Support Units - Fixed Side, Square <Convenient>

Type with Damper / Type with Dowel Holes

Support Units with Damper integrate the Stopper for Ball Screws and the Support Unit and are suitable for use in limited spaces.

■Fixed Side Standard with Damper

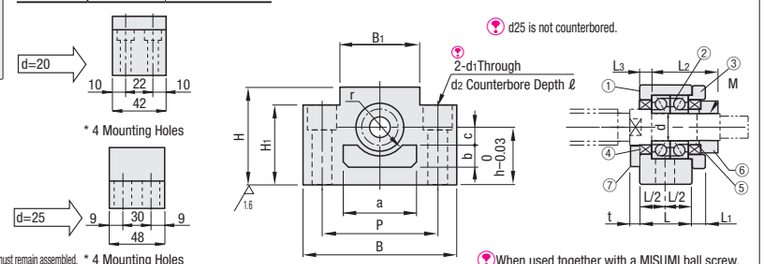
(Industry Standard, for High Speed Applications)

RoHS10

Type	M Material ①③⑤⑥	S Surface Treatment ①③⑤⑥
BSWD	S45C	Black Oxide

■Component Details

Number	Part Name	Quantity
①	Bearing Housing	1
②	Japanese standard angular contact bearing Grade5	1 Set
③	Cover	1
④	Oil Seal	2
⑤	Collar	2
⑥	Bearing Nut (with Set Piece)	1
⑦	Urethane Damper (Shore A70)	?1



Do not disassemble the fixed side main body ①, ②, ③, ④ and ⑤, as they must remain assembled.

⑦ is adhesive bonded to the housing.

For No.10S, the I.D. of oil seal is smaller than the previous No.10S version.

When used together with a MISUMI ball screw, there is one support unit accessory collar spare.

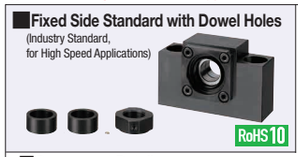
Part Number Type	No.	d	L	L1	L2	L3	B	H	h	B1	H1	P	d1	d2	ℓ	M (Fine)	Oil Seal Applicable Shaft Dia.	Damper Dimension a	b	c	r	t	Unit Price 1 ~ 10 pc (s).
BSWD	1022	10	24	6	29.5	6	70	40	22	36	32	52	9	14	11	M10x1.0	14	34	10	6	12	10	
	10S							43	25		35						12						
	10																14						
	1223	12						41	23		33					M12x1.0	15						
	12							43	25		35												
	1526	15	25	6	38	5	80	46	26	41	36	60	11	17	15	M15x1.0	20	46	12	7	15.5		
	1528							48	28		38												
	15							50	*30		40												
	20	20	42	10	52	10	95	58		56	45	75				M20x1.0	25	50	15	10	18		
	25	25	48	13	59	14	105	68	35	66	25	85	11	-	-	M25x1.5	31	60	19	10	25		

Take care in combining No.20 with Ball Screw BSSZ (K) 2510, BSSR (K) 2510 or BSST2510. The ball screw nut may come in contact with the bottom surfaces.

MISUMI Original Standard Type with Dowel Holes achieves better repeatability and accurate positioning than conventional products.

■Fixed Side Standard with Dowel Holes

(Industry Standard, for High Speed Applications)



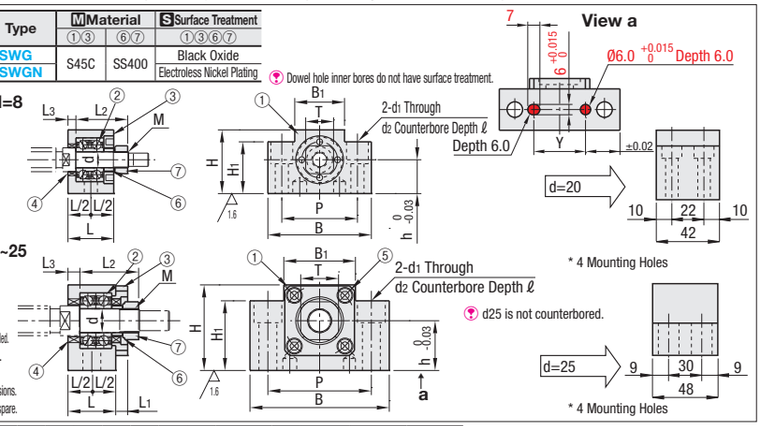
RoHS10

Type	M Material ①③	⑥⑦	S Surface Treatment ①③⑥⑦
BSWG	S45C	SS400	Black Oxide
BSWGN			Electroless Nickel Plating

Dowel hole inner bores do not have surface treatment.

■Component Details

Number	Part Name	Quantity
①	Bearing Housing	1
②	Japanese standard angular contact bearing Grade5	1 Set
③	Cover	1
④	Oil Seal	2
⑤	Hex Socket Head Cap Screw*	4
⑥	Collar	2
⑦	Bearing Nut (with Set Piece)	1



d=8 comes with one Oil Seal ④

Do not disassemble the fixed side main body ①, ②, ③, ④ and ⑤, as they must remain assembled.

BSWGR bearing is filled with low dust generation grease.

* ⑤ screws of BSWGR・BSWGN are stainless steel.

For No.8S and 10S, the I.D. of oil seal is smaller than the previous No.8S and No.10S versions.

When used together with a MISUMI ball screw, there is one support unit accessory collar spare.

d25 is not counterbored.

Part Number Type	No.	d	L	L1	L2	L3	B	H	h	B1	H1	P	Y	d1	d2	ℓ	M (Fine)	T	Oil Seal Applicable Shaft Dia.	BSWG Unit Price 1 ~ 10 pc (s).	BSWGN Unit Price 1 ~ 10 pc (s).
BSWG BSWGN	8S	8	23	-	26	4	52	32	17	25	26	38	20	6.6	11	11	M8x1.0	14	10		
	8																		11.5		
	1022	10	24	6	29.5	6	70	40	22	36	32	52	30	9	14		M10x1.0	17	14		
	10S							43	25		35								12		
	10																		14		
	1223	12						41	23		33						M12x1.0	19	15		
	12							43	25		35										
	1526	15	25	6	38	5	80	46	26	41	36	60	36	11	17	15	M15x1.0	22	20		
	1528							48	28		38										
	15							50	*30		40										
	20	20	42	10	52	10	95	58		56	45	75	50				M20x1.0	30	25		
	25	25	48	13	59	14	105	68	35	66	25	85	60	11	-	-	M25x1.5	35	31		

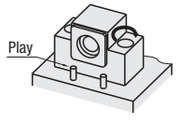
* Take care in combining No.20 with Ball Screw BSSZ(K)2510, BSSR(K)2510 or BSST2510. The ball screw nut may come in contact with the bottom surfaces.

Ordering Example — Part Number: BSWG15, BSWD15

■Features of Support Units with Dowel Holes

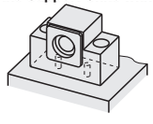
There is a method of pressing against vertical dowel pins for locating support units. However, care is required when tightening the mounting screws so as not to cause clearances between the pins and the support unit.
Using the Support Units with Dowel Holes reduces the assembling time as troublesome adjustments for the clearance will not be needed any more.

・Method of Pressing against Vertically Placed Dowel Pins



When tightening the mounting screws, clearance between the pins and the wall may be created. If this clearance exists, readjustment is required.

・Using the Support Units with Dowel Holes



As the dowel holes are provided with the Support Units, locating is easy.

Support Units - Support Side, Square <Convenient>

Type with Damper / Type with Retaining Ring

■Support Side with Damper

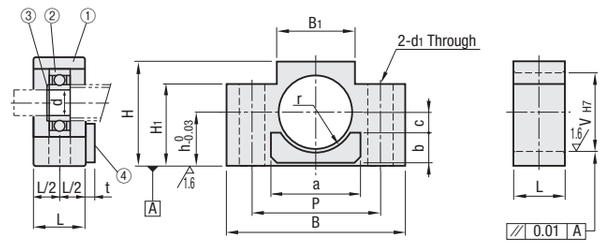
RoHS10

Type	M Material	S Surface Treatment
BUND	S45C	Black Oxide

■Component Details

Number	Part Name	Quantity
①	Housing	1
②	Japanese made radial bearing	1
③	Retaining Ring	1
④	Urethane Damper (Shore A70)	?1

④ is adhesive bonded to the housing.



Part Number Type	No.	d	L	B	H	h	B1	H1	P	V	d1	Damper Dimension a	b	c	r	t	Bearing Type	Retaining Ring	Unit Price 1 ~ 10 pc (s).
BUND	1022	8	20	70	40	22	36	21	52	22	9	34	10	6	12	10	B608ZZ	STWN8	
	10				43	25		24											
	1223	10			41	23		22		26		46	12	7	15.5		B6000ZZ	STWN10	
	12				43	25		24											
	1526	15		80	46	26	41	21	60	32	11	50	15	10	18		B6002ZZ	STWN15	
	1528				48	28		23											
	15				50	*30		25											
	20	20	26	95	58		56	30	75	47		60	19	10	25		B6204ZZ	STWN20	
	25	25	30	105	68	35	66	25	85	52		80	19	15	28		B6205ZZ	STWN25	

■Support Side Retaining Ring

RoHS10

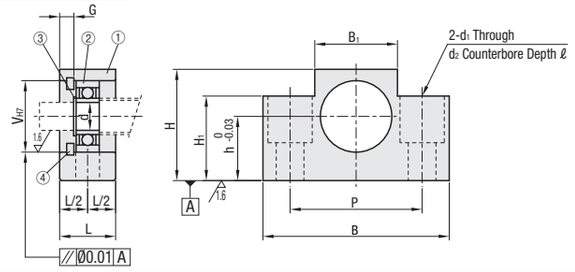
Type with Retaining Ring	M Material	S Surface Treatment
BTN	S45C	Black Oxide
BTNM		Electroless Nickel Plating

No.10 ~ 25 are not counterbored.

■Component Details

Number	Part Name	Quantity
①	Housing	1
②	Japanese made radial bearing	1
③	Retaining Ring (STWN, S)	1
④	Retaining Ring (RTWN, S)	1

BUNR bearing is Stainless Steel Type filled with low dust generation grease.
*BUNR/BUNM retaining rings ③ and ④ are Stainless Steel Type.



Part Number Type	No.	d	L	B	H	h	B1	H1	P	V	d1	d2	ℓ	Retaining Ring G	Retaining Ring	Bearing Type	Retaining Ring	BTN Unit Price 1 ~ 10 pc (s).	BTNM Unit Price 1 ~ 10 pc (s).
BTN BTNM	6	6	12	42	25	13	18	20	30	17	5.5	9.5	11	3	RTWN, S17	B606ZZ	STWN, S6		
	8		15	52	32	17	25	26	38		6.6	11							
	10	8	20	70	43	25	36	24	52	22	9	-	-	3	RTWN, S22	B608ZZ	STWN, S8		
	12	10								26				3	RTWN, S26	B6000ZZ	STWN, S10		
	15	15		80	50	*30	41	25	60	32	11			4	RTWN, S32	B6002ZZ	STWN, S15		
	20	20	26	95	58		56	30	75	47				4.5	RTWN, S47	B6204ZZ	STWN, S20		
	25	25	30	105	68	35	66	25	85	52					RTWN, S52	B6205ZZ	STWN, S25		

* Take care in combining No.20 with Ball Screw BSSZ(K)2510, BSSR(K)2510 or BSST2510. The ball screw nut may come in contact with the bottom surfaces.

Ordering Example — Part Number: BUND15, BTN15

For details of Bearings in addition to mounting interface accuracies of Support Units, Included Collar and Bearing Nut, see P.759

Low Temperature Black Chrome Plating products are filled with low dust generation grease for cleanrooms.

Store Accessories with care since they are required when assembling.