Order guide

BAGA-C2G1 - A - F - Y - D6 - L12 - E - P

- BAGA-C2G1: Major category
- A: Left End Machining
- F: Right End Machining
- Y: Shaft Body Processing
- D6: Diameter
- L12: Length
- E: Step Length
- P: Step Diameter

Please refer to the series code to select the type and parameters for ordering.

Order guide

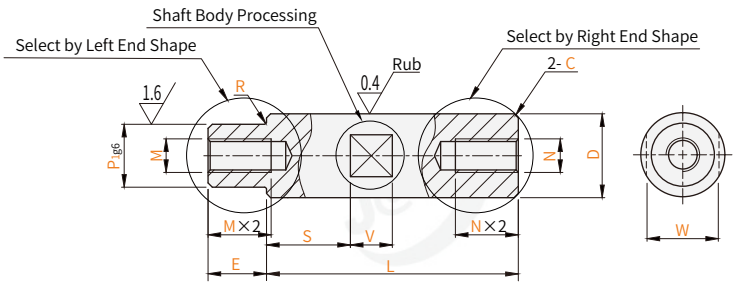
BAGA-C2G1 - M - S

- BAGA-C2G1: Major category
- M: Thread Dimensions
- S: Wrench Slot

Please refer to the series code to select the type and parameters for ordering.

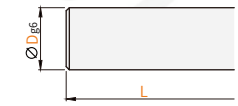
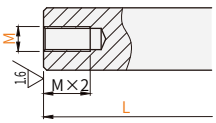
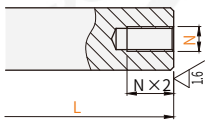
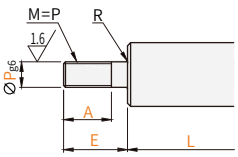
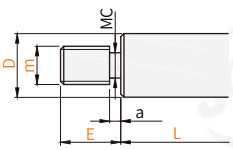
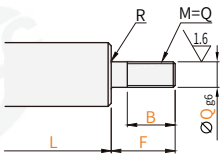
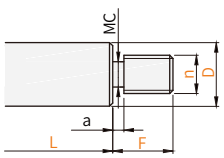
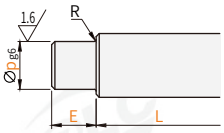
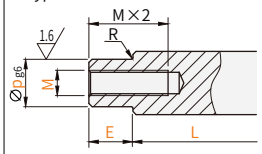
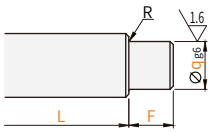
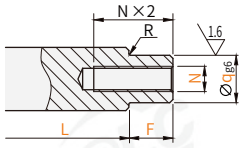
Code	Shaft Diameter Tolerance	Material	Hardness	Surface Treatment	Plating Hardness	Plating Thickness
BAGA-C2G1	g6	S45C	High-Frequency Quenching Quenching Hardness SUJ2 HRC56~ S45C HRC55~ SUS440C HRC54~	Hard Chrome Plating	HV850~	>5μm
BAGA-C2W				—	—	—
BAGA-M1G1		SUJ2		Hard Chrome Plating	HV850~	>5μm
BAGA-M1W				—	—	—
BAGA-S6G1		SUS440C		Hard Chrome Plating	HV850~	>5μm
BAGA-S6W				—	—	—
BAGA-C2	f8	S45C	—	Hard Chrome Plating	HV850~	10~15μm
BAGA-S1		SUS304	—	Hard Chrome Plating		

Please refer to the guide shaft product overview for information on roundness, straightness, perpendicularity, coaxiality, hardness variation, and chrome layer distribution.Select by Left End Shape



Visual standards: first perspective

Diameter D	S	W	V
	Wrench Slot Dimensions		
6	• The S dimension should be specified based on the applicable requirements. • Minimum Unit 1 • Wrench Slot Dimensions Refer to Guide Shaft Product Introduction	5	
8		7	8
10		8	
12		10	
13		11	
15		13	
16		14	10
18		16	
20		17	
25		22	
30		27	15
35		30	
40		36	20
50		41	

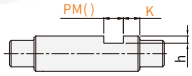
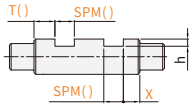
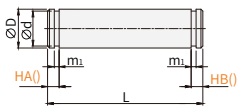
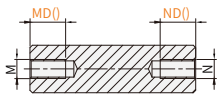
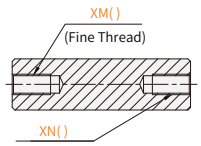
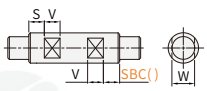
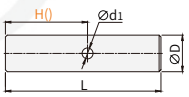
Left End Machining		Right End Machining	
A Type	B Type	A Type	B Type
			
C Type	D Type	C Type	D Type
			
E Type	F Type	E Type	F Type
			

Model	Diameter D	Total Length L	M·N Coarse Thread	m·n·P·Q Coarse Thread
	6	12~700	3	3 4 5
	8	12~900	3 4* 5*	4 5 6
	10		3 4 5 6	5 6 8
BAGA-C2G1	12	12~1000	4 5 6 8	5 6 8 10
BAGA-C2W	13	20~1000	4 5 6 8	5 6 8 10 12
BAGA-M1G1	15		4 5 6 8 10	5 6 8 10 12
BAGA-M1W	16		4 5 6 8 10	5 6 8 10 12
BAGA-S6G1	18※	25~1200	4 5 6 8 10 12	6 8 10 12 16
BAGA-S6W	20		4 5 6 8 10 12	8 10 12 16
BAGA-C2	25	30~1200	4 5 6 8 10 12 16	8 10 12 16 20 24
BAGA-S1	30	30~1500	4 5 6 8 10 12 16 20	8 10 12 16 20 24
	35※		8 10 12 16 20 24	10 12 16 20 24 30
	40※	40~1500	10 12 16 20 24 30	12 16 20 24 30
	50※	50~1500	12 16 20 24 30	16 20 24 30

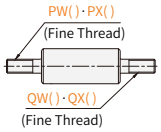
Model	p·q	E·F	A·B	R	C
BAGA-C2G1	• Specify dimensions p·q according to usage requirements. Note: p·q < D	E=5~m*3	• Specify dimensions A·B according to usage requirements. If A·B ⩽ 2 or A·B = E·F arelief groove will be machined by default. If A·B = 0, threading will not be performed.	0.3	0.5
BAGA-C2W		E=5~n*3			
BAGA-M1G1		E=2~P*4			
BAGA-M1W		E=2~Q*4			
BAGA-S6G1		E=2~p*5			
BAGA-S6W		E=2~q*5			
BAGA-C2					1.0
BAGA-S1				0.5	

◉ Only applicable to Type B with * marked
◉ Specifications with ※ are not applicable to BAGA-S1

○ Optional Machining

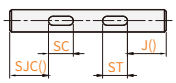
Code	Optional icons	Selection method
PM() SPM()	Add 1 Flat Surface  Add 2 Flat Surfaces 	PM10-K8 SPM10-X-T10 D / h 8~18 / 1 20~40 / 2 50 / 3
HA() HB()	Add a card spring slot 	HA2 HB2 D / HA/HB / m1 / d 6 / 0.7 / 5 8 / 0.9 / 7 10 / 9.6 12 / 11.5 13 / 1.15 / 12.4 15 / 14.3 16 / ● Specify HA/HB dimensions according to applicable requirements / 15.2 18 / 17 20 / Note: L/2 ⩾ HA/HB / 1.35 / 19 25 / 23.9 30 / 1.65 / 28.6 35 / 33 40 / 1.95 / 38 50 / 2.2 / 47
MD() ND()	Change Internal Thread Length 	MD12 ● Minimum unit 1 ● Internal thread at one end: MD + 6 ⩽ L ● Internal threads at both ends: MD + ND + 8 ⩽ L ● Applicable only to Type B and F M / MD/ND 3 / 3~8 4 / 4~12 5 / 5~15 6 / 6~20 8 / 10 / 8~30 12 / 16 / 12~35 20 / 24 / 12~60 30 / 15~80
XM() XN()	Change Internal Thread to Fine Thread  (Fine Thread)	XM12 D / XM 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 ● When selecting, M(N) must be changed to XM(XN) ● When selecting, M(N) and XM(XN) must be the same size ● Applicable only to Type B and F
SBC()	Add a second wrench slot  ● Applicable only to wrench slot types	SBC12-S8 ● Minimum unit 0.1 D / W / V 8 / 7 / 8 10 / 8 12 / 10 13 / 11 / 10 15 / 13 16 / 14 D / W / V 18 / 16 / 10 20 / 17 25 / 22 30 / 27 / 15 35 / 30 40 / 36 / 20 50 / 41
H()	Add side hole 	H4 D / H / d1 8 / 3 10 12 13 / ● Specify H dimension according to applicable requirements / 4 15 16 / Minimum unit 1 18 / L ⩾ H + d/2 + 2 / 6 20 25 / 7 30

Guide Shaft

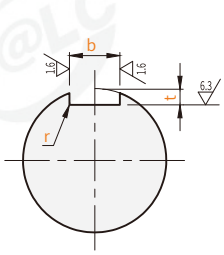
Code	Optional icons	Selection method
LD	Change L dimension tolerance 	LD ● Minimum unit 0.1 ● L < 300 change to L±0.03; 300 ⩽ L < 600 change to L ±0.05; L ⩾ 600 change to L ±0.1
PW() PX() QW() QX()	Change external thread to fine thread 	PW17 ● (PW · QW: This fine thread pitch corresponds to the bearing nut) ● (PX · QX: This fine thread pitch corresponds to the cylinder) ● Applicable only to Type C and D

D	PW · QW					PX · QX		
6	3	4 (5)						
8	3	4	5	6				
10	—	4	5	6	8			
12	—	—	5	6	8	10	10	
13	—	—	5	6	8	10 (12)	10	
15			5	6	8	10 12	10	12
16	—	—	5	6	8	10 12 (15)	10	12 14
18	—	—	5	6	8	10 12 15 (17)	10	12 14
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	0.35	0.5	0.75	1.0		1.5	1.3	1.5

● When selecting, P must be changed to PW(PX)/QW(QX)
● When selecting, P and PW(PX)/QW(QX) must be the same size
● ( ) dimensions not valid for precision grade.

JC() SJC()	Add 1 Keyway Add 2 Keyways 	JC50-S10 SJC50-C8-K40-T10 ● Minimum unit 1 ● When specifying SS · SC · ST, it must be below 100 ● For 3 keyways, please select JC and SJC simultaneously ● Applicable to specifications D6 and above ● For details on keyways, refer to the rotary shaft product introduction ● If the keyway machining distance is less than 1mm, R corners cannot be machined.
PC() QC()	Add Shaft End Keyway (P Section/Q Section) 	PC10-QC10 ● Minimum unit 1 ● PC · QC⩾50, PC · QC⩾E, P(Q)⩽5 not applicable ● For details on keyways, refer to the rotary shaft product introduction ● Applicable only to Type E and D

Technical Parameters



Shaft Diameter	b		t		r
	Nominal Size	Tolerance (N9)	Nominal Size	Tolerance	
6	2	-0.004 -0.029	1.2		
8~10	3		1.8		0.1
11~12	4		2.5	+0.1 0	
13~17	5	0 -0.030	3.0		
18~22	6		3.5		0.2
23~30	8	0 -0.036	4.0		
31~38	10		5.0	+0.2 0	
39~44	12				0.3
45~50	14	0 -0.043	5.5		

Guide Shaft