


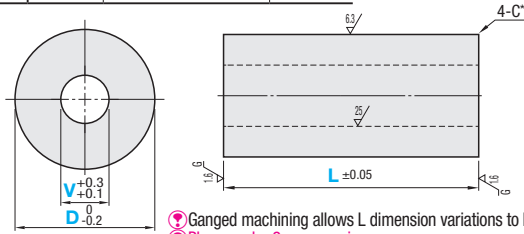
Simultaneous Grinding Spacers

Stepped Spacers



Type	Material	Surface Treatment	Hardness
DWSSB	S45C	Black Oxide	-
DWSSM	Equivalent	Electroless Nickel Plating	
DWSSS	SUS304	-	55HRC~
DWSSKB	SKS3	Black Oxide	
DWSSKM	Equivalent	Electroless Nickel Plating	

* D=16 or Less: C0.1 ~ 0.2
D=20 or More: C0.5 or Less

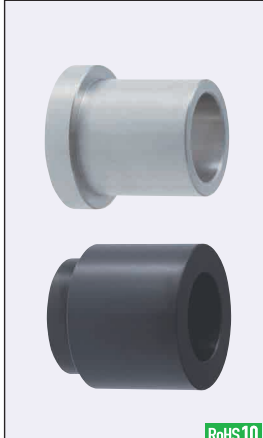


⚠ Ganged machining allows L dimension variations to be within ±5 micro meters per order.
⚠ Please order 2 or more pieces.

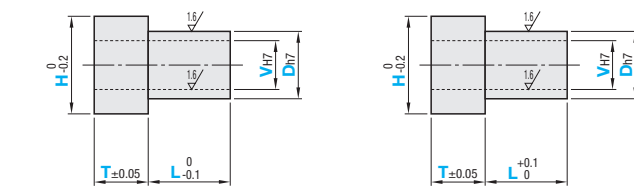
Part Number	D 0.5mm Increment	V 0.5mm Increment (V3 or More)	L		Simultaneous Grinding Maximum Quantity	Unit Price					
			Machining Conditions	0.1mm Increment		DWSSB	DWSSM	DWSSS	DWSSKB	DWSSKM	
DWSSB DWSSM DWSSS DWSSKB DWSSKM	4.0~10.0	0 2 2.6 3.0~8.0	L≤40 ⇒D-V≥2 40.1≤L≤50 ⇒D-V≥4	1.0~ 5.0	100 pcs.						
				5.1~ 10.0							
				10.1~ 25.0							
	10.5~15.5	0 2 2.6 3.0~13.5	L≤40 ⇒D-V≥2 40.1≤L≤80 ⇒D-V≥4 80.1≤L≤100 ⇒D-V≥6	25.1~ 40.0		50 pcs.					
				40.1~ 50.0							
				1.0~ 5.0							
				5.1~ 10.0							
				10.1~ 25.0							
				25.1~ 40.0							
	16.0~20.0	0 2 2.6 3.0~18.0	L≤40 ⇒D-V≥2 40.1≤L≤80 ⇒D-V≥4 80.1≤L≤100 ⇒D-V≥6	40.1~ 55.0		20 pcs.					
				55.1~ 70.0							
				70.1~ 85.0							
85.1~ 100.0											
1.0~ 20.0											
20.1~ 30.0											
20.5~30.0	0 2 2.6 3.0~28.0	L≤50 ⇒D-V≥2 50.1≤L≤100 ⇒D-V≥6	30.1~ 40.0	10 pcs.							
			40.1~ 50.0								
			50.1~ 60.0								
			60.1~ 70.0								
			70.1~ 80.0								
			80.1~ 90.0								
30.5~39.5	0 2 2.6 3.0~37.5	L≤50 ⇒D-V≥2 50.1≤L≤100 ⇒D-V≥6	90.1~ 100.0	5 pcs.							
			1.0~ 20.0								
			20.1~ 30.0								
			30.1~ 40.0								
			40.1~ 50.0								
			50.1~ 60.0								
40.0~50.0	0 2 2.6 3.0~48.0	L≤50 ⇒D-V≥2 50.1≤L≤100 ⇒D-V≥6	60.1~ 70.0	2 pcs.							
			70.1~ 80.0								
			80.1~ 90.0								
			90.1~ 100.0								
			1.0~ 20.0								
			20.1~ 30.0								

⚠ Common Machining Conditions: ① L≤Vx8 ② DWSSS(SUS304)⇒L≥2 ⚠ Please order 2 or more pieces. ⚠ No specification available for sizes without declaration of value.

Ordering Example: Part Number - D - V - L
DWSSS - D35.5 - V12.5 - L58.4



Type	L Tolerance	Material	Surface Treatment
DCLB	0 -0.1	S45C Equivalent	Black Oxide
DCLM		Equivalent	Electroless Nickel Plating
DCLS		SUS304	-
MCLB	+0.1 0	S45C Equivalent	Black Oxide
MCLM		Equivalent	Electroless Nickel Plating
MCLS		SUS304	-



⚠ L Tolerance 0 -0.1 ⚠ L Tolerance +0.1 0

⚠ Circumference C0.5 or Less

Part Number	Dh7 0.5mm Increment	Vh7 0.5mm Increment	H 0.5mm Increment	T 0.1mm Increment	L 0.1mm Increment	Unit Price L Tolerance -0.1-0			Unit Price L Tolerance 0~+0.1		
						DCLB	DCLM	DCLS	MCLB	MCLM	MCLS
L Tolerance 0~-0.1 DCLB DCLM DCLS	5.0~10.0	2.0~8.0 (V≤D-2)	7.0~16.0 (D+2≤H≤D+6)	1.0~20.0	1.0~ 5.0						
					5.1~10.0						
					10.1~25.0						
					25.1~40.0						
					40.1~50.0						
L Tolerance +0.1~0 MCLB MCLM MCLS	10.5~20.0	2.0~18.0 (V≤D-2)	12.5~26.0 (D+2≤H≤D+6)	1.0~20.0	1.0~ 5.0						
					5.1~10.0						
					10.1~25.0						
					25.1~40.0						
					40.1~50.0						
L Tolerance +0.1~0 MCLB MCLM MCLS	20.5~30.0	2.0~28.0 (V≤D-2)	22.5~40.0 (D+2≤H≤D+10)	1.0~20.0	1.0~20.0						
					20.1~30.0						
					30.1~40.0						
					40.1~50.0						
					1.0~20.0						
L Tolerance +0.1~0 MCLB MCLM MCLS	30.5~40.0	6.0~36.0 (V≤D-4)	32.5~50.0 (D+2≤H≤D+10)	1.0~20.0	20.1~30.0						
					30.1~40.0						
					40.1~50.0						
					1.0~20.0						
					20.1~30.0						
L Tolerance +0.1~0 MCLB MCLM MCLS	40.5~50.0	10.0~44.0 (V≤D-6)	42.5~60.0 (D+2≤H≤D+10)	1.0~20.0	20.1~30.0						
					30.1~40.0						
					40.1~50.0						
					1.0~20.0						
					20.1~30.0						

⚠ Common Machining Conditions: ① L+T≤Vx8 ② When V≥8 and L+T≥Vx4, intermediate clearance is added.

Ordering Example: Part Number - D - V - H - T - L
DCLS - D25.5 - V12.5 - H33.5 - T10.7 - L40.2

