

DIN ISO 8405
1.2344 equivalent
+
Nitrided

DIN ISO 8405
1.2344 equivalent
+
Hardened

STRAIGHT EJECTOR SLEEVES

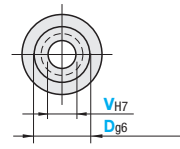
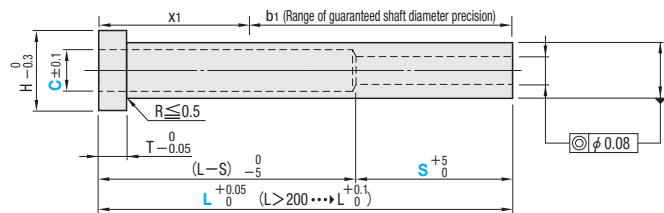
—◎0.08 DIMENSIONS SPECIFY TYPE—



Type	M	H	T V	Applicable center pin shaft diameter tolerance
D-ESN-L	1.2344 equivalent+Nitrided	Surface: 900HV Base Material: 40±3HRC	H7	*Note that for sleeves with V dimension tolerance of H7, combination with center pins that have shaft diameter tolerance -0.005 is not recommended. The reason for this is the fitting section S are longer.
D-ESD-L	1.2344 equivalent	Base Material: 50~55HRC	H7	

D _{g6}				
D ≤ 6	6.5 ≤ D ≤ 10	12 ≤ D ≤ 16	D = 20	
-0.004	-0.005	-0.006	-0.007	
-0.012	-0.014	-0.017	-0.020	

V _{H7}				
V ≤ 3.0	3.1 ≤ V ≤ 6.0	6.1 ≤ V ≤ 10.0	V ≥ 10.1	
+0.010 0	+0.012 0	+0.015 0	+0.018 0	



Dimension C remains unchanged

Range of guaranteed shaft diameter precision (b₁=L-x₁)
x₁ max.40

⚠ Nitriding may extend to the head as it is applied after dimension V and D machining.

⚠ When the diameter (D) portion of the stepped center pin is inserted into the relief hole (C), make sure relief hole (C) ≥ pin diameter (D)+1.0

H	T	Part No.		L		V 0.1mm increments	C 0.1mm increments	Cmax.	S 1mm increments	
		Type	D	0.01mm increments	0.1mm increments					
8	3	D-ESN-L (1.2344 equivalent + Nitrided)	4	40.00~200.00	—	1.5~2.5	C ≥ V+0.5 (When L>300 0.5mm increments)	3.0	20~100 (D4, D4.5 When V1.5~V1.9 20~40)	
			4.5	40.00~200.00		1.5~3.0				3.5
			5	40.00~300.00		2.0~3.5				4.0
			5.5	40.00~300.00		2.0~4.0				4.5
			6	40.00~400.00		2.0~4.5				5.0
12	5	D-ESD-L (1.2344 equivalent Hardened)	6.5	40.00~400.00	2.0~4.5	5.5	20~100 (L-S) min. 40.00~60.00 20 60.01~ 30			
			7	40.00~400.00	2.0~5.0	6.0				
			7.5	40.00~400.00	2.0~5.5	6.5				
			8	40.00~400.00	2.0~6.0	7.5				
			9	40.00~400.00	2.5~7.0	8.5				
14	7	D-ESD-L (1.2344 equivalent Hardened)	10	70.00~500.00	2.5~8.0	10.5	20~100 (L-S) ≥ 50			
			12	70.00~500.00	2.5~10.0	12.5				
			15	70.00~500.00	2.5~12.0	13.5				
			16	70.00~500.00	3.0~13.0	15.5				
			20	100.00~500.00	3.0~16.0	16.5				

Order **Part No.** — **L** — **V** — **C** — **S**
D-ESN-L6 — 300 — 3.5 — 5.5 — S30

Alterations **Part No.** — **L** — **V** — **C** — **S** — (KC · WKC...etc.) Alteration details P.14
D-ESD-L8 — 500 — 4.5 — 6.5 — S40 — KC4.5

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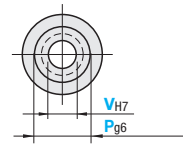
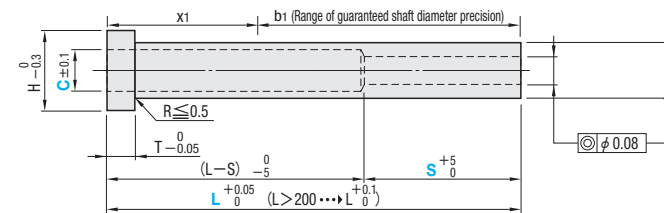
—◎0.08 DIMENSIONS SPECIFY TYPE—



Part No.	M	H	T V	Applicable center pin shaft diameter tolerance
D-ESNB	1.2344 equivalent+Nitrided	Surface: 900HV Base Material: 40±3HRC	H7	*Note that for sleeves with V dimension tolerance of H7, combination with center pins that have shaft diameter tolerance -0.005 is not recommended. The reason for this is the fitting section S are longer.
D-ESDB	1.2344 equivalent	Base Material: 50~55HRC	H7	

P _{g6}				
P ≤ 6	6.5 ≤ P ≤ 10	12 ≤ P ≤ 16	P = 20	
-0.004	-0.005	-0.006	-0.007	
-0.012	-0.014	-0.017	-0.020	

V _{H7}				
V ≤ 3.0	3.1 ≤ V ≤ 6.0	6.1 ≤ V ≤ 10.0	V ≥ 10.1	
+0.010 0	+0.012 0	+0.015 0	+0.018 0	



Dimension C remains unchanged

Range of guaranteed shaft diameter precision (b₁=L-x₁)
x₁ max.40

⚠ Nitriding may extend to the head as it is applied after dimension V and P machining.

⚠ When the diameter (P) portion of the stepped center pin is inserted into the relief hole (C), make sure relief hole (C) ≥ pin diameter (P)+1.0

H	T	Part No.		L		P 0.1mm increments	V 0.1mm increments	C 0.1mm increments	Cmax.	S 1mm increments	
		Type	No.	0.01mm increments	0.1mm increments						
8	3	D-ESNB (1.2344 equivalent + Nitrided)	4	40.00~200.00	—	3.50~3.99	1.5~1.9	C ≥ V+0.5 and C ≤ P-1.5 (When L>300 0.5mm increments)	2.4	20~100 (No.4, No.4.5 When V1.5~V1.9 20~40)	
			4.5	40.00~200.00		4.01~4.49	1.5~2.4				2.9
			5	40.00~300.00		4.51~4.99	2.0~2.9				3.4
			5.5	40.00~300.00		5.01~5.49	2.0~3.4				3.9
			6	40.00~400.00		5.51~5.99	2.0~3.9				4.4
12	5	D-ESDB (1.2344 equivalent Hardened)	6.5	40.00~400.00	6.01~6.49	2.0~4.4	4.9				
			7	40.00~400.00	6.51~6.99	2.0~4.9	5.4				
			7.5	40.00~400.00	7.01~7.49	2.0~5.4	5.9				
			8	40.00~400.00	7.51~7.99	2.5~5.9	6.4				
			9	40.00~400.00	8.01~8.99	2.5~6.9	7.4				
14	7	D-ESDB (1.2344 equivalent Hardened)	10	70.00~500.00	9.01~9.99	2.5~7.9	8.4	20~100 (L-S) min. 40.00~60.00 20 60.01~70.00 30 70.01~80.00 40 80.01~ 50			
			12	70.00~500.00	10.01~11.99	2.5~9.9	10.4				
			15	70.00~500.00	12.01~14.99	2.5~12.0	12.5				
			16	70.00~500.00	15.01~15.99	2.5~13.0	13.5				
			20	100.00~500.00	16.01~19.99	3.0~16.0	16.5				

V ≤ P-2.0

Order **Part No.** — **L** — **P** — **V** — **C** — **S**
D-ESNB 4 — 200 — P3.5 — V1.5 — C2.0 — S30

Alterations **Part No.** — **L** — **P** — **V** — **C** — **S** — (KC · WKC...etc.) Alteration details P.14
D-ESDB 10 — 300 — P9.1 — V5.5 — C6.2 — S50 — HC10