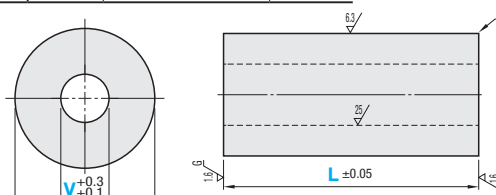


Simultaneous Grinding Spacers



Type	Material	Surface Treatment	Hardness
DWSSB	S45C	Black Oxide	
DWSSM	Equivalent	Electroless Nickel Plating	-
DWSSS	SUS304	-	
DWSSKB	SKS3	Black Oxide	55HRC~
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						
				25.1~ 40.0						
				40.1~ 50.0						
	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	1.0~ 5.0						
				5.1~ 10.0						
				10.1~ 25.0						
				25.1~ 40.0						
				40.1~ 55.0						
	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	55.1~ 70.0	50 pcs.					
				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						
				40.1~ 50.0						
				50.1~ 60.0						
				60.1~ 70.0						
				70.1~ 80.0						
	30.5~39.5	0 2 2.6 3.0~37.5	L≤50 ⇒D-V≥2 50.1≤L≤100 ⇒D-V≥6	80.1~ 90.0	20 pcs.					
				90.1~ 100.0						
				1.0~ 20.0						
				20.1~ 30.0						
				30.1~ 40.0						
	40.0~50.0	0 2 2.6 3.0~48.0	L≤50 ⇒D-V≥2 50.1≤L≤100 ⇒D-V≥6	40.1~ 50.0						
				50.1~ 60.0						
				60.1~ 70.0						
				70.1~ 80.0						
				80.1~ 90.0						

⚠ 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

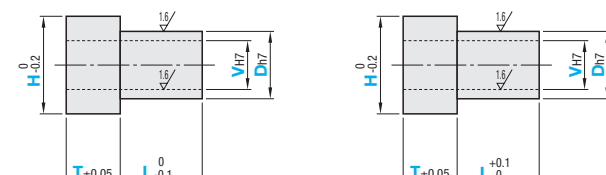
DWSSS - D35.5 - V12.5 - L58.4

Stepped Spacers



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

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



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

Circumference C0.5 or Less

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

⚠ 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