Guide Axis ► Internal Thread on Both Ends • Standard Type
Ordinary Grade/Precision Grade

Please order according to the diagram

❶~❹ Select the type and parameters in the order of for ordering.

Ordinary Grade

Model (❶Code)	–	❷D	–	❸L	–	❹M · N	–	SD LC() MC() · NC()
HAZLN	–	D4	–	L300	–	M2-N2	–	LC

Optional Processing

Price Excluding Tax (Yuan)

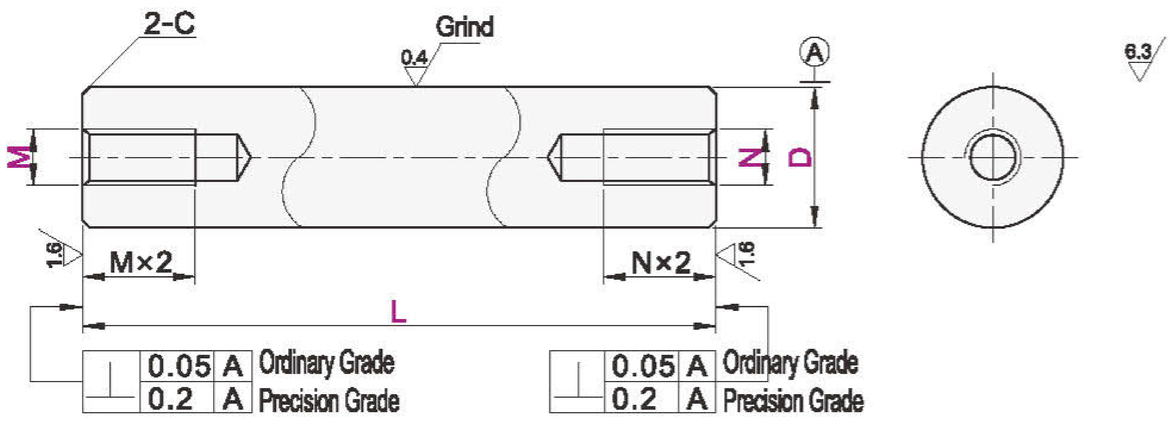
Discounted Price

Quantity	1~9	10~
Price	100%	Separate Quotation

Custom-made / Inventory

CAD 2D 3D

Code	Type		Ordinary Grade	D Tolerance	Material International	Material Equivalent	Hardness	Surface Treatment
HAZLN	Internal Thread on Both Ends	Standard Type	Ordinary Grade	g6	GCr15	SUJ2	High-frequency quenching Effective hardened layer depth see P003 Quenching hardness GCr15 HRC56~ S45C HRC56~ 9Cr18Mo HRC54~	—
HAZLP								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HAZLS					9Cr18Mo	SUS440C		—
HAZLT								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HAZLQ					45	S45C		—
HAZLR								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HAZLJN			Precision Grade		GCr15	SUJ2		—
HAZLJP								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HAZLJS					9Cr18Mo	SUS440C		—
HAZLJT								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm



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

Ordinary Grade

Model ❶Code	❷Dg6		❸L Minimum Unit 1	❹M · N Selection	C
HAZLN HAZLP HAZLS HAZLT HAZLQ HAZLR	4	-0.004 -0.012	15~300	2	0.2
	5		15~400	2.6 3	
	6		15~600	3	
	8	-0.005 -0.014	15~800	3 4 5	
	10			3 4 5 6	
	12	-0.006 -0.017	15~1000	4 5 6 8	0.5
	13			4 5 6 8	
	15		20~1000	4 5 6 8 10	
	16		20~1200	4 5 6 8 10	
	18		25~1200	4 5 6 8 10 12	
	20	-0.007 -0.020		4 5 6 8 10 12	
	25			4 5 6 8 10 12 16	
	30		30~1500	4 5 6 8 10 12 16 20	1.0
	35	-0.009 -0.025		4 5 6 8 10 12 16 20 24	
	40			4 5 6 8 10 12 16 20 24 30	
	50			4 5 6 8 10 12 16 20 24 30	

Precision Grade

Model ❶Code	❷Dg6		❸L Minimum Unit 1	❹M · N Selection	C
HAZLJN HAZLJP HAZLJS HAZLJT	4	-0.004 -0.012	20~200	2	0.2
	5			2.6 3	
	6		20~300	3	
	8	-0.005 -0.014		3 4 5	
	10			3 4 5 6	
	12	-0.006 -0.017	20~350	4 5 6 8	
	13			4 5 6 8	
	15			4 5 6 8 10	
	16			4 5 6 8 10	
	18			4 5 6 8 10 12	
	20	-0.007 -0.020	25~450	4 5 6 8 10 12	
	25			4 5 6 8 10 12 16	
	30			4 5 6 8 10 12 16 20	

Optional Processing

Code	Technical Specification	
SD( )	**Add 2 wrench slot** M Side SD() V V S() W	Selection Method SD12-S8 ❶ Minimum Unit 1 ❶ Applicable to sizes above D5

D	W	V
6	5	9
8	7	
10	8	
12	10	11
13	11	
15	13	
16	14	
18	16	11
20	17	
25	22	
30	27	16
35	30	
40	36	21
50	41	

❶ The two wrench slots are not located on the same plane.

Code	Technical Specification	
LC	**Change L size tolerance** LC	Selection Method LC ❶ Minimum Unit 0.1 ❶ L < 300 Change to $L_{\pm 0.03}$; 300≤L < 600 Change to $L_{\pm 0.05}$; L≥600 Change to $L_{\pm 0.1}$ ❶ Precision Grade is not applicable for L>300
MC( ) NC( )	**Change internal thread to fine thread** MC( ) Fine Thread NC( ) Fine Thread	Selection Method MC12

D	MC·NC				
12·13	8	—	—		
15·16	8	10			
18	8	10	12		
20	8	10	12	16	
25~35	8	10	12	16	20
40	—	10	12	16	20
50		—	12	16	20
Pitch	1.0	1.25	1.5		

❶ When selecting, please change M to MC(NC)
❶ When selecting, M(N) and MC(NC) must be of the same size

- When selecting 2 or more optional processing items, there should be a gap of more than 2mm between each processing area.
- Optional processing may reduce the hardness of the product.