

Guide Axis ▶ One-end Step and One-end Internal Thread Type • One-end Step and Two-end Internal Thread Type Ordinary Grade/Precision Grade



Please order according to the diagram

①~⑦ Select the type and parameters in the order of for ordering.

⑧ One-end Step and Two-end Internal Thread Type(Ordinary Grade)

Model(①Code) - ②D - ③L - ④E - ⑤P - ⑥M - ⑦N - ⑧(⑨NC) ⑩SD() Optional Processing

HDZFN - D8 - L800 - E15 - P6 - M3 - N4 - LC



Quantity	1~9	10~
Price	100%	Separate Quotation

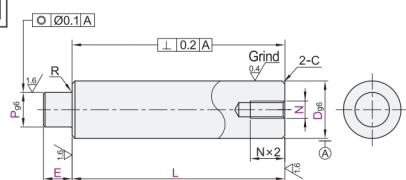
Pice Excluding Tax (Yuan)

Custom-made Inventory

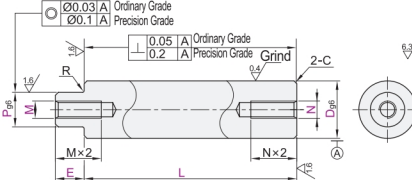


One-end Step and One-end Internal Thread Type	One-end Step and Two-end Internal Thread Type	D Tolerance	Material	Hardness	Surface Treatment
Ordinary Grade	Ordinary Grade	Precision Grade	International	Equivalent	
HDZEN	HDZFN	HDZFJN	GCr15	SUJ2	High-frequency quenching
HDZEP	HDZFP	HDZFJP			Effective hardened layer depth see P003
HDZES	HDZFS	HDZFJS	9Cr18Mo	SUS440C	Quenching hardness
HDZET	HDZFT	HDZFJT			Hard Chromium Plating Coating hardness HV650- Coating thickness 3~53μm
				GCr15	HRC56~
				9Cr18Mo	HRC54~
					Hard Chromium Plating Coating hardness HV650- Coating thickness 3~53μm

One-end Step and One-end Internal Thread Type



One-end Step and Two-end Internal Thread Type



① For roundness, straightness, perpendicularity, coaxiality, hardness change, and chromium layer distribution, please refer to the guide shaft product brochure.

② Please note that the hardness of the shaft end processing part (effective thread length + approximately 10mm) may decrease due to the annealing effect of processing. For more details, please refer to the overview of the guide shaft.

③ For precision grade guide shafts, the thread root is equipped with a grinding chamfer (maximum width of 1 mm, maximum depth of 0.1 mm).

④ D=8~30 When, R=0.3; D=35~50 When, R=0.5. ⑤ D=8~18 When, C=0.5; D=20~50 When, C=1.

⑧ One-end Step and One-end Internal Thread Type(Ordinary Grade)

Model	②Dg6	③L	④E	⑤P	⑥N Selection
①Code					
8	-0.005	20~800		6	3 4 5
10	-0.014			6~8	3 4 5 6
12				6~10	4 5 6 8
13		20~1000		6~11	4 5 6 8
15	-0.006			6~13	4 5 6 8 10
16	-0.017			6~14	4 5 6 8 10
18			2S≤4×P	8~16	4 5 6 8 10 12
20		20~1200		8~17	4 5 6 8 10 12
25	-0.007			8~22	4 5 6 8 10 12 16
30	-0.020			9~27	6 8 10 12 16 20
35				9~32	8 10 12 16 20 24
40	-0.009	20~1500		11~37	10 12 16 20 24 30
50	-0.025			11~47	10 12 16 20 24 30

Optional Processing

Code	Technical Specification
Add 2 wrench slot	
Selection Method	SD 12-S8
① Minimum Unit 0.1	
D W V	
8 7 9	
10 8 9	
12 10 11	
13 11 12	
15 13 14	
16 14 11	
18 16 12	
20 17 13	
25 22 16	
30 27 16	
35 30 16	
40 36 21	
50 41 21	

⑧ One-end Step and Two-end Internal Thread Type(Ordinary Grade)

Model	②Dg6	③L	④E	⑤P	⑥M Selection	⑦N Selection
①Code						
8	-0.005	20~800		6	3	3 4 5
10	-0.014			6~8	3 4 5	3 4 5 6
12				6~10	3 4 5 6	4 5 6 8
13		20~1000		6~11	3 4 5 6 8	4 5 6 8
15	-0.006			6~13	3 4 5 6 8 10	4 5 6 8 10
16	-0.017			6~14	3 4 5 6 8 10	4 5 6 8 10
18			2S≤4×P	8~16	4 5 6 8 10 12	4 5 6 8 10 12
20		20~1200		8~17	4 5 6 8 10 12	4 5 6 8 10 12
25	-0.007			8~22	4 5 6 8 10 12 16	4 5 6 8 10 12 16
30	-0.020			9~27	5 6 8 10 12 16 20 24	6 8 10 12 16 20
35				9~32	5 6 8 10 12 16 20 24	8 10 12 16 20 24
40	-0.009	20~1500		11~37	6 8 10 12 16 20 24 30	10 12 16 20 24 30
50	-0.025			11~47	6 8 10 12 16 20 24 30	10 12 16 20 24 30

Change L size tolerance

Selection Method	LC
① Minimum Unit 0.1	
L < 300	Change to L±0.03;
300≤L < 600	Change to L±0.05;
L≥600	Change to L±0.1



Change internal thread to fine thread

Selection Method	NC 14
① When selecting, please change N to NC	
② When selecting, N and NC must be of the same size	
D	NC
12-13	8
15-16	8 10
18	8 10 12
20	8 10 12 14
25-35	8 10 12 14 18
40	10 12 14 18
50	12 14 18
Pitch	1.0 1.25 1.5



⑧ One-end Step and Two-end Internal Thread Type(Precision Grade)

Model	②Dg6	③L	④E	⑤P	⑥M Selection	⑦N Selection
①Code						
8	-0.005	20~300		6	3	3 4 5
10	-0.014			6~8	3 4 5	3 4 5 6
12				6~10	3 4 5 6	4 5 6 8
13		20~350		6~11	3 4 5 6 8	4 5 6 8
15	-0.006			6~13	3 4 5 6 8 10	4 5 6 8 10
16	-0.017		2S≤4×P	6~14	3 4 5 6 8 10	4 5 6 8 10
18				8~16	4 5 6 8 10 12	4 5 6 8 10 12
20		20~450		8~17	4 5 6 8 10 12	4 5 6 8 10 12
25	-0.007			8~22	4 5 6 8 10 12 16	4 5 6 8 10 12 16
30	-0.020			9~27	5 6 8 10 12 16 20 24	6 8 10 12 16 20

① When selecting 2 or more optional processing items, there should be a gap of more than 2mm between each processing area.

② Optional processing may reduce the hardness of the product.