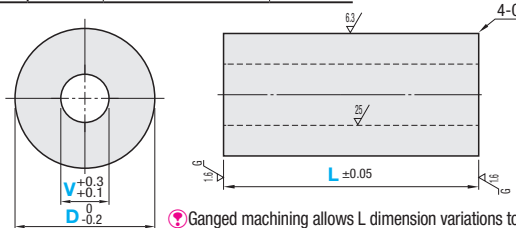


Simultaneous Grinding Spacers



Type	Material	Surface Treatment	Hardness
DWSSB	EN 1.1191	Black Oxide	-
DWSSM	Equiv.	Electroless Nickel Plating	
DWSSS	EN 1.4301 Equiv.	-	
DWSSKB	EN 1.2510 Equiv.	Black Oxide	55HRC~
DWSSKM		Electroless Nickel Plating	

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



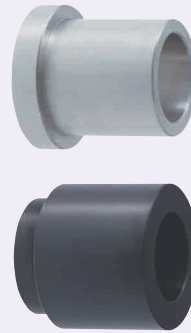
⚠ Ganged machining allows L dimension variations to be within ± 5 micro meters per order.
⚠ Please order 2 or more pieces.

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						
				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≤40 ⇒D-V≥2 40.1≤L≤80 ⇒D-V≥4 80.1≤L≤100 ⇒D-V≥6	30.1~ 40.0	50 pcs.					
				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≤40 ⇒D-V≥2 50.1≤L≤100 ⇒D-V≥6	80.1~ 90.0						
				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	20 pcs.						
			50.1~ 60.0							
			60.1~ 70.0							
			70.1~ 80.0							
			80.1~ 90.0							
			90.1~ 100.0							
			1.0~ 20.0							
			20.1~ 30.0							
			30.1~ 40.0							
			40.1~ 50.0							
			50.1~ 60.0							
			60.1~ 70.0							
			70.1~ 80.0							
			80.1~ 90.0							
			90.1~ 100.0							

① Common Machining Conditions: ① L≤Vx8 ② DWSSS(EN 1.4301 Equiv.)⇒L≥2 ③ Please order 2 or more pieces. ④ No specification available for sizes without declaration of value.

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

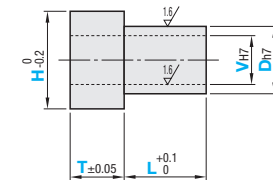
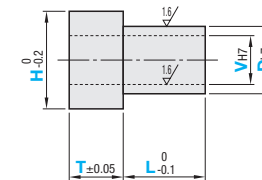
Stepped Spacers



Type	Tolerance	Material	Surface Treatment
DCLB	0 -0.1	EN 1.1191 Equiv.	Black Oxide
DCLM		EN 1.4301 Equiv.	Electroless Nickel Platin
DCLS			-
MCLB	+0.1 0	EN 1.1191 Equiv.	Black Oxide
MCLM		EN 1.4301 Equiv.	Electroless Nickel Platin
MCLS			-

■ L Tolerance 0
-0.1

■ L Tolerance $\begin{matrix} +0.1 \\ 0 \end{matrix}$



Circumference C0.5 or Less

[illegible]

Common Machining Conditions: ① $L+T \leq Vx8$ ② When $V \geq 8$ and $L+T \geq Vx4$, intermediate clearance is added.



Ordering Example

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

 **Central relief**

