HWP001-007-B-L1	10~30	M8xP1.25	2	20	80	40/50/60/70	25
HWP001-008-B-L1	10~30				90	40/50/60/70	
HWP001-009-B-L1	10~30				100	50/60/70/80	
HWP001-010-B-L1	10~30	M8xP1.25	3	25	90	50/60/70	25
HWP001-011-B-L1	10~30				100	50/60/70/80	
HWP001-012-B-L1	10~30				110	60/70/80/90	

HWC001 (A)-Plastic with Max Balls 高剛性塑料
HWC002 (B)-Aluminium with Max Balls 高剛性鋁合金



Further dimensions on request
規格尺寸若另有需求, 歡迎洽詢

※ unit=u

- Roundness 1.5µm
- Concentricity 5µm
- Material SKD11 (1.2344)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Delivery 7 Working Days
- 真圓度 1.5µm
- 同心(軸)度 5µm
- 材質 工具鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 交貨日 7 個工作日

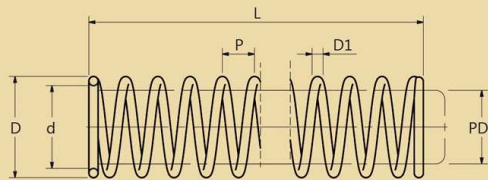
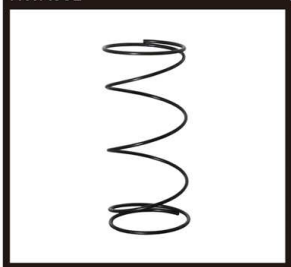
Order No.	B (u:1mm)	M	R	D	L	L1	L2
HWP001-001-B-L1	10~30	M5xP0.8	1.5	13	60	30/40/50	22
HWP001-002-B-L1	10~30				70	30/40/50/60	
HWP001-003-B-L1	10~30				80	40/50/60	
HWP001-004-B-L1	10~30	M6xP1.0	2	16	70	30/40/50/60	25
HWP001-005-B-L1	10~30				80	30/40/50/60/70	
HWP001-006-B-L1	10~30				90	40/50/60/70/80	
HWP001-007-B-L1	10~30	M8xP1.25	2	20	80	40/50/60/70	25
HWP001-008-B-L1	10~30				90	40/50/60/70	
HWP001-009-B-L1	10~30				100	50/60/70/80	
HWP001-010-B-L1	10~30	M8xP1.25	3	25	90	50/60/70	25
HWP001-011-B-L1	10~30				100	50/60/70/80	
HWP001-012-B-L1	10~30				110	60/70/80/90	



※ unit=u

Spring
彈簧

HWA001

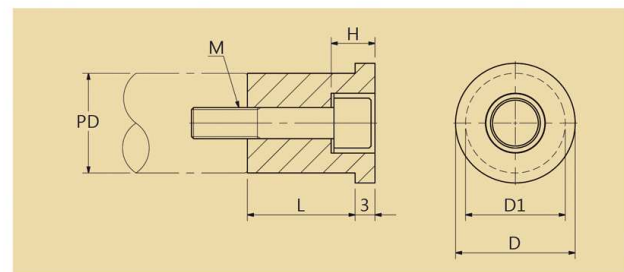


Order No.	PD	D	D1	d	P	L (u:5mm)
HWA001-001-L	10	11.7	0.6	10.5	5	30~80
HWA001-002-L	13	14.9	0.7	13.5	6	30~80
HWA001-003-L	16	18.3	0.8	16.5	12	30~90
HWA001-004-L	20	22.5	1.0	20.5	14	35~90
HWA001-005-L	22	24.5	1.0	22.5	14	40~140
HWA001-006-L	25	27.9	1.2	25.5	14	40~150
HWA001-007-L	28	31.3	1.4	28.5	16	50~150
HWA001-008-L	32	35.7	1.6	32.5	16	70~190
HWA001-009-L	38	42.5	2.0	38.5	18	80~190
HWA001-010-L	45	50.1	2.3	45.5	20	80~190
HWA001-011-L	50	55.7	2.6	50.5	20	80~190

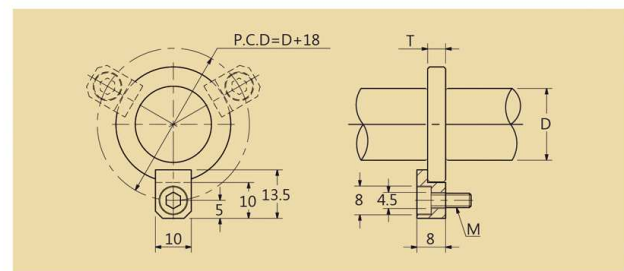
Order Ex : HWA001-001-L
 ---Length of Spring 彈簧長度

※ unit=u

Stopper for Ball Retainer / Clamps
 固定式擋塊 / 固定用夾具



HWA002



HWA003



※ Including Screws 附螺絲

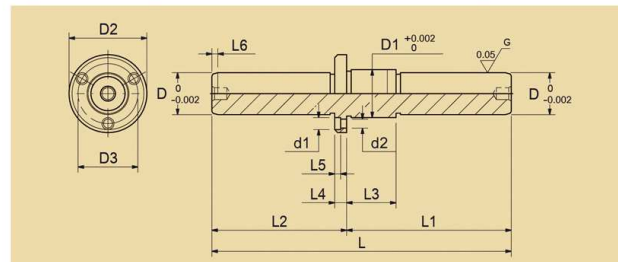
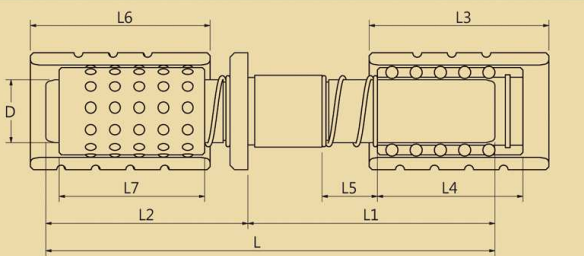
Order No.	PD	H	M	D	D1	L (u:1mm)
HWA002-001-L	13	6.5	5	15	12	10~20
HWA002-002-L	16	8.5	6	17.3	15	10~20
HWA002-003-L	20	11	8	24	19	11~25
HWA002-004-L	25	11	8	29	24	11~30

Order Ex : HWA002-001-L
 ---Length of Stopper 擋塊長度

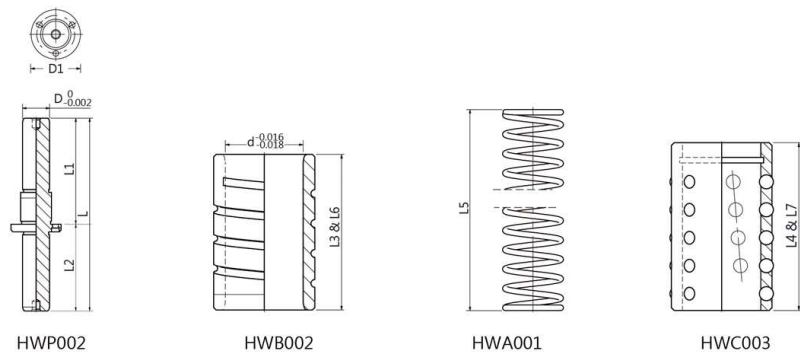
※ unit=u

Order No.	T	M
HWA003-001	5	4

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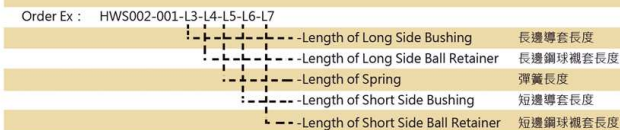


CONSTITUENT PARTS 構成零件



Order No.	D	D1	d	L	L1	L2	L3 & L6	L4 & L7	L5 (u:5mm)
HWS002-001-L3-L4-L5-L6-L7	16	38	22	132	70	62	23/37/47/60	24/35/42/52	30~90
HWS002-002-L3-L4-L5-L6-L7	16	22	152	90	62		23/37/47/60	24/35/42/52	30~90
HWS002-003-L3-L4-L5-L6-L7	16	22	180	90	90		23/37/47/60	24/35/42/52	30~90
HWS002-004-L3-L4-L5-L6-L7	19	42	25	160	90	70	37/47/57/60/69/77	35/43/50/57/65/72	35~90
HWS002-005-L3-L4-L5-L6-L7	19	25	180	110	70		37/47/54/60/69/77	35/43/50/57/65/72	35~90
HWS002-006-L3-L4-L5-L6-L7	19	25	210	110	100		37/47/54/60/69/77	35/43/50/57/65/72	35~90
HWS002-007-L3-L4-L5-L6-L7	25	53	31	170	85	85	47/60/69/77/95	43/52/60/67/84	40~90
HWS002-008-L3-L4-L5-L6-L7	25	48	31	200	100	100	47/60/69/77/95	43/52/60/67/84	40~90
HWS002-009-L3-L4-L5-L6-L7	25	53	31	200	100	100	47/60/69/77/95	43/52/60/67/84	40~90
HWS002-010-L3-L4-L5-L6-L7	25	31	212	140	72		47/60/69/77/95	43/52/60/67/84	40~90
HWS002-011-L3-L4-L5-L6-L7	25	31	254	140	114		47/60/69/77/95	43/52/60/67/84	40~90
HWS002-012-L3-L4-L5-L6-L7	25	31	275	160	115		47/60/69/77/95	43/52/60/67/84	40~90

Order No.	D	D1	D2	D3	d1	d2	L	L1	L2	L3	L4	L5	L6
HWP002-001	12	13	28	20	6	3.4	90	50	40	12	6	3.4	3
HWP002-002							120	60	60				
HWP002-003	16	18	38	28	8	4.5	132	70	62	16	8	4.6	5
HWP002-004							152	90	62				
HWP002-005							180	90	90				
HWP002-006	19	22	42	32	8	4.5	160	90	70	20	8	4.6	5
HWP002-007							180	110	70				
HWP002-008							210	110	100				
HWP002-009	25	26	53	40	11	6.6	170	85	85	25	12	6.8	5
HWP002-010			48	38	8	4.5	200	100	100	22	8	4.6	
HWP002-011			53	40	11	6.6	200	100	100	25	12	6.8	
HWP002-012							212	140	72				
HWP002-013							254	140	114				
HWP002-014							275	160	115				
HWP002-015	32	32.5	60	46	11	6.6	175	90	85	27	12	6.8	5
HWP002-016							192	120	72				
HWP002-017							212	120	92				
HWP002-018							252	140	112				
HWP002-019							275	160	115				
HWP002-020	40	42	70	56	11	6.6	220	120	100	27	12	6.8	5
HWP002-021							240	130	110				
HWP002-022							260	140	120				
HWP002-023							300	180	120				



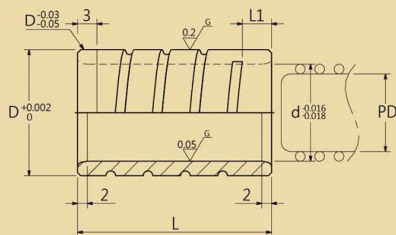
Further dimensions on request
規格尺寸若另有需求, 歡迎洽詢

※ unit=u

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Precision Guide Bushing for Ball Retainer
鋼球型精密卸料板導套

HWB002



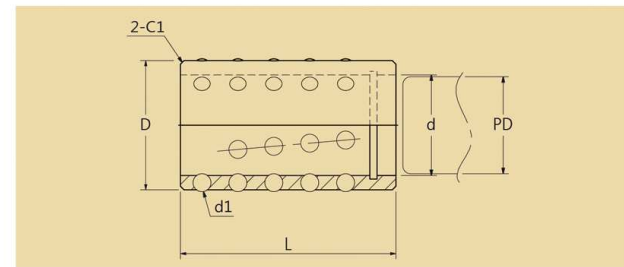
- Roundness 1.5µm
- Concentricity 5µm
- Material SUJ2 (1.3505)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Surface Treatment Blackening
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 5µm
- 材質 軸承鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 表面處理 染黑(黑色氧化)
- 交貨日 7 個工作日

Order No.	PD	D	d	L	L1
HWB002-001	12	22	16	23	4
HWB002-002				30	4
HWB002-003				37	5
HWB002-004				47	7
HWB002-005	16	28	22	23	4
HWB002-006				30	4
HWB002-007				37	5
HWB002-008				47	7
HWB002-009				60	7
HWB002-010	19	32	25	30	4
HWB002-011				37	5
HWB002-012				47	7
HWB002-013				54	7
HWB002-014				60	7
HWB002-015				69	7
HWB002-016				77	7
HWB002-017	25	40	31	37	5
HWB002-018				47	7
HWB002-019				60	7
HWB002-020				69	7
HWB002-021				77	7
HWB002-022				95	7

Order No.	PD	D	d	L	L1
HWB002-023	32	48	40	47	7
HWB002-024				60	7
HWB002-025				77	7
HWB002-026				87	7
HWB002-027				95	7
HWB002-028	40	58	48	60	7
HWB002-029				77	7
HWB002-030				87	7
HWB002-031				95	7
HWB002-032				120	7

Ball Retainer with Anti-Skid Unit
配耐磨環型鋼球襯套



HWC003



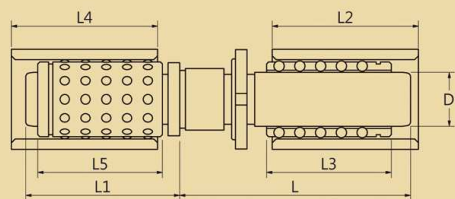
※ Including Anti-Skid Unit 附耐磨環

- Material Aluminium-Cage
- Surface Treatment SUJ2 (1.3505)-Balls
- Delivery Anodizing
- Delivery 7 Working Days

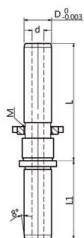
- 材質 鋁合金-保持器
- 表面處理 軸承鋼-鋼球
- 交貨日 陽極處理
- 交貨日 7 個工作日

Order No.	PD	D	d	d1	L	Balls
HWC003-001	12	15.5	12.5	2	20	72
HWC003-002					28	108
HWC003-003					36	132
HWC003-004					42	156
HWC003-005					51	192
HWC003-006	16	21.5	16.5	3	24	48
HWC003-007					35	84
HWC003-008					42	108
HWC003-009					52	132
HWC003-010					65	180
HWC003-011	19	24.5	19.5	3	35	112
HWC003-012					43	144
HWC003-013					50	176
HWC003-014					57	208
HWC003-015					65	240
HWC003-016					72	272
HWC003-017					82	304
HWC003-018	25	30.5	25.5	3	43	162
HWC003-019					52	198
HWC003-020					60	252
HWC003-021					67	270
HWC003-022					77	324
HWC003-023					84	360
HWC003-024					100	432
HWC003-025					108	468

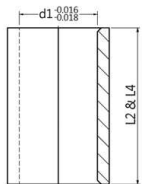
Order No.	PD	D	d	d1	L	Balls
HWC003-026	32	39.5	32.5	4	45	144
HWC003-027					52	162
HWC003-028					65	216
HWC003-029					74	252
HWC003-030					80	270
HWC003-031					90	306
HWC003-032					100	342
HWC003-033					110	378
HWC003-034					121	414
HWC003-035	40	47.5	40.5	4	55	200
HWC003-036					60	220
HWC003-037					65	240
HWC003-038					75	280
HWC003-039					80	300
HWC003-040					85	320
HWC003-041					100	380
HWC003-042					115	440
HWC003-043					125	480
HWC003-044					134	520
HWC003-045					150	580



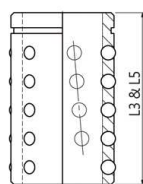
CONSTITUENT PARTS 構成零件



HWP003



HWB003



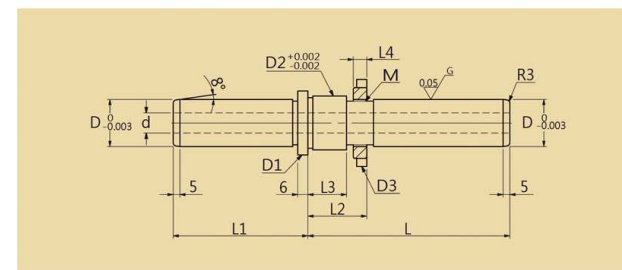
HWC004

Order No.	M	D	d	d1	L1	L	L2 & L4	L3 & L5
HWS003-001-L2-L3-L4-L5	M22x1.5	19	8	25	80	120	23/30/37/47/60/77	44/56/72/80/96
HWS003-002-L2-L3-L4-L5	M28x1.5	25	12	31	80	120	23/30/37/47/60/77	44/56/72/80
HWS003-003-L2-L3-L4-L5	M35x1.5	32	20	40	100	140	30/37/47/60/77/95	45/50/55/70/80/95/120
HWS003-004-L2-L3-L4-L5	M45x1.5	40	28	56	100	140	30/37/47/60/77/95/120	45/50/55/80/95/120/140

Order Ex : HWS003-001-L2-L4

--- -Length of Long Side Bushing 長邊導套長度
- -Length of Short Side Bushing 短邊導套長度

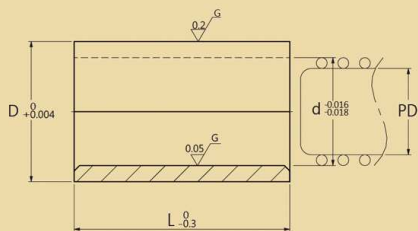
Further dimensions on request
規格尺寸若有需求, 歡迎洽詢



HWP003

Order No.	M	D	D1	D2	D3	d	L	L1	L2	L3	L4
HWP003-001	M22x1.5	19	32	25	40	8	120	80	45	29	9
HWP003-002	M28x1.5	25	38	30	50	12	120	80	45	29	10
HWP003-003	M35x1.5	32	46	36	55	20	140	100	50	34	11
HWP003-004	M45x1.5	40	56	46	68	28	140	100	50	34	12

- | | | | |
|-----------------------|------------------|---------|----------|
| -Roundness | 1.5µm | -真圓度 | 1.5µm |
| -Concentricity | 5µm | -同心(軸)度 | 5µm |
| -Material | SUJ2 (1.3505) | -材質 | 軸承鋼 |
| -Heat Treatment | Surface Hardened | -熱處理 | 高頻淬火 |
| -Hardness | HRC62 ±2 | -硬度 | HRC62 ±2 |
| -Hardness Penetration | 1.5~2mm | -熱處理深度 | 1.5~2mm |
| -Delivery | 7 Working Days | -交貨日 | 7 個工作日 |



- Roundness 1.5µm
- Concentricity 5µm
- Material SUJ2 (1.3505)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 5µm
- 材質 軸承鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 交貨日 7 個工作日

Order No.	PD	D	d	L	Order No.	PD	D	d	L
HWB003-001	15	28	21	23	HWB003-023	24	40	30	23
HWB003-002				30	HWB003-024				30
HWB003-003				37	HWB003-025				37
HWB003-004				47	HWB003-026				47
HWB003-005				60	HWB003-027				60
HWB003-006	16	28	22	23	HWB003-028				77
HWB003-007				30	HWB003-029	25	40	31	23
HWB003-008				37	HWB003-030				30
HWB003-009				47	HWB003-031				37
HWB003-010				60	HWB003-032				47
HWB003-011	19	32	25	23	HWB003-033				60
HWB003-012				30	HWB003-034				77
HWB003-013				37	HWB003-035	30	48	38	30
HWB003-014				47	HWB003-036				37
HWB003-015				60	HWB003-037				47
HWB003-016				77	HWB003-038				60
HWB003-017	20	32	26	23	HWB003-039				77
HWB003-018				30	HWB003-040				95
HWB003-019				37	HWB003-041	32	48	40	30
HWB003-020				47	HWB003-042				37
HWB003-021				60	HWB003-043				47
HWB003-022				77	HWB003-044				60
					HWB003-045				77
					HWB003-046				95

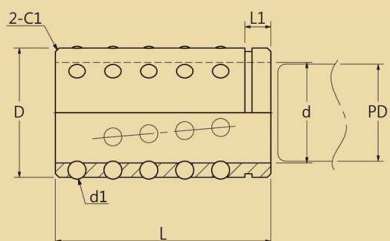
Further dimensions on request
規格尺寸若另有需求, 歡迎洽詢

Order No.	PD	D	d	L	Order No.	PD	D	d	L
HWB003-047	38	58	46	30					
HWB003-048				37					
HWB003-049				47					
HWB003-050				60					
HWB003-051				77					
HWB003-052				95					
HWB003-053				120					
HWB003-054	40	58	48	30					
HWB003-055				37					
HWB003-056				47					
HWB003-057				60					
HWB003-058				77					
HWB003-059				95					
HWB003-060				120					
HWB003-061	48	70	56	37					
HWB003-062				47					
HWB003-063				60					
HWB003-064				77					
HWB003-065				95					
HWB003-066				120					
HWB003-067	50	70	58	37					
HWB003-068				47					
HWB003-069				60					
HWB003-070				77					
HWB003-071				95					
HWB003-072				120					

Visit us : www.hdw.com.tw
Contact : headway@hdw.com.tw

Ball Retainer with Circlip
C 扣型鋼球襯套

HWC004



※ Including Circlip 附 C 扣

-Material Brass-Cage
SUJ2 (1.3505)-Balls
-Delivery 7 Working Days

-材質 銅-保持器
軸承鋼-鋼球
-交貨日 7 個工作日

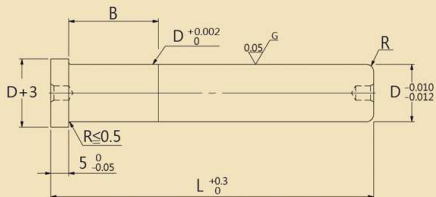
Order No.	PD	d1	L	L1	Balls	Order No.	PD	d1	L	L1	Balls
HWC004-001	15	3	44	2.9	144	HWC004-025	24	3	32	3.2	120
HWC004-002			56		192	HWC004-026			40		160
HWC004-003			64		224	HWC004-027			44		180
HWC004-004			72		256	HWC004-028			56		240
HWC004-005	16	3	24	2.9	64	HWC004-029			72		320
HWC004-006			28		80	HWC004-030			80		360
HWC004-007			44		144	HWC004-031			96		440
HWC004-008			56		192	HWC004-032			120		560
HWC004-009			64		224	HWC004-033	25	3	32	3.2	120
HWC004-010			72		256	HWC004-034			40		160
HWC004-011	19	3	32	2.9	120	HWC004-035			44		180
HWC004-012			44		180	HWC004-036			56		240
HWC004-013			56		240	HWC004-037			72		320
HWC004-014			72		320	HWC004-038			80		360
HWC004-015			80		360	HWC004-039			96		440
HWC004-016			96		440	HWC004-040			120		560
HWC004-017	20	3	24	2.9	80						
HWC004-018			28		100						
HWC004-019			32		120						
HWC004-020			44		180						
HWC004-021			56		240						
HWC004-022			72		320						
HWC004-023			80		360						
HWC004-024			96		440						

Ball Retainer with Circlip
C 扣型鋼球襯套

Order No.	PD	d1	L	L1	Balls	Order No.	PD	d1	L	L1	Balls
HWC004-041	30	4	40	3.95	120	HWC004-100	50	4	50	4.25	224
HWC004-042			45		140	HWC004-101			65		308
HWC004-043			50		160	HWC004-102			80		392
HWC004-044			55		180	HWC004-103			95		476
HWC004-045			70		240	HWC004-104			105		532
HWC004-046			80		280	HWC004-105			120		616
HWC004-047			95		340	HWC004-106			140		728
HWC004-048			105		380	HWC004-107			160		840
HWC004-049			120		440	HWC004-108			180		952
HWC004-050			140		520	HWC004-109			200		1064
HWC004-051			160		600	HWC004-110			240		1288
HWC004-052	32	4	40	3.95	120						
HWC004-053			45		140						
HWC004-054			50		160						
HWC004-055			55		180						
HWC004-056			70		240						
HWC004-057			80		280						
HWC004-058			95		340						
HWC004-059			105		380						
HWC004-060			120		440						
HWC004-061			140		520						
HWC004-062			160		600						
HWC004-063	38	4	45	3.95	168						
HWC004-064			50		192						
HWC004-065			55		216						
HWC004-066			65		264						
HWC004-067			80		336						
HWC004-068			95		408						
HWC004-069			105		456						
HWC004-070			120		528						
HWC004-071			140		624						
HWC004-072			160		720						
HWC004-073			180		816						
HWC004-074			200		912						
HWC004-075			240		1104						
HWC004-076	40	4	45	3.95	168						
HWC004-077			50		192						
HWC004-078			55		216						
HWC004-079			65		264						
HWC004-080			80		336						
HWC004-081			95		408						
HWC004-082			105		456						
HWC004-083			120		528						
HWC004-084			140		624						
HWC004-085			160		720						
HWC004-086			180		816						
HWC004-087			200		912						
HWC004-088			240		1104						
HWC004-089	48	4	50	4.25	224						
HWC004-090			65		308						
HWC004-091			80		392						
HWC004-092			95		476						
HWC004-093			105		532						
HWC004-094			120		616						
HWC004-095			140		728						
HWC004-096			160		840						
HWC004-097			180		952						
HWC004-098			200		1064						
HWC004-099			240		1288						

Precision Guide Pin-Head Type
精密卸料板導柱-肩型

HWP004



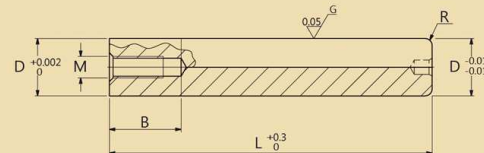
- Roundness 1.5µm
- Concentricity 3µm
- Material SKD11 (1.2344)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 3µm
- 材質 工具鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 交貨日 7 個工作日

Order No.	B	R	D	L	Order No.	B	R	D	L
HWP004-001	13	1.0	10	50	HWP004-024	25	2.0	20	70
HWP004-002			60		HWP004-025			80	
HWP004-003			70		HWP004-026			90	
HWP004-004			80		HWP004-027			100	
HWP004-005			90		HWP004-028			110	
HWP004-006			100		HWP004-029			120	
HWP004-007	16	1.5	13	50	HWP004-030			130	
HWP004-008			60		HWP004-031			140	
HWP004-009			70						
HWP004-010			80						
HWP004-011			90						
HWP004-012			100						
HWP004-013			110						
HWP004-014			120						
HWP004-015	20	1.5	16	60					
HWP004-016			70						
HWP004-017			80						
HWP004-018			90						
HWP004-019			100						
HWP004-020			110						
HWP004-021			120						
HWP004-022			130						
HWP004-023			140						

Precision Guide Pin-Straight Type
精密卸料板導柱-直型

HWP005



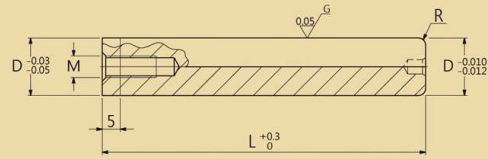
- Roundness 1.5µm
- Concentricity 3µm
- Material SKD11 (1.2344)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 3µm
- 材質 工具鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 交貨日 7 個工作日

Order No.	B	MxL	R	D	L	Order No.	B	MxL	R	D	L
HWP005-001	13	M5x12	1.0	10	50	HWP005-024	25	M8x20	2.0	20	70
HWP005-002				60		HWP005-025				80	
HWP005-003				70		HWP005-026				90	
HWP005-004				80		HWP005-027				100	
HWP005-005				90		HWP005-028				110	
HWP005-006				100		HWP005-029				120	
HWP005-007	16	M6x15	1.5	13	50	HWP005-030				130	
HWP005-008				60		HWP005-031				140	
HWP005-009				70							
HWP005-010				80							
HWP005-011				90							
HWP005-012				100							
HWP005-013				110							
HWP005-014				120							
HWP005-015	20	M6x15	1.5	16	60						
HWP005-016				70							
HWP005-017				80							
HWP005-018				90							
HWP005-019				100							
HWP005-020				110							
HWP005-021				120							
HWP005-022				130							
HWP005-023				140							

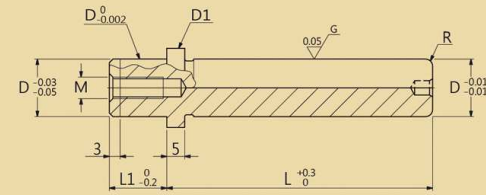
Precision Guide Pin-Straight Type
精密卸料板導柱-直型

HWP006



Precision Guide Pin-Removable Type
精密卸料板導柱-快換型

HWP007



- Roundness 1.5µm
- Concentricity 3µm
- Material SKD11 (1.2344)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 3µm
- 材質 工具鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 交貨日 7 個工作日

Order No.	MxL	R	D	L
HWP006-001	M5x12	1.0	10	40
HWP006-002				50
HWP006-003				60
HWP006-004				70
HWP006-005				80
HWP006-006				90
HWP006-007				100
HWP006-008	M6x15	1.5	13	50
HWP006-009				60
HWP006-010				70
HWP006-011				80
HWP006-012				90
HWP006-013				100
HWP006-014				110
HWP006-015				120
HWP006-016	M6x15	1.5	16	50
HWP006-017				60
HWP006-018				70
HWP006-019				80
HWP006-020				90
HWP006-021				100
HWP006-022				110
HWP006-023				120
HWP006-024				130
HWP006-025				140

Order No.	MxL	R	D	L
HWP006-026	M8x20	2.0	20	60
HWP006-027				70
HWP006-028				80
HWP006-029				90
HWP006-030				100
HWP006-031				110
HWP006-032				120
HWP006-033				130
HWP006-034				140

- Roundness 1.5µm
- Concentricity 3µm
- Material SKD11 (1.2344)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Delivery 7 Working Days

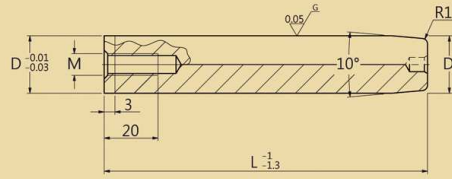
- 真圓度 1.5µm
- 同心(軸)度 3µm
- 材質 工具鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 交貨日 7 個工作日

Order No.	MxL	R	D	D1	L	L1
HWP007-001	M5x12	1.0	10	16	30	8
HWP007-002					40	
HWP007-003					50	
HWP007-004					60	
HWP007-005					70	
HWP007-006					80	
HWP007-007	M6x15	1.5	13	20	40	10
HWP007-008					50	
HWP007-009					60	
HWP007-010					70	
HWP007-011					80	
HWP007-012					90	
HWP007-013					100	
HWP007-014	M6x15	1.5	16	23	40	10
HWP007-015					50	
HWP007-016					60	
HWP007-017					70	
HWP007-018					80	
HWP007-019					90	
HWP007-020					100	
HWP007-021					110	
HWP007-022					120	

Order No.	MxL	R	D	D1	L	L1
HWP007-023	M8x20	2.0	20	27	50	13
HWP007-024					60	
HWP007-025					70	
HWP007-026					80	
HWP007-027					90	
HWP007-028					100	
HWP007-029					110	
HWP007-030					120	

Precision Guide Pin-Straight Type
精密卸料板導柱-直型

HWP008



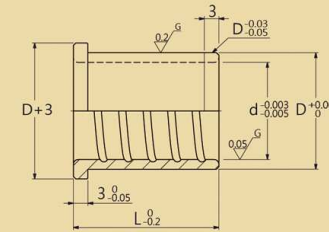
- Roundness 1.5µm
- Concentricity 3µm
- Material SUJ2 (1.3505)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Surface Treatment Electroplating
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 3µm
- 材質 軸承鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 表面處理 電鍍
- 交貨日 7 個工作日

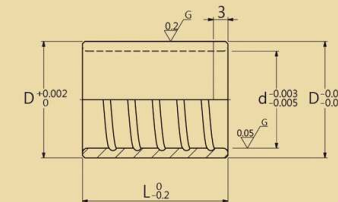
Order No.	M	D	TOL.	L	Order No.	M	D	TOL.	L
HWP008-001	M6x1.0	13	$\begin{smallmatrix} 0 \\ -0.003 \end{smallmatrix}$	60	HWP008-024	M8x1.25	22	$\begin{smallmatrix} +0.001 \\ -0.002 \end{smallmatrix}$	90
HWP008-002				70	HWP008-025				100
HWP008-003				80	HWP008-026				110
HWP008-004				90	HWP008-027				120
HWP008-005				100	HWP008-028				150
HWP008-006				110	HWP008-029	M8x1.25	25	$\begin{smallmatrix} +0.001 \\ -0.002 \end{smallmatrix}$	100
HWP008-007				120	HWP008-030				110
HWP008-008	M8x1.25	16	$\begin{smallmatrix} 0 \\ -0.003 \end{smallmatrix}$	60	HWP008-031				120
HWP008-009				70	HWP008-032				150
HWP008-010				80	HWP008-033				180
HWP008-011				90					
HWP008-012				100					
HWP008-013				110					
HWP008-014				120					
HWP008-015				150					
HWP008-016	M8x1.25	19	$\begin{smallmatrix} +0.001 \\ -0.002 \end{smallmatrix}$	60					
HWP008-017				70					
HWP008-018				80					
HWP008-019				90					
HWP008-020				100					
HWP008-021				110					
HWP008-022				120					
HWP008-023				150					

Precision Guide Bushing-Head and Straight Type
精密卸料板導套-肩/直型

HWB004



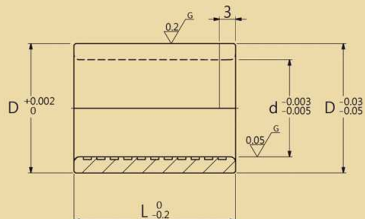
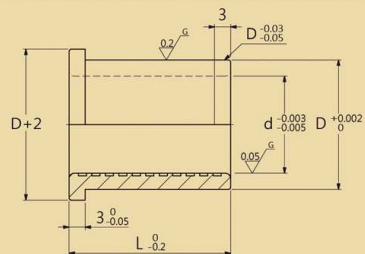
HWB005



- Roundness 1.5µm
- Concentricity 5µm
- Material SUJ2 (1.3505)
- Heat Treatment Induction Hardened
- Cryogenic Treatment YES
- Hardness HRC62 ±2
- Surface Treatment Blackening
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 5µm
- 材質 軸承鋼
- 熱處理 整體淬火
- 深冷處理 有
- 硬度 HRC62 ±2
- 表面處理 染黑(黑色氧化)
- 交貨日 7 個工作日

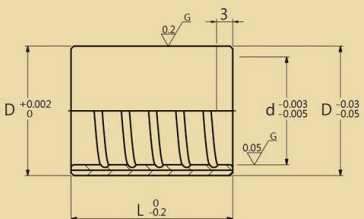
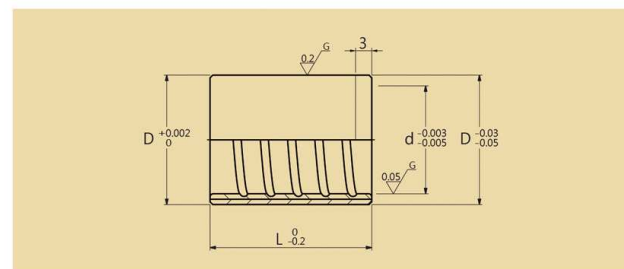
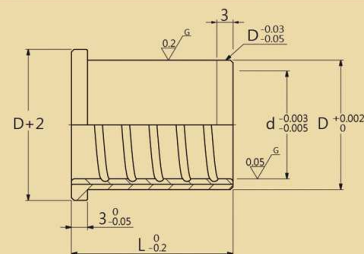
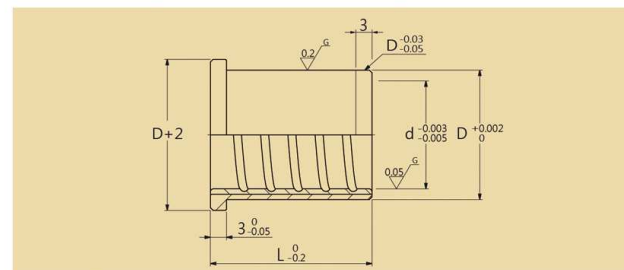
Order No.	D	d	L	Order No.	D	d	L
HWB004-001	14	10	10	HWB005-001	14	10	10
HWB004-002			13	HWB005-002			13
HWB004-003			16	HWB005-003			16
HWB004-004			20	HWB005-004			20
HWB004-005			22	HWB005-005			22
HWB004-006			25	HWB005-006			25
HWB004-007	18	13	13	HWB005-007	18	13	13
HWB004-008			16	HWB005-008			16
HWB004-009			20	HWB005-009			20
HWB004-010			22	HWB005-010			22
HWB004-011			25	HWB005-011			25
HWB004-012			30	HWB005-012			30
HWB004-013	22	16	16	HWB005-013	22	16	16
HWB004-014			20	HWB005-014			20
HWB004-015			22	HWB005-015			22
HWB004-016			25	HWB005-016			25
HWB004-017			30	HWB005-017			30
HWB004-018			35	HWB005-018			35
HWB004-019	25	20	20	HWB005-019	25	20	20
HWB004-020			22	HWB005-020			22
HWB004-021			25	HWB005-021			25
HWB004-022			30	HWB005-022			30
HWB004-023			35	HWB005-023			35



-Roundness 1.5μm
-Concentricity 5μm
-Material FC250+MoS2
-Delivery 7 Working Days

-真圓度 1.5μm
-同心(軸)度 5μm
-材質 鑄鐵+二硫化鉬
-交貨日 7 個工作日

Order No.	D	d	L	Order No.	D	d	L
HWB006-001	16	10	10	HWB007-001	16	10	10
HWB006-002		13		HWB007-002		13	
HWB006-003		16		HWB007-003		16	
HWB006-004		20		HWB007-004		20	
HWB006-005		22		HWB007-005		22	
HWB006-006		25		HWB007-006		25	
HWB006-007	20	13	13	HWB007-007	20	13	13
HWB006-008		16		HWB007-008		16	
HWB006-009		20		HWB007-009		20	
HWB006-010		22		HWB007-010		22	
HWB006-011		25		HWB007-011		25	
HWB006-012		30		HWB007-012		30	
HWB006-013	24	16	16	HWB007-013	24	16	16
HWB006-014		20		HWB007-014		20	
HWB006-015		22		HWB007-015		22	
HWB006-016		25		HWB007-016		25	
HWB006-017		30		HWB007-017		30	
HWB006-018		35		HWB007-018		35	
HWB006-019	28	20	20	HWB007-019	28	20	20
HWB006-020		22		HWB007-020		22	
HWB006-021		25		HWB007-021		25	
HWB006-022		30		HWB007-022		30	
HWB006-023		35		HWB007-023		35	

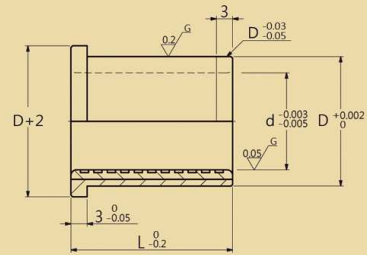


-Roundness 1.5μm
-Concentricity 5μm
-Material Steel with Bronze Coated Internal Bore
-Hardness HRC45
-Delivery 7 Working Days

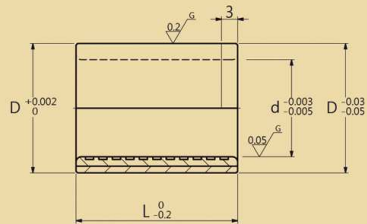
-真圓度 1.5μm
-同心(軸)度 5μm
-材質 鋼鐵合金
-硬度 HRC45
-交貨日 7 個工作日

Order No.	D	d	L	Order No.	D	d	L
HWB008-001	16	10	10	HWB009-001	16	10	10
HWB008-002		13		HWB009-002		13	
HWB008-003		16		HWB009-003		16	
HWB008-004		20		HWB009-004		20	
HWB008-005	20	13	13	HWB009-005	20	13	13
HWB008-006		16		HWB009-006		16	
HWB008-007		20		HWB009-007		20	
HWB008-008		25		HWB009-008		25	
HWB008-009	24	16	16	HWB009-009	24	16	16
HWB008-010		20		HWB009-010		20	
HWB008-011		25		HWB009-011		25	
HWB008-012		30		HWB009-012		30	
HWB008-013	28	20	20	HWB009-013	28	20	20
HWB008-014		25		HWB009-014		25	
HWB008-015		30		HWB009-015		30	

HWB010



HWB011



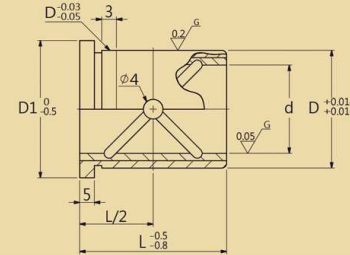
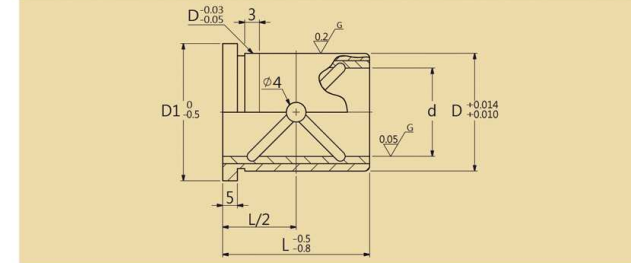
- Roundness 1.5µm
- Concentricity 5µm
- Material Steel with Bronze Coated Internal Bore+MoS2
- Hardness HRC45
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 5µm
- 材質 銅鐵合金+二硫化鉬
- 硬度 HRC45
- 交貨日 7 個工作日

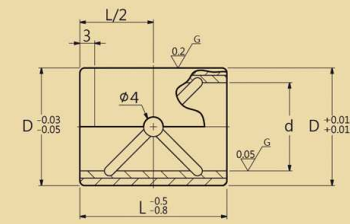
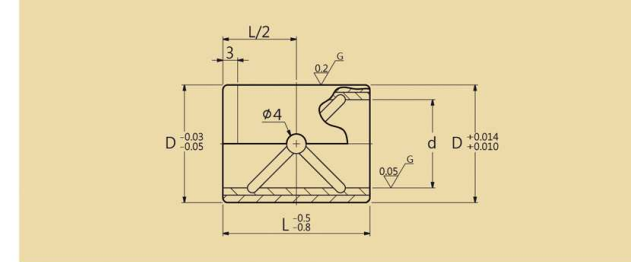
Order No.	D	d	L
HWB010-001	20	13	13
HWB010-002			16
HWB010-003			20
HWB010-004			25
HWB010-005	24	16	16
HWB010-006			20
HWB010-007			25
HWB010-008			30
HWB010-009	28	20	20
HWB010-010			25
HWB010-011			30

Order No.	D	d	L
HWB011-001	20	13	13
HWB011-002			16
HWB011-003			20
HWB011-004			25
HWB011-005	24	16	16
HWB011-006			20
HWB011-007			25
HWB011-008			30
HWB011-009	28	20	20
HWB011-010			25
HWB011-011			30

HWB012



HWB013



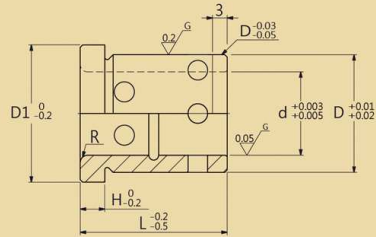
- Roundness 1.5µm
- Concentricity 5µm
- Material Steel with Bronze Coated Internal Bore
- Hardness HRC45
- Delivery 7 Working Days

- 真圓度 1.5µm
- 同心(軸)度 5µm
- 材質 銅鐵合金
- 硬度 HRC45
- 交貨日 7 個工作日

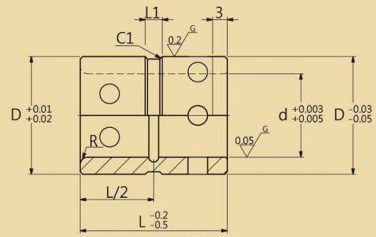
Order No.	D	D1	d	TOL.	L
HWB012-001	22	28	13	+0.007 +0.004	16
HWB012-002					19
HWB012-003					22
HWB012-004					25
HWB012-005	25	31	16	+0.007 +0.004	16
HWB012-006					19
HWB012-007					22
HWB012-008					25
HWB012-009	28	34	19	+0.007 +0.004	19
HWB012-010					22
HWB012-011					25
HWB012-012	35	41	22	+0.009 +0.006	22
HWB012-013					25
HWB012-014					28
HWB012-015	38	44	25	+0.009 +0.006	22
HWB012-016					25
HWB012-017					28

Order No.	D	d	TOL.	L
HWB013-001	22	13	+0.007 +0.004	16
HWB013-002				19
HWB013-003				22
HWB013-004				25
HWB013-005	25	16	+0.007 +0.004	16
HWB013-006				19
HWB013-007				22
HWB013-008				25
HWB013-009	28	19	+0.007 +0.004	19
HWB013-010				22
HWB013-011				25
HWB013-012	35	22	+0.009 +0.006	22
HWB013-013				25
HWB013-014				28
HWB013-015	38	25	+0.009 +0.006	22
HWB013-016				25
HWB013-017				28

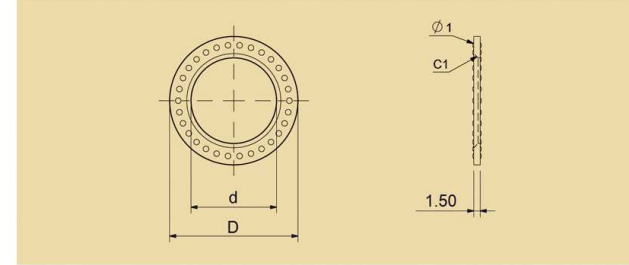
HWB014



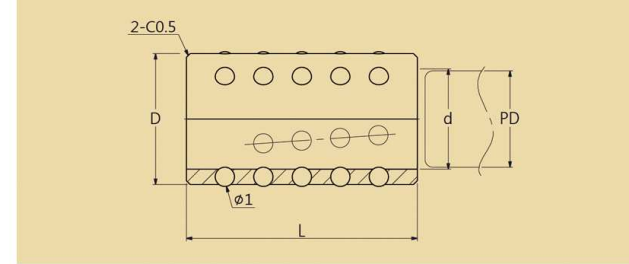
HWB015



HWA004



HWC005



-Roundness 1.5µm
-Concentricity 5µm
-Material Brass+Graphite
-Delivery 7 Working Days

-真圓度 1.5µm
-同心(軸)度 5µm
-材質 高力黃銅+石墨
-交貨日 7 個工作日

Order No.	R	D	D1	d	L	Order No.	R	D	d	L	L1
HWB014-001	1.5	20	24	13	13	HWB015-001	1.5	20	13	13	3
HWB014-002					15	HWB015-002				15	
HWB014-003					20	HWB015-003				20	
HWB014-004					25	HWB015-004				25	
HWB014-005	1.5	25	30	16	15	HWB015-005	1.5	25	16	15	4
HWB014-006					20	HWB015-006				20	
HWB014-007					25	HWB015-007				25	
HWB014-008					30	HWB015-008				30	
HWB014-009	2	30	35	20	15	HWB015-009	2	30	20	15	4
HWB014-010					20	HWB015-010				20	
HWB014-011					25	HWB015-011				25	
HWB014-012					30	HWB015-012				30	
HWB014-013					35	HWB015-013				35	
HWB014-014					40	HWB015-014				40	
HWB014-015	2	35	40	25	20	HWB015-015	2	35	25	20	5
HWB014-016					25	HWB015-016				25	
HWB014-017					30	HWB015-017				30	
HWB014-018					35	HWB015-018				35	
HWB014-019					40	HWB015-019				40	

-Material Brass-Cage
-Delivery SUJ2 (1.3505)-Balls 7 Working Days

-材質 銅-保持器
-交貨日 軸承鋼-鋼球 7 個工作日

Order No.	D	d	Balls	Order No.	PD	D	d	L	Balls
HWA004-001	30.1	19.9	30	HWC005-001	5	6.8	5.2	10	72
HWA004-002	34.1	26.7	30	HWC005-002				15	144
HWA004-003	39.4	31.9	40	HWC005-003				20	198
				HWC005-004	6	7.8	6.2	10	72
				HWC005-005				15	144
				HWC005-006				20	198
				HWC005-007	8	9.8	8.2	10	96
				HWC005-008				15	228
				HWC005-009				20	264
				HWC005-010				30	432
				HWC005-011	10	11.8	10.2	15	266
				HWC005-012				20	308
				HWC005-013				25	392
				HWC005-014				30	504

