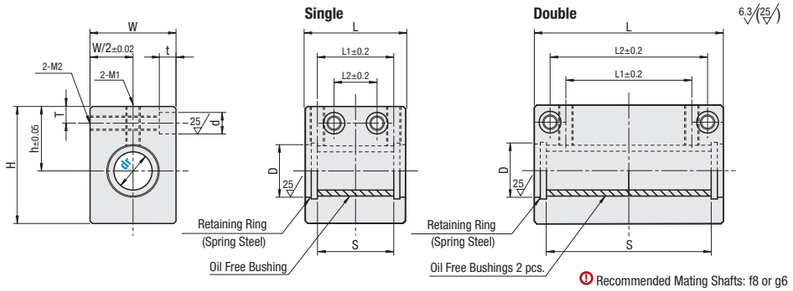
Oil-Free Bushing Pillow Blocks

Tall Block / Wide Block

Oil-Free Bushing Pillow Blocks – Tall Block

RoHS10

Type		Seal	Housing		Bushings	Operating Temperature (°C)
			Material	Surface Treatment	Material	
Single	MHUTS	No Seal	Aluminum Alloy	Clear Anodizing	High Tensile Brass Alloy Solid Lubricant Embedded (Graphite)	-40–150
	MHUTS-S	With Non-Contact Seals				
Double	MHUTW	No Seal				
	MHUTW-S	With Non-Contact Seals				



With Non-Contact Seals

A 0.3 mm thick Teflon seal is attached on the inner side of each retaining ring.

For Features of With Non-Contact Seals, refer to **P.452**.

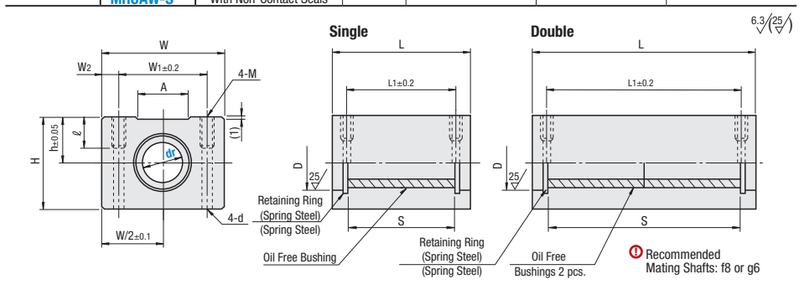
Recommended Mating Shafts: f8 or g6

Part Number Type		dr	Tol.	h	W	H	D	L Single	L Double	L1 Single	L1 Double	L2 Single	L2 Double	S Single	S Double	T	M1	M2	d x t	
No Seal With Non-Contact Seals	Single MHUTS MHUTS-S	10	+0.028 0	19	26	32	15	37	62	27	36	15	50	24.8	49.6	6	M6	M5	8 x 6	(For M4 Screws)
		12	+0.034 0	20	28	34	17	37	62	27	36	15	50	24.8	49.6	6	M6	M5	8 x 6	
		13		25	30	43	18	38	68	28	42	16	55	24.8	49.6	7	M6	M6	9 x 7	(For M5 Screws)
		16		27	36	49	22.2	42	78	32	52	18	65	29.8	59.6	7	M6	M6	9 x 7	
No Seal With Non-Contact Seals	Double MHUTW MHUTW-S	20	+0.041 0	31	42	54	26	48	85	36	58	18	70	34.8	69.6	8	M8	M8	11 x 8	(For M6 Screws)
		25		37	52	65	32	56	120	42	80	22	100	49.8	99.6	9	M10	M10	14 x 10	(For M8 Screws)
		30		40	58	71	37	68	128	44	90	22	110	59.8	119.6	9	M10	M10	14 x 10	

Oil-Free Bushing Pillow Blocks – Wide Block

RoHS10

Type		Seal	Housing		Bushings	Operating Temperature (°C)
			Material	Surface Treatment	Material	
Single	MHUAS	No Seal	Aluminum Alloy	Clear Anodizing	High Tensile Brass Alloy Solid Lubricant Embedded (Graphite)	-40–150
	MHUAS-S	With Non-Contact Seals				
Double	MHUAW	No Seal				
	MHUAW-S	With Non-Contact Seals				



With Non-Contact Seals

A 0.3 mm thick Teflon seal is attached on the inner side of each retaining ring.

Recommended Mating Shafts: f8 or g6

Part Number Type		dr	Tol.	h	W	H	D	L Single	L Double	L1 Single	L1 Double	S Single	S Double	W1	W2	M	d	ℓ	A
No Seal With Non-Contact Seals	Single MHUAS MHUAS-S	16	+0.034 0	19	54	42	22.2	42	68	34	60	29.8	59.6	36	9	M5	4.3	12	26
		20	+0.041 0	21	54	42	26	48	78	40	70	34.8	69.6	40	7	M6	5.2	12	26
No Seal With Non-Contact Seals	Double MHUAW MHUAW-S	25		26	78	60	32	62	110	50	100	49.8	99.6	54	12	M8	7	18	38
		30		30	78	60	37	70	128	58	110	59.8	119.6	58	10	M8	7	18	38

For Features of With Non-Contact Seals, refer to **P.452**.

Part Number Example

Part Number

MHUTS16
MHUAS20

Add. Spec. Printed in Red

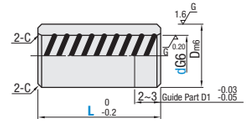
Oil-Free Bushings / Oil-Free Bushing Housing Unit

Straight / Flanged / Casting / Integrated Flange

Oil-Free Bushings – Casting Straight / Flanged

RoHS10

SMZ Straight

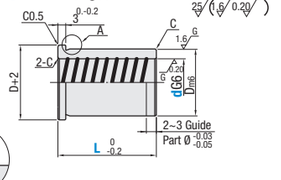


Recommended Mating Shaft Tolerance: e7 or h7

Recommended Housing I.D.: +0.05 to +0.02

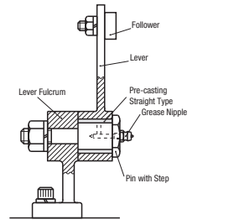
Thread locking adhesive is recommended to affix bushings.

SMZF Flanged



Material: Alloy Cast Iron Class No.35
Special Solid Lubricant

Application Example

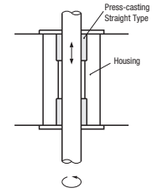


Part Number Type	d_{G6}		L	D_{m6}		C	Available Size SMZ		SMZF	
Straight SMZ	6	+0.014 +0.005	*6 8 10 12	10		0.3	•	•	•	•
	8		8 10 12 15	12	+0.018 +0.007		•	•	•	•
	10		10 12 15 20	16			•	•	•	•
	12	+0.017 +0.006	10 12 15 20 25	18			•	•	•	•
	15		15 20 25 30	22	+0.021 +0.008		•	•	•	•
	16		15 20 25 30	23			•	•	•	•
	18		(25) (30)	26			—	—	•	•
Flanged SMZF	20	+0.020 +0.007	(15) 20 25 30 *35 40	28	+0.025 +0.009	0.5	•	•	•	•
	22		(15) (25) (30) 40	30			•	•	•	•
	25		25 30 40 50	32			•	•	•	•
	28		(30)	35			—	—	•	•
	30		30 40 50 60	38			•	•	•	•

* marked L dimension is available for SMZ only. ( ) marked L dimension for SMZF only.

Part Number Example

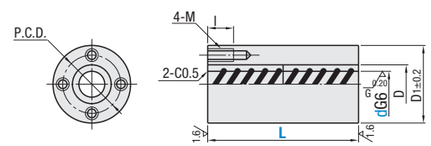
Part Number	-	L
SMZ12	-	20



Oil-Free Bushing Housing Unit – Casted

RoHS10

MHSR

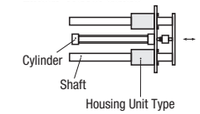


Recommended Mating Shaft Tolerance: e7 or h7

Housing Material: 1018 Carbon Steel or equivalent
Surface Treatment: Chrome Plating
Bushing: SMZ

Application Example

Linear Travel Guide



Part Number Type	d	L (1 Bushing) Short	L (2 Bushings) Long	D	D1	M x ℓ	P.C.D.	Mass (g) Short	Mass (g) Long
MHSR	8	15	30	12	30	4 x 8	21	77	154
	10	20	40	16	34		25	130	260
	12	25	40	18	36		27	177	284
	15	30	50	22	42	5 x 10	32	284	474
	20	40	60	28	48		38	469	939
	25	50	80	32	52		42	641	1025
	30	60	100	38	60	6 x 12	49	999	1665

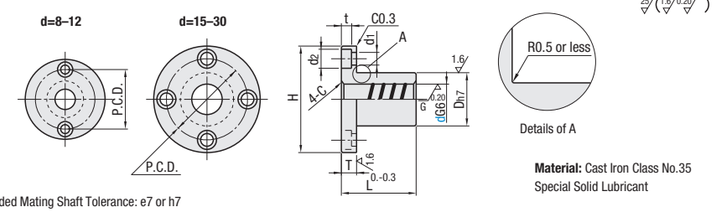
Part Number Example

Part Number	-	L
MHSR15	-	50

Oil-Free Bushings – Flange Integrated

RoHS10

SMZH



Recommended Mating Shaft Tolerance: e7 or h7

Material: Cast Iron Class No.35
Special Solid Lubricant

Part Number Type	dG6	Tol.	Dh7	Tol.	L	H	T	d1	d2	t	P.C.D.	Mass (g)
SMZH	8	+0.014 +0.005	15	0 -0.013	20	32	5	3.5	6	3.1	24	45
	10		19	0 -0.016	25	40	6	4.5	7.5	4.1	29	85
	12	+0.017 +0.006	21		30	42					32	103
	15		28		40	48					38	180
	20	+0.020 +0.007	32	0 -0.019	50	54	8	5.5	9	5.1	43	280
	25		40		60	62					51	270
	30		45		70	74	10	6.6	11	6.1	60	670

Part Number Example

Part Number

SMZH10