Guide Axis ► Two-end External Thread Type • Type with Chamfer
Ordinary Grade/Precision Grade

Please order according to the diagram

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

❍ Ordinary Grade

Model(❶Code)	—	❷D	—	❸L	—	❹E·F	—	❺M·N	—	❍ Optional Processing MD() NC() SD() LC
HCZGN	—	D8	—	L800	—	E10-F10	—	M6-N6	—	LC

Discounted Price

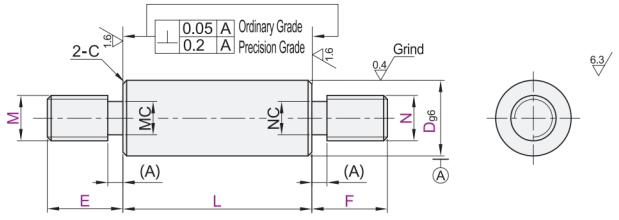
Quantity	1~9	10~
Price	100%	Separate Quotation

Price Excluding Tax (Yuan)

Custom-made Inventory

CAD 2D 3D

Code	Type		Ordinary Grade	D Tolerance	Material International	Material Equivalent	Hardness	Surface Treatment
HCZGN	Two-end External Thread Type	Type with Chamfer	Ordinary Grade	g6	GCr15	SUJ2	High-frequency quenching Effective hardened layer depth see P003	—
HCZGP								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HCZGS					9Cr18Mo	SUS440C	Quenching hardness GCr15 HRC56~ 9Cr18Mo HRC54~	—
HCZGT								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HCZGJN			Precision Grade		GCr15	SUJ2		—
HCZGJP								Hard Chromium Plating,Coating hardness HV850~,Coating thickness 3~53~5μm
HCZGJS					9Cr18Mo	SUS440C		—
HCZGJT								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		Minimum Unit 1 ❸L	❹E.F	❺M · N Selection	C
HCZGN HCZGP HCZGS HCZGT	8	-0.005 -0.014	20~800	5≤E≤3×M 5≤F≤3×N	6	0.5
	10				6 8	
	12				6 8 10	
	13		20~1000		6 8 10 12	
	15	-0.006 -0.017			6 8 10 12	
	16				6 8 10 12	
	18		20~1200		6 8 10 12 16	
	20				6 8 10 12 16	
	25	-0.007 -0.020			8 10 12 16 20 24	1.0
	30				8 10 12 16 20 24	
	35		20~1500		10 12 16 20 24 30	
	40	-0.009 -0.025			12 16 20 24 30	
	50				16 20 24 30	

❍ Precision Grade

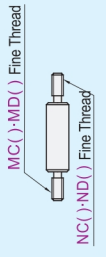
Model ❶Code	❷Dg6		Minimum Unit 1 ❸L	❹E.F	❺M · N Selection	C
HCZGJN HCZGJP HCZGJS HCZGJT	8	-0.005 -0.014	20~300		6	0.2
	10				6 8	
	12				6 8 10	
	13		20~350		6 8 10	
	15	-0.006 -0.017		5≤E≤3×M	6 8 10 12	
	16			5≤F≤3×M	6 8 10 12	
	18				6 8 10 12 16	
	20				6 8 10 12 16	
	25	-0.007 -0.020	20~450		8 10 12 16 20	
	30				8 10 12 16 20 24	

Thread Chamfer Dimension M·N	Pitch	MC·NC	(A)
6	1.0	4.4 (4.2)	2
8	1.25	6.0	3
10	1.5	7.7	
12	1.75	9.4	4
16	2.0	13.0	
20	2.5	16.4	
24	3.0	19.6	5
30	3.5	25.0	

❗ For M6, the internal dimension of MC() is Precision Grade

Optional Processing

Code	Technical Specification
MC( ) MD( ) NC( ) ND( )	Change external thread to fine thread



Selection Method MC12

❗ MC.NC: The pitch of this fine thread corresponds to the bearing screw cap

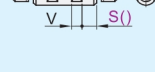
❗ MD.ND: The pitch of this fine thread corresponds to the cylinder

D	MC·NC					MD·ND				
8	6									
10	6	8								
12-13	6	8	10				10			
15-16	6	8	10	12			10	12		
18	6	8	10	12	15		10	12	14	18
20	6	8	10	12	15	17	10	12	14	18
25		8	10	12	15	17	20	10	12	14	18
30		8	10	12	15	17	20	25	10	12	14	18
(35)			10	12	15	17	20	25	30	10	12	14	18
(40)				12	15	17	20	25	30		12	14	18
(50)					15	17	20	25	30			14	18
Pitch	0.75	1.0			1.5		1.25	1.5					

❗ When selecting, please change M to MC(MD) /NC(ND)

❗ The dimension in () is not applicable to Precision Grade

Code	Technical Specification
SD( )	Add 2 wrench slot



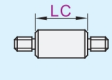
Selection Method SD12-S8

❗ Minimum Unit 0.1

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

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

Code	Technical Specification
LC	Change L size tolerance



Selection Method LC

❗ 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

❗ Precision Grade is not applicable for L>300

❗ 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.