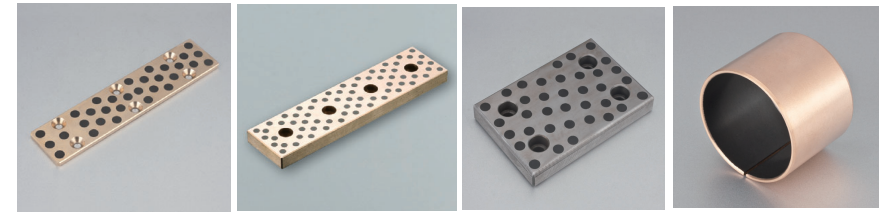
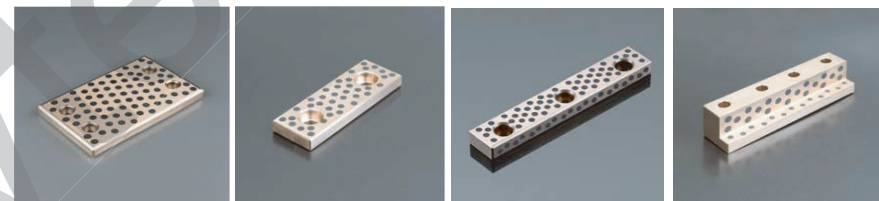


Самосмазывающийся пластины и втулки



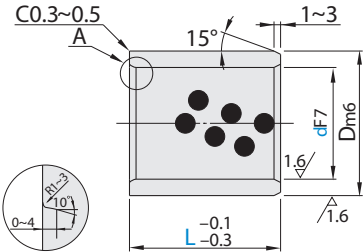
Втулки самосмазывающиеся
(латунь, прямые, стандартные)

Материал: латунный сплав,
графитовые вставки



Misumi: MPBZ
Sankyo: SOB & SPB
Fibro: 2052.70.

Order: d x L = Qty



Guide bush, Bronze with solid lubricant

Part Number		L	Dm6	
Type	df7			
MPBZ SOB / SPB 2052.70.	5 +0.022 +0.010	8 9 10 12 15	9	+0.015 +0.006
	6	8 9 10 12 15 16 19 20	10	
	8 +0.028 +0.013	8 9 10 12 15 16 19 20 25	12	
	10	8 9 10 12 15 16 19 20 25 30	14	+0.018 +0.007
	12	8 9 10 12 15 16 19 20 25 30 35	18	
	13	9 10 12 15 16 19 20 25 30 35	19	
	15 +0.034 +0.016	9 10 12 15 16 19 20 25 30 35 40	21	
	16	9 10 12 15 16 19 20 25 30 35 40	22	
	18	9 10 12 15 16 19 20 25 30 35 40	24	+0.021 +0.008
	20	9 10 12 15 16 19 20 25 30 35 40 50 60	28	
	20A	9 10 12 15 16 19 20 25 30 35 40 50	30	
	25 +0.041 +0.020	12 15 16 19 20 25 30 35 40 50 60	33	
	25A	12 15 16 19 20 25 30 35 40 50 60	35	
	30	12 15 16 19 20 25 30 35 40 50 60 70	38	+0.025 +0.009
	35	20 25 30 35 40 50 60 70	44	
	40 +0.050 +0.025	20 25 30 35 40 50 60 70 80	50	
	50	30 35 40 50 60 70 80	62	+0.030 +0.011
	60 +0.060 +0.030	50 60 70 80	75	
	80	60 70 80	96	+0.035 +0.013
	100 +0.071 +0.036	80 100	120	



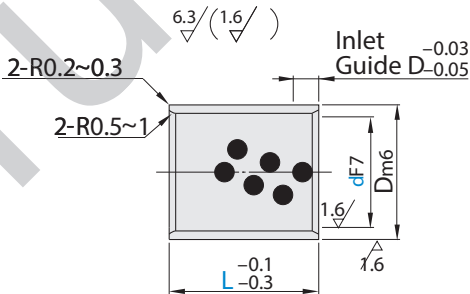
Втулки самосмазывающиеся
(латунь, прямые, стандартные)

Материал: высокопрочный латунный сплав,
графитовые вставки



MPBZU
Thin Type

Order: d x L = Qty



Guide bush, Bronze with solid lubricant

Part Number		L	Dm6		Thickness (N)
Type	df7				
MPBZU	5 +0.022 +0.010	8 10 12	7		1
	6	8 10 12 15 16	8	+0.015 +0.006	
	8 +0.028 +0.013	8 10 12 15 16 20	10		
	10	8 10 12 15 16 20 25	12		
	12	10 12 15 16 20 25	15	+0.018 +0.007	1.5
	13	10 12 15 16 20 25	16		
	15 +0.034 +0.016	10 12 15 16 20 25 30	18		
	16	10 12 15 16 20 25 30	20		
	18	12 15 16 20 25 30	22	+0.021 +0.008	2
	20	15 16 20 25 30 40	24		
	25 +0.041 +0.020	15 16 20 25 30 40	29		
	30	15 16 20 25 30 40	34		
	35	20 25 30 40	40	+0.025 +0.009	2.5
	40 +0.050 +0.025	20 25 30 40 50	45		
	50	30 40 50	55	+0.030 +0.011	



Втулки самосмазывающиеся
(латунь, с буртиком)

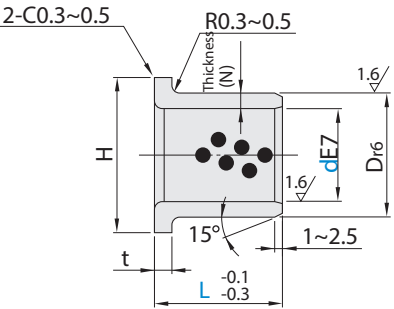
Материал: высокопрочный латунный сплав,
графитовые вставки

Standard with Shoulder



Misumi: MPFZ
Fibro:2085.71.

Order: d x L = Qty



Guide bush with collar, Bronze with solid lubricant

Part Number			L	MPFZ				
Type	dE7			D6	Thickness (N)	H	0 t-0.1	
MPFZ 2085.71.	5	+0.032	10 12	9	+0.028 +0.019	2	14	2
	6	+0.020	10 12 15	10			16	
	8	+0.040	10 12 15 20	12			20	
	10	+0.025	10 12 15 20 (25) (30)	14	+0.034 +0.023		22	
	12	+0.050 +0.032	10 12 15 20 25 30	18			3	
	13		(10) 12 15 20 (25) (30)	19	26			
	15		10 12 15 20 25 (30)	21	+0.041 +0.028	28		
	16		12 15 20 25 30 (35) (40)	22		29		
	18		(15) (20) (25) (30) (35) (40)	24		32		
	20		+0.061 +0.040	15 20 25 30 (35) 40	30	5	40	5
	25			(15) (20) (25) 30 (35) 40 50	35		45	
	30	(20) (25) 30 (35) 40 50		40	+0.050 +0.034		50	
	35	(20) (25) (30) (35) (40) (50)		45			60	
	40	+0.075 +0.050	(20) (25) (30) (35) (40) (50)	50			65	
	50		(30) (35) (40) (50) (60)	60	+0.060 +0.041		75	



Втулки самосмазывающиеся
(латунь, с буртиком)

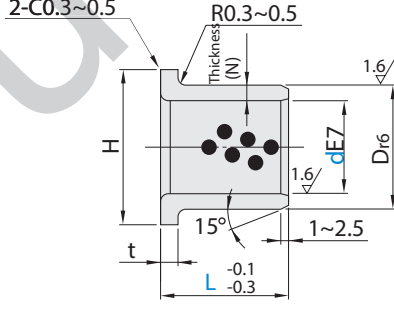
Материал: высокопрочный латунный сплав,
графитовые вставки

Standard with Shoulder & Thin Wall



Misumi: MPFZU
Thin Type

Order: d x L = Qty



Guide bush with collar, Bronze with solid lubricant

Part Number		L				MPFZU					
Type	d7					Dr6		Thickness (N)	H	0 t.0.1	
MPFZU	5	+0.032	10 12				7	+0.028 +0.019	1	11	2
	6	+0.020	10 12 15				8			12	
	8	+0.040	10 12 15 20				10			14	
	10	+0.025	10 12 15 20				12	16			
	12		10 12 15 20 25 30				15	+0.034 +0.023	1.5	21	3
	13		12 15 20				16			22	
	15		+0.050 +0.032	10 12 15 20 25						18	
	16		12 15 20 25 30				20	+0.041 +0.028	2	26	
	20	+0.061 +0.040	15 20 25 30 40				24	+0.041 +0.028	2	32	4
	25		30 40 50				29			37	
	30		30 40 50				34			+0.050 +0.034	

工厂展示 FACTORY TOUR



Втулки самосмазывающиеся
(латунь, с буртиком)

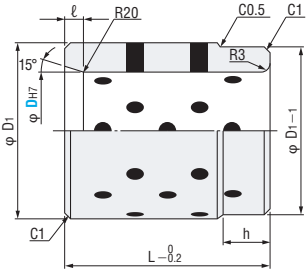
Standard with Shoulder & Thin Wall

Материал: высокопрочный латунный сплав,
графитовые вставки



GBF

Order: d x L = Qty



D1		DH7		L	h	ℓ	Catalog No.	
							Type	D
50	± 0.008	30	+0.021 0	50	10	5	GBF(Cast type)	30
60	± 0.0095	40	+0.025 0	60				40
70		50		75	15	50		
80	± 0.011	60	+0.030 0	90	20	10		60
100		80		120	25			80
120	± 0.013	100	+0.035 0	150				100



Втулки самосмазывающиеся
(латунь)

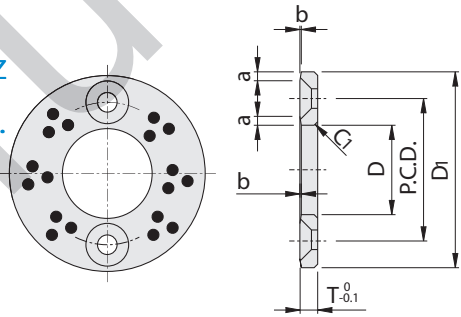
Standard Type

Материал: высокопрочный латунный сплав,
графитовые вставки



Misum: MPWZ

Fibro: 2053.70.



(Flat-Head Countersunk Screw)

Thrust washer, Bronze with solid lubricant

Part Number		T	Tol.	D	Tol.	D ₁	Mounting Hole			
Type	No.						P.C.D.	Qty	MPWZ Flat-Head Countersunk Screw	
MPWZ 2053.70	6	3(4)	0 -0.1	6.2	+0.2 +0.1	25	15	2	M3	
	8			8.2		28	18			
	10			10.2		30	20			
	12			12.2		40	28			
	13			13.2						
	15			15.2						
	16			16.2		50	35			
	18			18.2						
	20			20.2						
	25	5		25.2		55	40		M5	
	30			30.2		60	45			
	35			35.2		70	50			
	40			40.2		80	60			
	50	7		50.3		100	75	4	M6	
		8								



Втулки самосмазывающиеся (бронза)

Материал: специальный бронзовый сплав,
Допустимая температура: 40–150 °C
Комплектующие: винты с шестигранником — 2–4 шт.

Standard Flanged (Bronze) / with Threaded Housing (Built-In Copper Alloy)

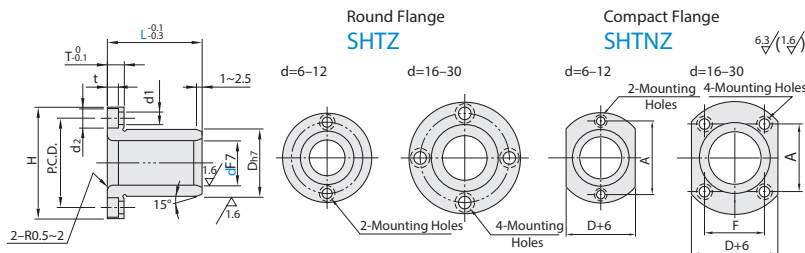
Round Flange
SHTZ



Compact Flange
SHTNZ



Order: d x L = Qty



Part Number		L	D _h	H	T	t	d1	d2	P.C.D.	F	A	Accessories Hex Socket Low Head Cap Screw
Type	d _h											
SHTZ SHTNZ	6	+0.022 +0.010	15	10	0 -0.015	25	4	2.2	3.5	6	17	M3-10 x 2
	8	+0.028	20 25	12	0	27	4	2.2	3.5	6	19	M3-10 x 2
	10	+0.013	25 30	14	0	29	4	2.2	3.5	6	21	M4-12 x 2
	12	+0.034	25 30	18	-0.018	36	5	3	4.5	7.5	26	M4-12 x 4
	16	+0.016	25 30 35 40	22	0	40	5	3	4.5	7.5	30	M4-12 x 4
	20		30 35 40 50	28	-0.021	49	6	3.7	5.5	9	38	M5-16 x 4
	25	+0.041 +0.020	30 35 40 50 60	33	0	54	6	3.7	5.5	9	43	M5-16 x 4
	30		35 40 50 60 70	38	-0.025	63	8	4.2	6.6	11	50	M6-20 x 4

Part Number Example	Part Number	L
	SHTZ16	25
	SHTNZ16	40

Round Flange
SHTZ



Compact Flange
SHTNZ

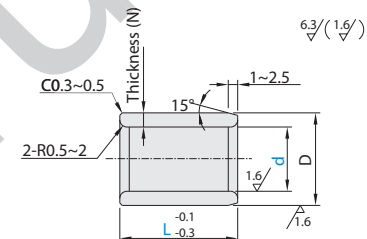


Straight / Flanged

SHBZ



Order: d x L = Qty

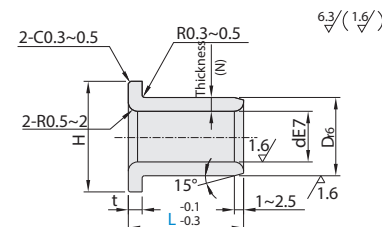


Part Number		L	D	Thickness (N)
Type	d			
SHBZ I.D. F7 O.D. m6	5	+0.022	8 10 12 15	9
	6	+0.010	8 10 12 15 20	10
	8	+0.028	8 10 12 15 20 25	12
	10	+0.013	8 10 12 15 20 25	14
	12		10 12 15 20 25	18
	13	+0.034	15 20	19
	15	+0.032	10 12 15 20 25	21
	16		10 12 15 20 25 30 40	22
	20		15 20 25 30 40 50	28
	25	+0.061	20 25 30 40 50	33
	30	+0.020	25 30 40 50 60	38
				4

SHFZ



Order: d x L = Qty



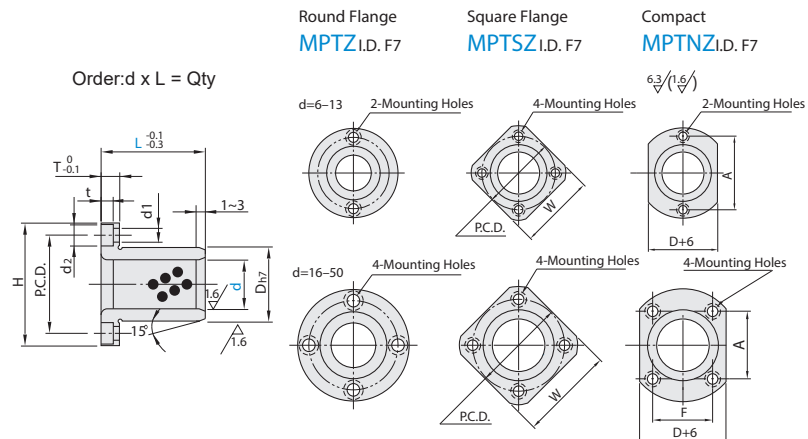
Part Number		L	D _h	Thickness (N)	H	0 t.0.1
Type	d _h					
SHFZ	5	+0.032	10 12	9	+0.028	14
	6	+0.020	10 12 15	10	+0.019	16
	8	+0.040	10 12 15 20	12	+0.034	20
	10	+0.025	10 12 15 20	14	+0.023	22
	12		10 12 15 20 25 30	18		25
	13	+0.050	12 15 20	19		26
	15	+0.032	10 12 15 20 25	21	+0.041	28
	16		12 15 20 25 30	22	+0.028	29
	20		15 20 25 30 40	30		40
	25	+0.061	30 40 50	35	+0.050	45
	30	+0.040	30 40 50	40	+0.034	50
						5

Втулки самосмазывающиеся с фланцем (латунь)

Материал: высокопрочный латунный сплав,
графитовые вставки



Order: d x L = Qty



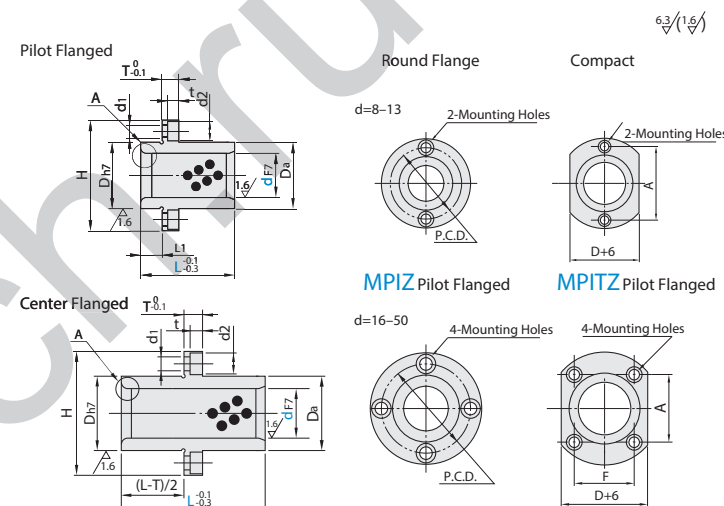
Part Number		L		Dh7		H	T	t	d1	d2	P.C.D.	W	F	A	Accessories: Hex Socket Low Head Cap Screw
Type	dF7														
I.D. F7 MPTZ MPTSZ MPTNZ	6	+0.022 +0.010	15 20	10	0 -0.015	25					17 20		17		M3-10 x 2 *(4)
	8	+0.028 +0.013	20 25	12	0 -0.018	27	4	2.2	3.5	6	19 22		19		
	10		20 25 30	14		29					21 23		21		
	12		20 25 30	18		36					26 28		26		M4-12 x 2 *(4)
	13	+0.034 +0.016	20 25 30 35	19		37	5	3	4.5	7.5	27 29		27		
	16		20 25 30 35 40	22	0 -0.021	40					30 31	18	24		M4-12 x 4
	20		25 30 35 40 50	28		49	6	3.7	5.5	9	38 38	22	31		M5-16 x 4
	25	+0.041 +0.020	30 35 40 50 60	33		54					43 42	25	35		M6-20 x 4
	30		35 40 50 60 70	38	0 -0.025	63	8	4.2	6.6	11	50 50	30	40		M6-20 x 4
	35		50 60 70	44		69					56 54	36	43		M8-25 x 4
	40	+0.050 +0.025	60 70 80	50		82	10	5.2	9	14	66 64	38	54		M8-25 x 4
	50		70 80 100	62	0 -0.030	94					78 73	50	60		



Pilot Flanged / Center Flanged / Flat-Head Countersunk Screw / Low Head Bolt



Part Number
MPIZ12 - 30
MPCZ16 - 30



Part Number		L		Dh7		Da	L1	H	T	t	d1	d2	P.C.D.	F	A	Accessories: Hex Socket Low Head Cap Screw
Type	dF7															
Center Flanged MPCZ MPCTZ	8	+0.028	20 (25)	12	0	11.5	5	27	4	2.2	3.5	6	19		19	M3-10 x 2 *(4)
	10	+0.013	25 30	14	-0.018	13.5		29					21		21	
	12		25 30	18		17.5	6	36	5	3	4.5	7.5	26		26	
	13	+0.034	(25) (30) 35	19		18.5		37					27		27	M4-12 x 2
	16	+0.016	25 30 35 40	22	0 -0.021	21.5		40					30	18	24	
	20		30 35 40 50	28		27.5	8	49	6	3.7	5.5	9	38	22	31	M4-12 x 4
	25	+0.041	(30) (35) (40) (50) 60	33		32.5		54					43	25	35	M5-16 x 4
	30	+0.020	(35) (40) (50) (60) 70	38	0	37.5	10	63	8	4.2	6.6	11	50	30	40	M6-20 x 4
	35		(50) 70	44	-0.025	43.5		69					56	36	43	M6-20 x 4
	40	+0.050	(60) (70) 80	50		49.5		82					66	38	54	M8-25 x 4
	50	+0.025	(70) 100	62	0 -0.025	61.5	13	94	10	5.2	9	14	78	50	60	

Order: d x L = Qty



Thrust Type



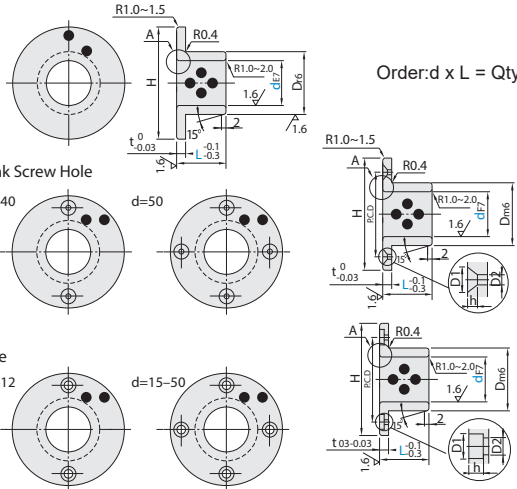
MPGZ
Standard



MPSZ
Flathead Countersunk Screw Hole



MPKZ
Low Head Screw Hole



Order: d x L = Qty

Part Number		L		Dm6		H	t
Type	df7						
MPGZ Standard	6	10	12	12	12	22	3
	8	10	12	15	14	25	
	10	10	12	15	16	30	
	12	10	12	15	18	35	
	13	12	15	20	19	40	
	15	12	15	20	21	45	5
	16	12	15	20	22	50	
	18	12	15	20	24	55	
	20	14	20	25	28	65	
	25	14	20	25	33	70	
	30	14	20	25	38	75	8
	35	20	25	30	44	80	
	40	20	25	30	50	90	
	50	25	30	35	62		
		30	35	40	60		

Part Number		L		Dm6		Mounting Hole		Mounting Hole		Accessories		t
Type	df7					P.C.D	d1	d2	h	P.C.D	d1	t
MPSZ Flathead Countersunk Screw Hole	6	10	12	10	+0.015	25	15			25	17	4
	8	12	15	12	+0.006	28	18			27	19	
	10	12	15	14	+0.018	30	20			29	21	
	12	12	15	18	+0.007	40	28	8.5	3.5	36	26	
	15	12	15	21						39	29	
MPKZ Low Head Screw Hole	16	12	15	22	+0.021	50	35			40	30	5
	18	12	15	24	+0.008					42	32	
	20	20	25	28						49	38	
	25	20	25	33						54	43	
	30	20	25	38	+0.025	55	40	13	6	63	50	
	35	20	25	44	+0.009	60	45			69	56	8
	40	20	25	50		70	52			78	62	
	50	25	30	62	+0.030	80	60	16	7	82	66	
		30	35	100	+0.011	100	75	16	7	94	78	
		30	35	45								

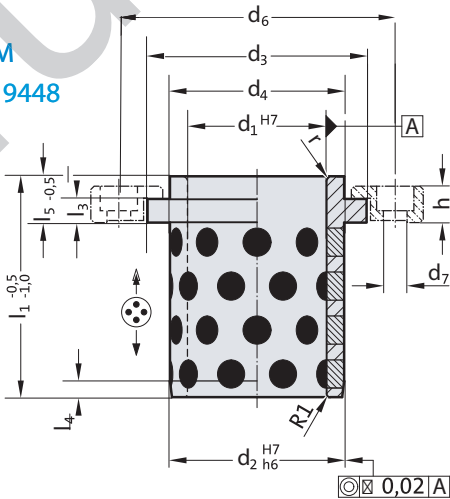


FIBRO



Fibro:2082.70.
Danly: Type-NM
DIN 9834 / ISO 9448

Order: d1 x L1 = Qty



2082.70. Guide bush with collar, Bronze with solid lubricant, DIN 9834/ISO 9448

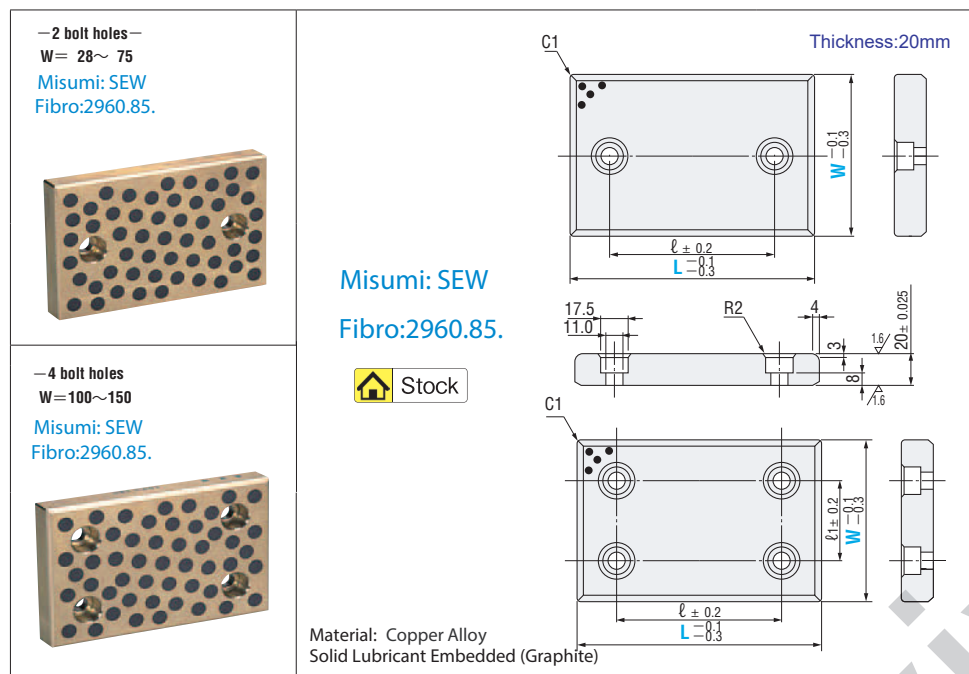
d1	24	25	30	32	38	40	48	50	60	63	80	100	125	160
d2	32	40	50	63	80	100	125	160	200	250	315	400	500	630
d3	40	50	63	80	100	125	160	200	250	315	400	500	630	800
d4	32	40	50	63	80	100	125	160	200	250	315	400	500	630
d6	58	66	79	89	123	143	168	203	243	283	354	440	540	660
d7	7	7	7	7	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
l1	40	50	63	71	80	100	125	160	200	250	315	400	500	630
l3	6.3	6.3	6.3	6.3	10	10	10	10	10	10	10	10	10	10
l4	3	4	5	6.3	8	10	12.5	16	16	16	16	16	16	16
l5	10	12	15	17	19	22	21	30	32	32	32	32	32	32
h	10	10	10	10	16	16	16	16	16	16	16	16	16	16
r	3	3	3	5	6	8	10	12	18	18	18	18	18	18



Пластина направляющая самосмазывающаяся (медный сплав, толщина — 22 мм, количество отверстий — 2 или 4)

Misumi: SEW
Fibro:2960.85.

Sliding pad, Bronze with solid lubricant



ℓ	Catalog No.	W	L
45	— 2 bolt holes — Misumi: SEW Fibro:2960.85.	28	75
50			100
100			150
100			200
45		38	75
50			100
100			150
100			200
45		48	75
50			100
100			150
100			200
45		58	75
50			100
100			150
100			200
45		75	75
50			100
100			150
100			200

ℓ	ℓ ₁	Catalog No.	W	L
50	50	— 4 bolt holes — Misumi: SEW Fibro:2960.85.	100	100
75				125
100				150
150				200
200				250
200	50		125	300
75				125
100				150
150				200
200				250
200	100		150	300
200				350
100		150		
150		200		
200		250		



Order

Catalog No.

W

—

L

SEW

75

—

125



Order

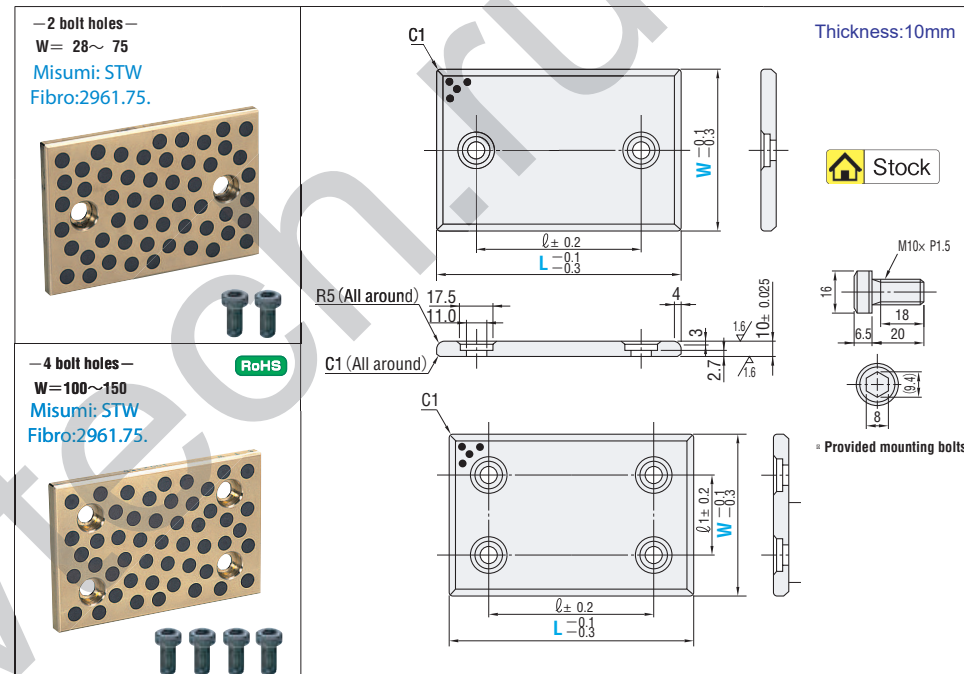
Catalog No.	W	L
SEW	75	125



Пластина направляющая самосмазывающаяся (медный сплав, толщина — 10 мм, количество отверстий — 2 или 4)

Misumi: STW
Fibro:2961.75.

Flat guide bar, Bronze with solid lubricant



ℓ	Catalog No.	W	L
45	— 2 bolt holes — Misumi: STW Fibro:2961.75.	28	75
50			100
100			150
100			200
45		38	75
50			100
100			150
100			200
45		48	75
50			100
100			150
100			200
45		58	75
50			100
100			150
100			200
45		75	75
50			100
100			150
100			200

ℓ	ℓ ₁	Catalog No.	W	L
50	50	— 4 bolt holes — Misumi: STW Fibro:2961.75.	100	100
75				125
100				150
150				200
200				250
100	50		125	150
150				200
200				250
100				100
150	200			



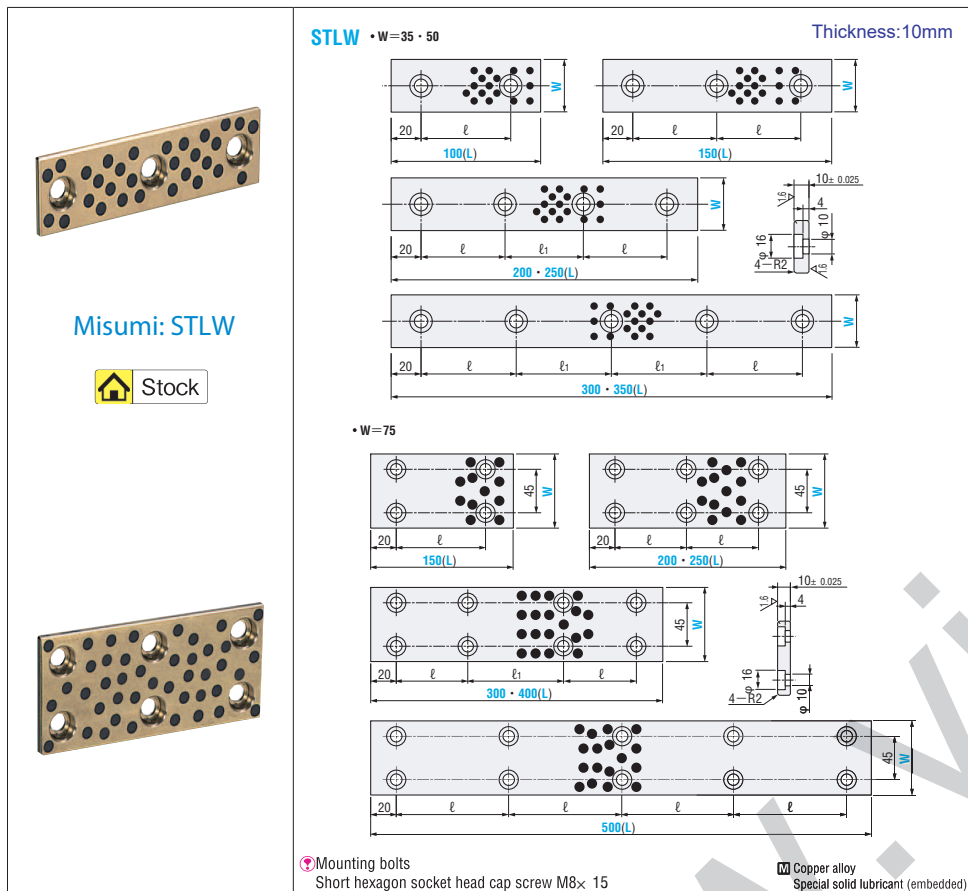
Order

Catalog No.	W	L
STW	75	100

Пластина направляющая самосмазывающаяся

(медный сплав, толщина — 10 мм, количество отверстий — 2, 3, 4, 5, 6, 8, 10)

Flat guide bar, Bronze with solid lubricant



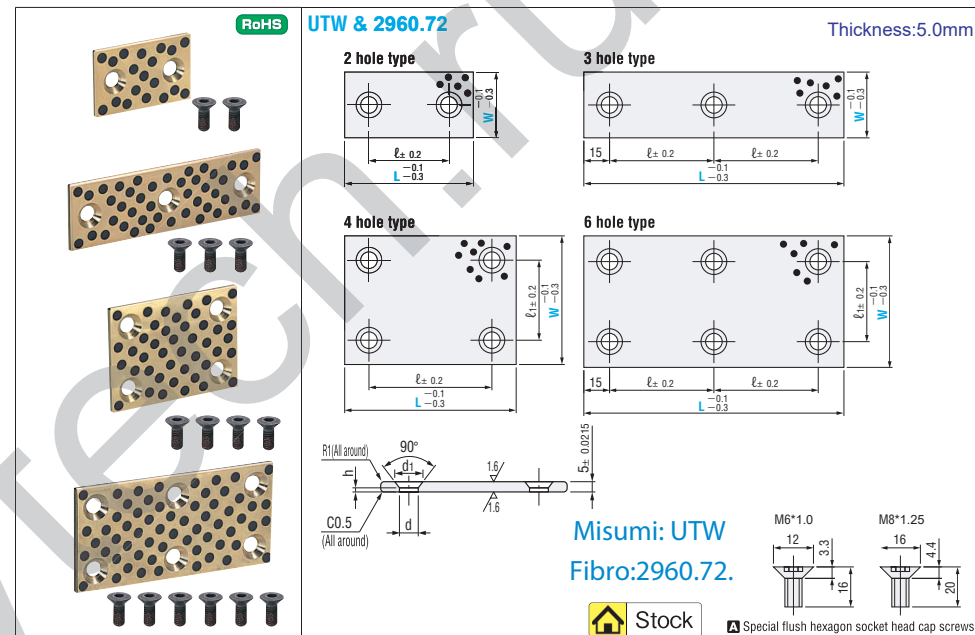
Location of mounting bolt	Qty. of mounting bolt	Catalog No.	W	(L)
ℓ	ℓ ₁			
60	—	2	35	100
55	—	3	35	150
70	50	4	35	200
65	70	5	35	250
80	65	5	35	300
60	75	5	35	350
55	—	2	50	100
70	50	3	50	150
65	70	4	50	200
80	65	4	50	250
110	75	4	50	300
80	—	6	75	150
105	—	6	75	200
85	90	8	75	250
120	120	8	75	300
115	—	10	75	400
				500

Пластина направляющая самосмазывающаяся тонкая

(медный сплав, толщина — 5 мм, количество отверстий — 2, 3, 4, 6)

Sliding pad, small dimension, Bronze with solid lubricant

MISUMI-UTW
Fibro:2960.72.

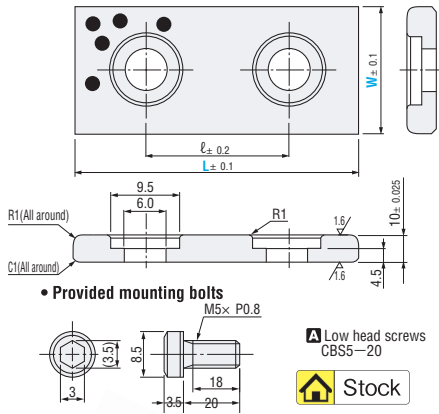


ℓ	ℓ ₁	d	d ₁	h	Mounting hole	Mounting bolt	Catalog No.	W	L
20	—	6.5	13.5	1.5	2 holes	M6		18	50
45	—								75
70	—								100
60	—								150
20	—				2 holes			28	50
45	—								75
70	—								100
60	—								150
20	—				3 holes			38	50
45	—								75
70	—								100
60	—								150
20	—				2 holes			48	50
45	—								75
70	—								100
95	—								125
60	—								150
45	—				3 holes			75	50
70	—								75
95	—								100
60	—								125
45	—				4 holes			75	50
70	—								75
95	—								100
60	—								125
45	—				6 holes			100	50
70	—								50
95	—								75
60	—								100

Catalog No.	W	L
UTW	75	100

Пластина направляющая самосмазывающаяся компактная
(медный сплав, толщина — 10 мм)

— COPPER ALLOY 10mm COMPACT TYPE — STS



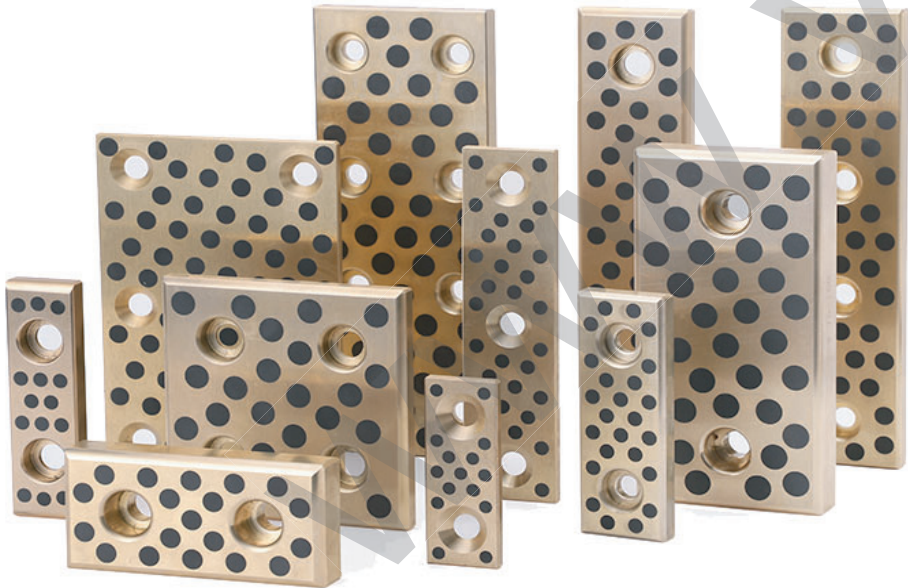
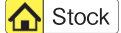
ℓ	Catalog No.	W	L
14	STS	15	30
20			40
30			50
50			75
14		18	30
20			40
30			50
50			75
14		22	30
20			40
30			50
50			75



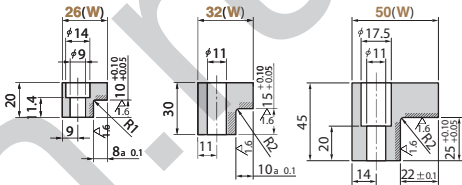
Order

Catalog No. **STS**

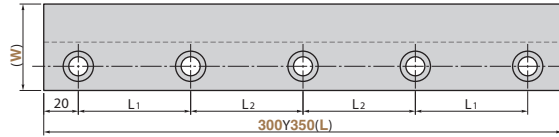
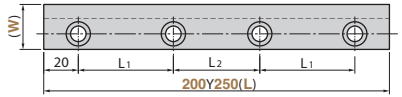
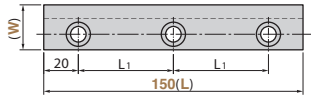
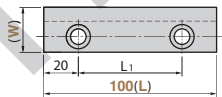
W **18** L **50**



Sankyo: SOL
Fibro:2962.70



W=32 is through-hole



Sliding Direction



Order

Catalog No. **SOL**

(W) **26** — (L) **100**

Bolt Position		Mounting Bolt		Catalog No.	(W)	(L)
L1	L2	Size	Quantity			
60	—	M8	2	SOL	26	100
55	50		3			150
55	50		4			200
60	—	M10	2	SOL	32	100
55	50		3			150
55	50		4			200
70	70	M10	4	SOL	50	250
55	50		4			200
70	70		4			250
65	65	M10	5	SOL	50	300
80	75		5			350

Пластина направляющая самосмазывающаяся (бронза, толщина — 10 мм, количество отверстий — 2, 3, 4, 5, 6, 8, 10)

Fibro:2961.70.

Angled guide gib, Bronze with solid lubricant

Fibro.2961.70.

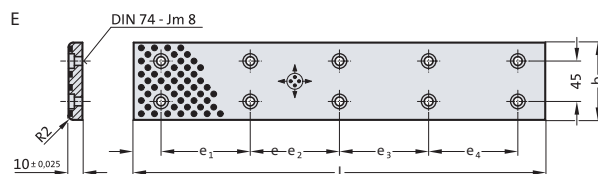
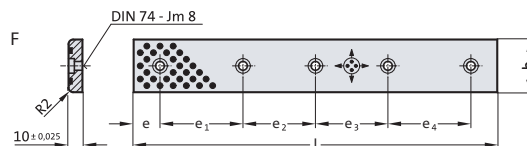
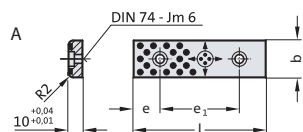


Material:
Bronze with solid lubricant, oilless lubricating

Execution:
Sliding faces ground.

Note:
Screws not included.

Fixing:
Use socket cap screws DIN 7984.



2961.70. Flat guide bar, Bronze with solid lubricant

Order No	Shape	b	l	e	e ₁	e ₂	e ₃	e ₄	Number of screw holes
2961.70.018.075	A	18	75	15	45	-	-	-	2
2961.70.018.100	A	18	100	25	50	-	-	-	2
2961.70.018.125	A	18	125	25	75	-	-	-	2
2961.70.018.150	A	18	150	25	100	-	-	-	2
2961.70.028.075	A	28	75	15	45	-	-	-	2
2961.70.028.100	A	28	100	25	50	-	-	-	2
2961.70.028.125	A	28	125	25	75	-	-	-	2
2961.70.028.150	A	28	150	25	100	-	-	-	2
2961.70.035.100	F	35	100	20	60	-	-	-	2
2961.70.035.150	F	35	150	20	55	55	-	-	3
2961.70.035.200	F	35	200	20	55	50	55	-	4
2961.70.035.250	F	35	250	20	70	70	70	-	4
2961.70.035.300	F	35	300	20	65	65	65	65	5
2961.70.035.350	F	35	350	20	80	75	75	80	5
2961.70.038.075	A	38	75	15	45	-	-	-	2
2961.70.038.100	A	38	100	25	50	-	-	-	2
2961.70.038.125	A	38	125	25	75	-	-	-	2
2961.70.038.150	A	38	150	25	100	-	-	-	2
2961.70.048.075	A	48	75	15	45	-	-	-	2
2961.70.048.100	A	48	100	25	50	-	-	-	2
2961.70.048.125	A	48	125	25	75	-	-	-	2
2961.70.048.150	A	48	150	25	100	-	-	-	2
2961.70.050.100	F	50	100	20	60	-	-	-	2
2961.70.050.150	F	50	150	20	55	55	-	-	3
2961.70.050.200	F	50	200	20	55	50	55	-	4
2961.70.050.250	F	50	250	20	70	70	70	-	4
2961.70.050.300	F	50	300	20	65	65	65	65	5
2961.70.050.350	F	50	350	20	80	75	75	80	5
2961.70.050.400	F	50	400	20	90	90	90	90	5
2961.70.075.150	E	75	150	20	110	-	-	-	4
2961.70.075.200	E	75	200	20	80	80	-	-	6
2961.70.075.250	E	75	250	20	105	105	-	-	6
2961.70.075.300	E	75	300	20	85	90	85	-	8
2961.70.075.400	E	75	400	20	120	120	120	-	8
2961.70.075.500	E	75	500	20	115	115	115	115	10

Пластина направляющая самосмазывающаяся (сталь FC250, толщина — 20 мм, количество отверстий — 2, 3, 4)

Материал: сталь FC250,
графитовые вставки

— 2 bolt holes —
MWF W = 28 ~ 75
PCWP



— 3 bolt holes —
MWF W = 75 & L = 300
PCWP



— 4 bolt holes —
MWF W = 100 ~ 200
PCWP

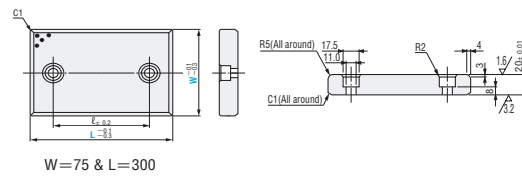


RoHS

RoHS

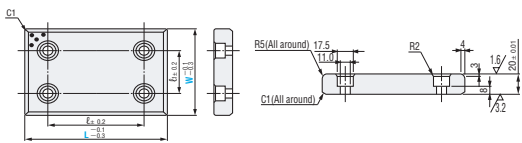
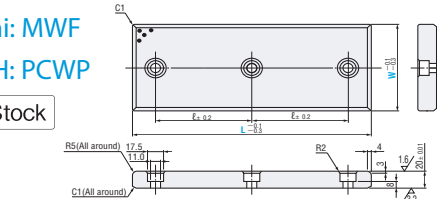
RoHS

Thickness: 20mm



Misumi: MWF
PUNCH: PCWP

Stock



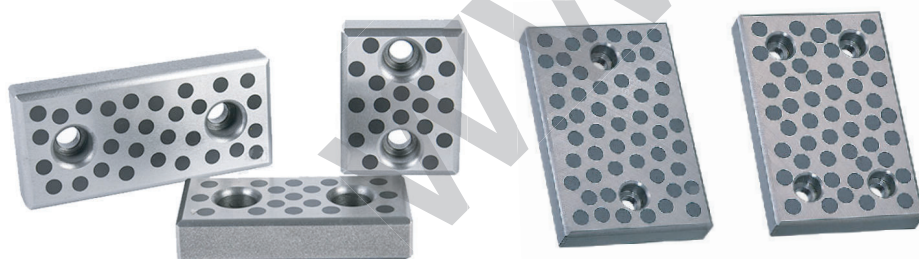
ℓ	Catalog No.	W	L
45	— 2 bolt holes — (※ 3 bolt holes) MWF PCWP	28	75
50			100
75			125
100			150
150			200
45		38	75
50			100
75			125
100			150
150			200
45		48	75
50			100
75			125
100			150
150			200
45		58	75
50			100
75			125
100			150
150			200
45		75	75
50			100
75			125
100			150
150			200
200			250
100※			300

ℓ	ℓ1	Catalog No.	W	L
50	50	— 4 bolt holes — MWF PCWP	100	100
75				125
100				150
150				200
200				250
200	50		125	300
75				125
100				150
150				200
200				250
200	100		150	300
100				150
150				200
200				250
200				300
150	150		200	150
200				200
250				250
				300
				300



Order

Catalog No. W — L
MWF 75 — 100



SHBZ-青铜直柱型



SHFZ-青铜肩型



SHTZ-青铜圆法兰型



SHTNZ-青铜对切法兰型



MPTZ-圆法兰



MPTSZ-方法兰



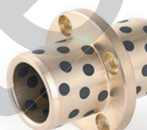
MPTNZ-切边法兰



MPITZ-嵌入切边法兰



MPCZ-中间圆法兰



MPCTZ-中间切边法兰



MPGZ-标准型

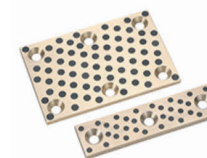


MPKZ-短头螺栓孔



T-Thickness

UTW(T5)



STW(T10)



SEW (T20)



STS (T10)



STLW(T10)



JSP (T10)



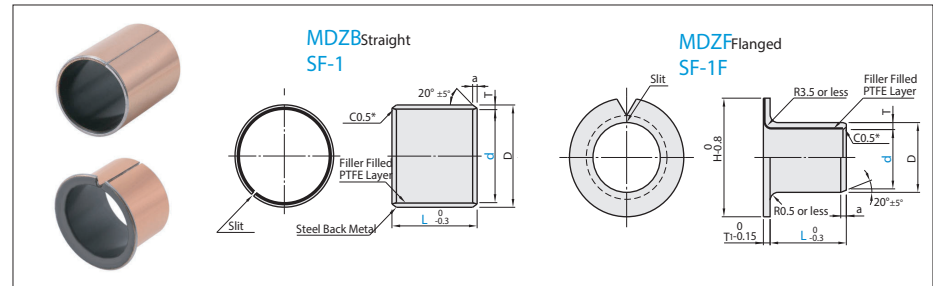
SOL



Special Size



Втулки самосмазывающиеся
(медный сплав, прямые / с буртиком)



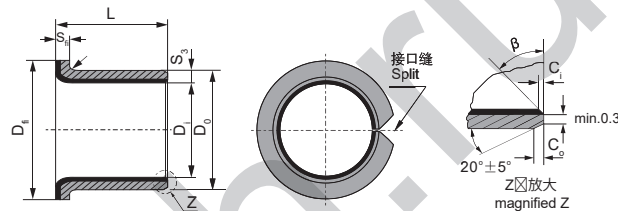
Part Number	L					MDZB		Part Number	L					MDZF				
						D	Tolerance							D	H	T/T _i	Tolerance	
Type	d							Type	d									
Straight MDZB	3	3	4	5	6	5	+0.047	Flanged MDZF	3	3		5	7	0.8	0 -0.025			
	4	3	4	5	6	6	+0.017		4	4	5	6	6			9		
	5	3	4	5	6	7			5	4	5	6	8			7	10	
	6	3	4	5	6	8	10		12	6	5	6	8			10	8	12
	7	5	6	8	10	12	8		+0.055	8	6	8	10	12		15	10	15
	8	5	6	8	10	12	15		10	10	6	8	10	12		15	12	18
	10	6	8	10	12	15	20		12	12	6	8	10	12		15	14	20
	12	6	8	10	12	15	20		14	+0.060	13	10	12	15		15	21	
	13	8	10	12	15	20	15		+0.030	14	10	12	15	20		16	22	
	14	8	10	14	15	16	16		+0.065	15	10	12	15	20		17	23	
	15	8	10	12	15	20	25		17	+0.035	16	10	12	15		20	18	24
	16	10	12	15	20	25	18		+0.070	18	10	12	15	20		25	20	26
	17	10	15				19		+0.035	20	10	12	15	20		25	23	31
	18	10	12	15	20	25	30		+0.075	22	10	12	15	20		25	25	33
	20	10	12	15	20	25	30		23	+0.080	25	10	12	15		20	25	30
	22	10	12	15	20	25	30		25	+0.045	30	12	15	20		25	30	42
	25	10	12	15	20	25	30		35	+0.085	35	12	20	25		30	40	49
	30	12	15	20	25	30	35		40	50	40	12	20	25		30	40	54
	35	12	15	20	25	30	35		40	50	45	20	25	30		40	50	60
	40	12	15	20	25	30	35		40	50	50	20	30	40		60	55	65
45	20	25	30	35	40	50	50	+0.100	55	30	40	60	60	70	2.5 0 -0.040			
50	20	25	30	35	40	50	60	+0.060	60	30	40		65	75				
55	25	30	35	40	50	60	60	+0.105										
60	30	35	40	50	60	80	65	+0.060										
60	30	35	40	50	60	80	65	+0.110										
70	30	35	40	50	60	80	75	+0.120										
80	40	50	60	80			85	+0.070										
								+0.125										
								+0.075										
								+0.130										
								+0.075										



Material: Filler Added PTFE Layer
Sintered Bronze Layer
Steel-backed Metal Layer (Low Carbon Steel: Tin Plating)
Allowable Temperature: 195~280°C



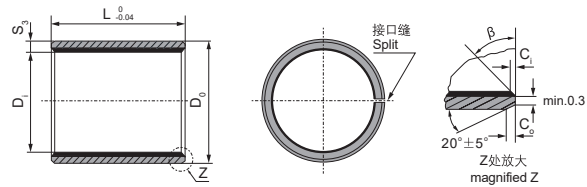
Размеры и допуски втулок
(справочная информация)



単位Unit: mm

轴径 (I7) Shaft D _i	座孔 (H7) Housing D _h	(OD) 外径公差 Tolerance D _o	(ID)压装后 内孔公差 After fixed D _{l a}	配合间隙 Clearance C _o	Designation 型号规格	Wall thickness 壁厚 S _s	尺寸 Dimension						
							D _i	D _o	D _h ± 0.5	L ± 0.25	S _r -0.2		
6 ^{-0.013 -0.028}	8 ^{+0.015}	8 ^{+0.055 +0.025}	6.055 5.990	0.077 0.000	HLDB-10F06040	1.005 0.980	6	8	12	4	1		
					HLDB-10F06070					7			
8 ^{-0.013 -0.028}	10 ^{+0.015}	10 ^{+0.055 +0.025}	8.055 7.990	0.083 0.003	HLDB-10F08055		8	10	15	5.5			
					HLDB-10F08075					7.5			
10 ^{-0.016 -0.034}	12 ^{+0.018}	12 ^{+0.055 +0.025}	10.058 9.990	0.086 0.003	HLDB-10F10070		10	12	18	7			
					HLDB-10F10090					9			
					HLDB-10F10120					12			
					HLDB-10F12070					7			
12 ^{-0.016 -0.034}	14 ^{+0.018}	14 ^{+0.065 +0.030}	12.058 11.990	0.092 0.006	HLDB-10F12090		12	14	20	9			
					HLDB-10F12120					12			
					HLDB-10F14120					12			
					HLDB-10F14170					17			
14 ^{-0.016 -0.034}	16 ^{+0.018}	16 ^{+0.065 +0.030}	14.058 13.990		HLDB-10F15090		14	16	22	9			
					HLDB-10F15120					12			
					HLDB-10F15170					17			
15 ^{-0.016 -0.034}	17 ^{+0.018}	17 ^{+0.065 +0.030}	15.058 14.990		HLDB-10F16120		15	17	23	12			
					HLDB-10F16170					17			
					HLDB-10F18120					12			
16 ^{-0.016 -0.034}	18 ^{+0.018}	18 ^{+0.065 +0.030}	16.058 15.990	HLDB-10F18170	16		18	24	17				
				HLDB-10F18200					20				
				HLDB-10F18200					20				
18 ^{-0.016 -0.034}	20 ^{+0.021}	20 ^{+0.075 +0.035}	18.061 17.990	HLDB-10F18200	18		20	26	17				
				HLDB-10F18200					20				
				HLDB-10F18200					20				
20 ^{-0.020 -0.041}	23 ^{+0.021}	23 ^{+0.075 +0.035}	20.071 19.990	HLDB-10F20115	1.505 1.475		20	23	30	11.5	1.5		
				HLDB-10F20165						16.5			
				HLDB-10F20215						21.5			
22 ^{-0.020 -0.041}	25 ^{+0.021}	25 ^{+0.075 +0.035}	22.071 21.990	HLDB-10F22150			22	25	32	15			
				HLDB-10F22200						20			
				HLDB-10F25115						11.5			
25 ^{-0.020 -0.041}	28 ^{+0.021}	28 ^{+0.075 +0.035}	25.071 24.990	HLDB-10F25165			25	28	35	16.5			
				HLDB-10F25215						21.5			
				HLDB-10F25215						21.5			
30 ^{-0.025 -0.050}	34 ^{+0.025}	34 ^{+0.075 +0.035}	30.085 29.990	HLDB-10F30160			2.005 1.970	30	34	42		16	2
				HLDB-10F30260								26	
35 ^{-0.025 -0.050}	39 ^{+0.025}	39 ^{+0.085 +0.045}	35.085 34.990	HLDB-10F35160				35	39	47		16	
				HLDB-10F35260	26								
				HLDB-10F40260	26								
40 ^{-0.025 -0.050}	44 ^{+0.025}	44 ^{+0.085 +0.045}	40.085 39.990	HLDB-10F40400	40			44	53	40			
				HLDB-10F40400						40			

Размеры и допуски втулок (справочная информация)



内外倒角 ID and OD chamfers

S ₃	C ₀	C ₁	β	S ₃	C ₀	C ₁	β
0.75	0.5 ± 0.3	0.25 ± 0.2	30° ± 5°	2.00	1.2 ± 0.4	0.50 ± 0.3	30° ± 5°
1.00	0.6 ± 0.3	0.30 ± 0.2	30° ± 5°	2.50	1.8 ± 0.6	0.60 ± 0.3	45° ± 5°
1.50	0.7 ± 0.3	0.50 ± 0.3	30° ± 5°				



单位 Unit: mm

轴径(F7) Shaft D _s	座孔(H7) Housing D _n	(OD) 外径公差 Tolerance D ₀	(ID)压装后 内孔公差 After fixed D _{1a}	配合间隙 Clearance D ₀	壁厚 Wall thick- ness S ₃	长度 L ⁰ _{-0.40} (ds > 28 L > 0.30 / ds > 30 L > 0.40)									
						6	8	10	12	15	20	25	30	40	50
6	+0.015	+0.055	8.055	0.077	1.005 0.960	0606	0608	0610							
8	+0.015	+0.055	8.055	0.083		0806	0808	0810	0812	0815					
10	+0.018	+0.030	10.058	0.086		1006	1008	1010	1012	1015	1020				
12	+0.018	+0.030	12.058	0.092		1206	1208	1210	1212	1215	1220	1225			
13	+0.018	+0.030	13.058	0.096				1310	1312	1315	1320	1325			
14	+0.018	+0.030	14.058	0.096				1410	1412	1415	1420	1425			
15	+0.018	+0.030	15.058	0.096	1.505 1.475			1510	1512	1515	1520	1525			
16	+0.018	+0.030	16.058	0.096				1610	1612	1615	1620	1625			
17	+0.021	+0.035	17.061	0.095				1710	1712	1715	1720	1725			
18	+0.021	+0.035	18.061	0.095				1810	1812	1815	1820	1825			
20	+0.021	+0.035	20.071	0.112				2010	2012	2015	2020	2025	2030		
22	+0.021	+0.035	22.071	0.110				2210	2212	2215	2220	2225	2230		
24	+0.021	+0.035	24.071	0.126	2.005 1.970			2410	2412	2415	2420	2425	2430		
25	+0.021	+0.035	25.071	0.110				2510	2512	2515	2520	2525	2530	2540	2550
28	+0.025	+0.045	28.085	0.135				2812	2815	2820	2825	2830	2840	2850	
30	+0.025	+0.045	30.085	0.135				3012	3015	3020	3025	3030	3040	3050	
32	+0.025	+0.045	32.085	0.135				3212	3215	3220	3225	3230	3240	3250	
35	+0.025	+0.045	35.085	0.135				3512	3515	3520	3525	3530	3540	3550	
38	+0.025	+0.045	38.085	0.135	2.465 2.415			3812	3815	3820	3825	3830	3840	3850	
40	+0.025	+0.045	40.085	0.135				4012	4015	4020	4025	4030	4040	4050	

轴径(F7) Shaft D _s	座孔(H7) Housing D _n	(OD) 外径公差 Tolerance D ₀	(ID)压装后 内孔公差 After fixed D _{1a}	配合间隙 Clearance D ₀	壁厚 Wall thick- ness S ₃	长度 L ⁰ _{-0.40}									
						20	25	30	40	50	60	70	80	100	115
45	+0.025	+0.085	45.110	0.155	2.505 2.460	4520	4525	4530	4540	4550					
50	+0.030	+0.100	50.110	0.160		5020	5025	5030	5040	5050	5060				
55	+0.030	+0.100	55.110	0.170				5530	5540	5550	5560				
60	+0.030	+0.100	60.110	0.170				6030	6040	6050	6060	6070			
65	+0.030	+0.100	65.110	0.170				6530	6540	6550	6560	6570			
70	+0.030	+0.100	70.110	0.170				7030	7040	7050	7060	7070	7080		
75	+0.030	+0.100	75.110	0.170	2.490 2.440			7530	7540	7550	7560	7570	7580		
80	+0.035	+0.120	80.155	0.201				8040	8050	8060	8070	8080	80100		
85	+0.035	+0.120	85.155	0.209				8540	8550	8560	8570	8580	85100		
90	+0.035	+0.120	90.155	0.209				9040	9050	9060	9070	9080	90100		
95	+0.035	+0.120	95.155	0.209				9550	9560	9570	9580	95100			
100	+0.035	+0.120	100.155	0.209				10050	10060	10070	10080	100100	100115		
105	+0.035	+0.120	105.155	0.209	2.465 2.415			10560	10570	10580	105100	105115			
110	+0.035	+0.120	110.115	0.209				11060	11070	11080	110100	110115			
120	+0.040	+0.170	120.210	0.264				12060	12070	12080	120100	120115			
125	+0.040	+0.170	125.210	0.264				12560	12570	12580	125100	125115			
130	+0.040	+0.170	130.210	0.264				13060	13070	13080	130100	130115			
140	+0.040	+0.170	140.210	0.264				14060	14070	14080	140100	140115			
150	+0.040	+0.170	150.210	0.264	2.465 2.415			15060	15070	15080	150100	150115			
160	+0.040	+0.170	160.210	0.264				16060	16070	16080	160100	160115			
180	+0.046	+0.210	180.216	0.279				18060	18070	18080	180100				
190	+0.046	+0.210	190.216	0.279				19060	19070	19080	190100				
200	+0.046	+0.210	200.016	0.288				20060	20070	20080	200100				
220	+0.046	+0.210	220.016	0.288				22060	22070	22080	220100				
250	+0.052	+0.260	250.222	0.294	2.465 2.415						25080	250100			
260	+0.052	+0.260	260.222	0.294							26080	260100			
280	+0.052	+0.260	280.222	0.303							28080	280100			
300	+0.052	+0.260	300.222	0.303							30080	300100			