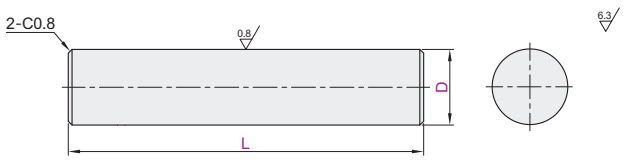
Code	Type	D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAC02	Standard	g6	45	S45C	Electroless Nickel Plating
MAC11			0Cr18Ni9	SUS304	—
MAC22			35CrMo	SCM435 Hardness 28~33 HRC	Electroless Nickel Plating
MAC32		h7	45	S45C	Electroless Nickel Plating
MAC41			0Cr18Ni9	SUS304	—
MAC52		h9	45	S45C	Electroless Nickel Plating
MAC61			0Cr18Ni9	SUS304	—

Processing according to drawings





The first perspective

Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.

g6

Part Number Code	Dg6		0.1 mm Inc. L
MAC02 MAC11 MAC22	2	-0.002 -0.008	12.0~50.0
	2.5		
	3		12.0~150.0
	4		12.0~200.0
	5	-0.004 -0.012	12.0~250.0
	6		18.0~300.0
	8	-0.005 -0.014	18.0~400.0
	10		18.0~500.0
	12		25.0~600.0
	13		
	15	-0.006 -0.017	25.0~700.0
	16		25.0~800.0
	17		
	18		35.0~800.0
	20		
	22	-0.007 -0.020	
	25		45.0~800.0
	30		55.0~800.0
	35		65.0~800.0
	40	-0.009 -0.025	75.0~800.0
	50		95.0~800.0

h9

Part Number Code	Dh9		0.1 mm Inc. L
MAC52 MAC61	3	0 -0.025	12.0~150.0
	4		12.0~200.0
	5	0 -0.030	12.0~250.0
	6		18.0~300.0
	8	0 -0.036	18.0~400.0
	10		18.0~500.0
	12	0 -0.043	25.0~600.0
	15		25.0~700.0
	20		35.0~800.0
	25	0 -0.052	45.0~800.0
	30		55.0~800.0
	35		65.0~800.0
	40	0 -0.062	75.0~800.0
	50		95.0~800.0

Please order as shown

Part Number Code	D	L
MAC02	2 / 2.5	12.0~50.0

MAC02—D2—L30

Optional Processing

Part Number Code	D	L	Optional Processing Code
MAC02	12 / 13	25~600	LA( ) LB( ) KE( ) KB( ) KC( ) KD( )

MAC02—D12—L100—KB50-S10

Discount price

Per	1~4	5~
Price	100%	Additional quotation

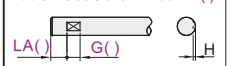
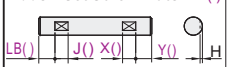
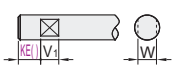
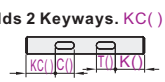
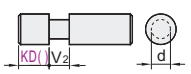
Delivery 4 — No Surface Treatment

Delivery 6 — with Surface Treatment

h7

Part Number Code	Dh7		0.1 mm Inc. L
MAC32 MAC41	6	0 -0.012	18.0~300.0
	8		18.0~400.0
	10	0 -0.015	18.0~500.0
	12		25.0~600.0
	15	0 -0.018	25.0~700.0
	20		35.0~800.0
	25	0 -0.021	45.0~800.0
	30		55.0~800.0
	35		65.0~800.0
	40	0 -0.025	75.0~800.0
	50		95.0~800.0

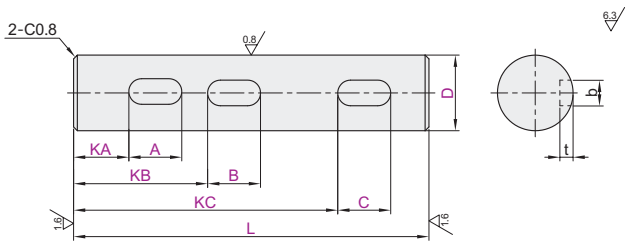
Optional Processing

Code	Spec.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50. ! Not applicable to D2 and D2.5. D: 3~5, 6~17, 18~40, 50 — H: 0.5, 1, 2, 3
KE( )	**Adds a Wrench Flat**  Ordering Code KE5 ! 1 mm Inc. ! Not applicable to D=2~5. D: 6, 8, 10, 12-13, 15-16, 17-18, 20-22, 25, 30, 35, 40, 50 — W: 5, 7, 8, 10, 13, 14, 17, 22, 27, 30, 36, 41 — V1: 5, 10, 15, 20
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1 mm Inc. ! S·T·C ≤100. ! If 3 keyways are required, use both KB() and KC(). ! Not applicable to D=2~5. ! For keyway details, please refer to the product introduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=3~12. D: 3, 4, 5, 6, 8, 10, 12 — d: 2, 3, 4, 5, 7, 8, 10 — V2: 4, 5

Code	Type	D Tolerance	Material		Surface Treatment
			GB	Equiv.	
MAE02	with Keyways	g6	45	S45C	Electroless Nickel Plating
MAE11			0Cr18Ni9	SUS304	—
MAE32		h7	45	S45C	Electroless Nickel Plating
MAE41			0Cr18Ni9	SUS304	—
MAE62		h9	45	S45C	Electroless Nickel Plating

Processing according to drawings





! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.
! For keyway details, please refer to the rotary shafts product introduction.

The first perspective

g6

Part Number Code	D_{g6}	L 0.1 mm Inc.	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
			1 mm Inc.		
MAE02 MAE11	6 -0.004 -0.012	18.0~300.0	KA≥0 b≤A≤100	KB≥0 b≤B≤100	KC≥0 b≤C≤100
	8 -0.005 -0.014	18.0~400.0			
	10	18.0~500.0			
	12	25.0~600.0			
	13				
	15 -0.006 -0.017	25.0~700.0			
	16	25.0~800.0			
	17	35.0~800.0			
	18				
	20				
	22 -0.007 -0.020				
	25	45.0~800.0			
	30	55.0~800.0			
	35	65.0~800.0			
	40 -0.009 -0.025	75.0~800.0			
	50	95.0~800.0			

h9

Part Number Code	D_{h9}	L 0.1 mm Inc.	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
			1 mm Inc.		
MAE62	6 0 -0.030	18.0~300.0	KA≥0 b≤A≤100	KB≥0 b≤B≤100	KC≥0 b≤C≤100
	8 0 -0.036	18.0~400.0			
	10	18.0~500.0			
	12 0 -0.043	25.0~600.0			
	15	25.0~700.0			
	20	35.0~800.0			
	25 0 -0.052	45.0~800.0			
	30	55.0~800.0			
	35 0 -0.062	65.0~800.0			

h7

Part Number Code	D_{h7}	L 0.1 mm Inc.	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
			1 mm Inc.		
MAE32 MAE41	6 0 -0.012	18.0~300.0	KA≥0 b≤A≤100	KB≥0 b≤B≤100	KC≥0 b≤C≤100
	8 0 -0.015	18.0~400.0			
	10	18.0~500.0			
	12 0 -0.018	25.0~600.0			
	15	25.0~700.0			
	20	35.0~800.0			
	25 0 -0.021	45.0~800.0			
	30	55.0~800.0			
	35	65.0~800.0			
	40 0 -0.025	75.0~800.0			
	50	95.0~800.0			

Please order as shown

Part Number Code	D	L	KA·A	KB·B	KC·C
MAE02	6	18~300	KA≥0 b≤A≤100	KB≥0 b≤B≤100	KC≥0 b≤C≤100
	8	18~400			

MAE02—D8—L350—KA10—A10—KB90—B30—KC210—C30

Optional Processing

Part Number Code	D	L	KA·A	KB·B	KC·C	Optional Processing Code
MAE02	6	18~300	KA≥0 b≤A≤100	KB≥0 b≤B≤100	KC≥0 b≤C≤100	LC KD( ) KE( )...
	8	18~400				

MAE02—D8—L350—KA10—A10—KB90—B30—KC210—C30—LC

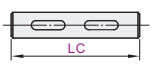
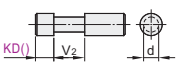
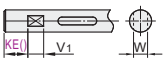
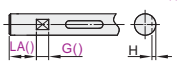
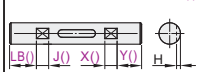
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4 — ! No Surface Treatment

Delivery 6 — ! with Surface Treatment

Optional Processing

Code	Spec.	
LC	**Changes L Dimension Tolerance** 	Ordering Code LC ! L<400 changes to L±0.05 L≥400 changes to L±0.1
KD( )	**Adds a Slit Cam Groove** 	Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12.
KE( )	**Adds a Wrench Flat** 	Ordering Code KE10 ! 1 mm Inc.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( ) 	LA( ):Adds 1 set screw flat Ordering Code LA10-G3 LB( ):Adds 2 set screw flats Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50.
	Adds 2 Set Screw Flats. LB( ) 	

D	d	V_2
6	5	4
8	7	
10	8	5
12	10	

D	W	V_1
6	5	
8	7	8
10	8	
12-13	10	
15-16	13	
17-18	14	10
20-22	17	
25	22	
30	27	15
35	30	
40	36	20
50	41	

D	H
6~17	1
18~40	2
50	3

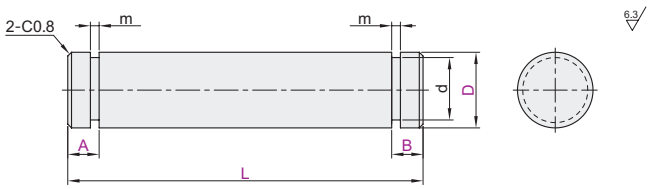
Retaining Ring Grooves on Both Ends
Straight

Code	Type	D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAD02	Retaining Ring Grooves on Both Ends	g6	45	S45C	Electroless Nickel Plating
MAD11			0Cr18Ni9	SUS304	—
MAD22			35CrMo	SCM435 Hardness 28~33 HRC	Electroless Nickel Plating
MAD32		h7	45	S45C	Electroless Nickel Plating
MAD41			0Cr18Ni9	SUS304	—
MAD52		h9	45	S45C	Electroless Nickel Plating
MAD61			0Cr18Ni9	SUS304	—

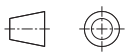
Processing according to drawings



self made



! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.
! For retaining rings details, please refer to the rotary shafts product introduction.



The first perspective

g6

Part Number Code	D_{g6}		0.1 mm Inc. L	1 mm Inc. A·B	Accessory Retaining Ring 2 Pcs.
MAD02 MAD11 MAD22	2	-0.002 -0.008	18.0~50.0		E Type 1.2
	2.5				E Type 1.5
	3		18.0~150.0	3≤A<L/2	E Type 2
	4	-0.004 -0.012	18.0~200.0	3≤B<L/2	E Type 3
	5		18.0~250.0		E Type 4
	6		18.0~300.0		E Type 5
	8	-0.005 -0.014	18.0~400.0	4≤A<L/2	E Type 7
	10		20.0~500.0	4≤B<L/2	C Type 10
	12	-0.006 -0.017	35.0~600.0		C Type 12
	13				C Type 13
	15		45.0~700.0		C Type 15
	16		45.0~800.0	5≤A<L/2	C Type 16
	17			5≤B<L/2	C Type 17
	18		65.0~800.0		C Type 18
	20				C Type 20
	22	-0.007 -0.020			C Type 22
	25				C Type 25
	30		75.0~800.0	6≤A<L/2	C Type 30
	35	-0.009 -0.025		6≤B<L/2	C Type 35
	40				C Type 40
	50		95.0~800.0		C Type 50

h9

Part Number Code	D_{h9}		0.1 mm Inc. L	1 mm Inc. A·B	Accessory Retaining Ring 2 Pcs.
MAD52 MAD61	3	0 -0.025	18.0~150.0		E Type 2
	4		18.0~200.0	3≤A<L/2	E Type 3
	5	0 -0.030	18.0~250.0	3≤B<L/2	E Type 4
	6		18.0~300.0		E Type 5
	8	0 -0.036	18.0~400.0	4≤A<L/2	E Type 7
	10		20.0~500.0	4≤B<L/2	C Type 10
	12	0 -0.043	35.0~600.0	5≤A<L/2	C Type 12
	15		45.0~700.0	5≤B<L/2	C Type 15
	20		65.0~800.0		C Type 20
	25	0 -0.052			C Type 25
	30		75.0~800.0	6≤A<L/2	C Type 30
	35			6≤B<L/2	C Type 35
	40	0 -0.062			C Type 40
	50		95.0~800.0		C Type 50

Please order as shown

Part Number Code	D	L	A·B
MAD02	2	18.0~50.0	3≤A<L/2 3≤B<L/2
	2.5		

MAD02—D2—L30—A12—B12

Optional Processing

Part Number Code	D	L	A·B	Optional Processing Code
MAD02	25	75~800	6≤A<D2 6≤B<L/2	LA( ) LB( ) KE( ) (KB) KC( ) KD( )
	30			

MAD02—D25—L200—A30—B30—KB50-S10

Discount price

Per	1~4	5~
Price	100%	Additional quotation

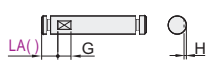
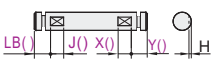
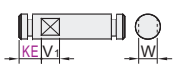
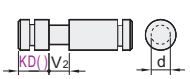
Delivery 4
! No Surface Treatment

Delivery 6
! with Surface Treatment

h7

Part Number Code	D_{h7}		0.1 mm Inc. L	1 mm Inc. A·B	Accessory Retaining Ring 2 Pcs.
MAD32 MAD41	6	0 -0.012	18.0~300.0	3≤A<L/2 3≤B<L/2	E Type 5
	8	0 -0.015	18.0~400.0	4≤A<L/2	E Type 7
	10		20.0~500.0	4≤B<L/2	C Type 10
	12	0 -0.018	35.0~600.0	5≤A<L/2	C Type 12
	15		45.0~700.0	5≤B<L/2	C Type 15
	20		65.0~800.0		C Type 20
	25	0 -0.021			C Type 25
	30		75.0~800.0	6≤A<L/2	C Type 30
	35			6≤B<L/2	C Type 35
	40	0 -0.025			C Type 40
	50		95.0~800.0		C Type 50

Optional Processing

Code	Spec.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50. ! Not applicable to D2 and D2.5. **Adds 2 Set Screw Flats.** LB( ) 
KE( )	**Adds a Wrench Flat**  Ordering Code KE5 ! 1 mm Inc. ! Not applicable to D=2~5.
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1 mm Inc. ! S·T·C≤100. ! If 3 keyways are required, use both KB() and KC(). ! Not applicable to D=2~5. ! For keyway details, please refer to the product introduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=3~12.

D	W	V_1
6	5	
8	7	6
10	8	
12-13	10	
15-16	13	
17-18	14	12
20-22	17	
25	22	
30	27	16
35	30	
40	36	20
50	41	

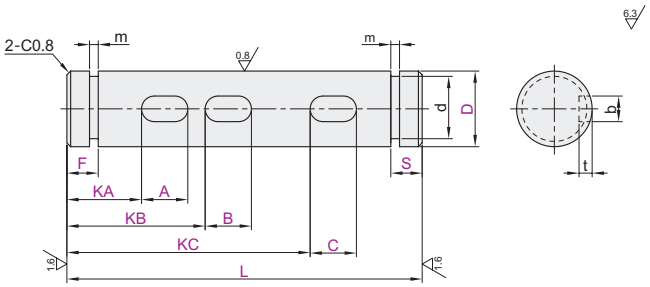
D	d	V_2
3	2	
4	3	
5	4	4
6	5	
8	7	
10	8	5
12	10	

D	H
3~5	0.5
6~17	1
18~40	2
50	3

Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAF02	Retaining Ring Grooves on Both Ends	with keyway	g6	45	S45C	Electroless Nickel Plating
MAF11				0Cr18Ni9	SUS304	—
MAF32			h7	45	S45C	Electroless Nickel Plating
MAF41				0Cr18Ni9	SUS304	—
MAF62			h9	45	S45C	Electroless Nickel Plating

Processing according to drawings





! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.
! For keyway and retaining rings details, please refer to the rotary shafts product introduction.

The first perspective

● g6

Part Number Code	Dg6	L 0.1 mm Inc.	F・S 1 mm Inc.	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C	Retaining Ring No. Accessories: Retaining Rings 2 Pcs
				1 mm Inc.			
	6 -0.004 -0.012	18.0~300.0	3≤F<L/2 3≤S<L/2				TBP12-5
	8 -0.005 -0.014	18.0~400.0	4≤F<L/2				TBP12-7
	10	20.0~500.0	4≤S<L/2				TBP02-10
	12	35.0~600.0					TBP02-12
	13						TBP02-13
	15 -0.006 -0.017	45.0~700.0					TBP02-15
	16	45.0~800.0	5≤F<L/2				TBP02-16
MAF02 MAF11	17		5≤S<L/2	KA≥F b≤A≤100	KB≥F b≤B≤100	KC≥KB+B b≤C≤100	TBP02-17
	18	65.0~800.0					TBP02-18
	20						TBP02-20
	22 -0.007 -0.020						TBP02-22
	25						TBP02-25
	30	75.0~800.0	6≤F<L/2				TBP02-30
	35 -0.009 -0.025		6≤S<L/2				TBP02-35
	40						TBP02-40
	50	95.0~800.0					TBP02-50

! MAF11 cannot select D13, 16, 18, 22.

● h7

Part Number Code	Dh7	L 0.1 mm Inc.	F・S 1 mm Inc.	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C	Retaining Ring No. Accessories: Retaining Rings 2 Pcs
				1 mm Inc.			
	6 0 -0.012	18.0~300.0	3≤F<L/2 3≤S<L/2				TBP12-5
	8 0 -0.015	18.0~400.0	4≤F<L/2				TBP12-7
	10	20.0~500.0	4≤S<L/2				TBP02-10
	12 0 -0.018	35.0~600.0	5≤F<L/2				TBP02-12
	15	45.0~700.0					TBP02-15
MAF32 MAF41	20	55.0~800.0	5≤S<L/2	KA≥F b≤A≤100	KB≥F b≤B≤100	KC≥KB+B b≤C≤100	TBP02-20
	25 0 -0.021						TBP02-25
	30	75.0~800.0	6≤F<L/2				TBP02-30
	35		6≤S<L/2				TBP02-35
	40 0 -0.025						TBP02-40
	50	95.0~800.0					TBP02-50

● h9

Part Number Code	Dh9	L 0.1 mm Inc.	F・S 1 mm Inc.	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C	Retaining Ring No. Accessories: Retaining Rings 2 Pcs
				1 mm Inc.			
	6 0 -0.030	18.0~300.0	3≤F<L/2 3≤S<L/2				TBP12-5
	8	18.0~400.0	4≤F<L/2				TBP12-7
	10 0 -0.036	20.0~500.0	4≤S<L/2				TBP02-10
	12	35.0~600.0	5≤F<L/2				TBP02-12
MAF62	15 0 -0.043	45.0~700.0		KA≥F b≤A≤100	KB≥F b≤B≤100	KC≥KB+B b≤C≤100	TBP02-15
	20	55.0~800.0	5≤S<L/2				TBP02-20
	25 0 -0.052						TBP02-25
	30	75.0~800.0	6≤F<L/2				TBP02-30
	35 0 -0.062		6≤S<L/2				TBP02-35

Optional Processing

Code	Spec.
KD( )	**Adds a Slit Cam Groove** Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12.
KE( )	**Adds a Wrench Flat** Ordering Code KE10 ! 1 mm Inc.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( ) Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50. **Adds 2 Set Screw Flats.** LB( )

D	d	V2
6	5	4
8	7	
10	8	5
12	10	

D	W	V1
6	5	
8	7	10
10	8	
12-13	10	
15-16	13	
17-18	14	12
20-22	17	
25	22	
30	27	16
35	30	
40	36	20
50	41	

D	H
6~17	1
18~40	2
50	3

● Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4 ! No Surface Treatment

Delivery 6 ! with Surface Treatment

Please order as shown

Part Number Code	D	L	F·S	KA·A	KB·B	KC·C
MAF02	6	18~300	3≤F·S<L/2	KA≥F b≤A≤100	KB≥F b≤B≤100	KC≥KB+B b≤C≤100
	8	18~400	4≤F·S≤L/2			

MAF02—D8—L350—F5—S5—KA10—A10—KB90—B30—KC210—C30

● Optional Processing

Part Number Code	D	L	F·S	KA·A	KB·B	KC·C	Optional Processing Code
MAF02	6	18~300	3≤F·S<L/2	KA≥F b≤A≤100	KB≥F b≤B≤100	KC≥KB+B b≤C≤100	CA KD( ) KE( )...
	8	18~400	4≤F·S≤L/2				

MAF02—D8—L350—F5—S5—KA10—A10—KB90—B30—KC210—C30—LA280—G10

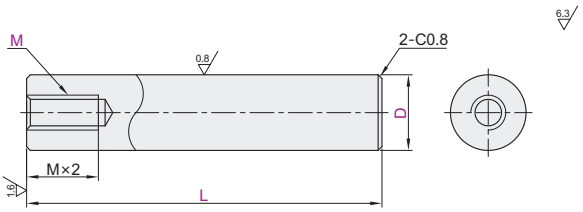
One End Tapped, Standard
Straight

Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAG02	One End Tapped	Standard	g6	45	S45C	Electroless Nickel Plating
MAG16				0Cr18Ni9	SUS304	—
MAG32				35CrMo	SCM435 Hardness 28~33 HRC	Electroless Nickel Plating
MAG42			h7	45	S45C	Electroless Nickel Plating
MAG46				0Cr18Ni9	SUS304	—
MAG72			h9	45	S45C	Electroless Nickel Plating
MAG76				0Cr18Ni9	SUS304	—

Processing according to drawings



self made



D	g6	h7	h9
4~6	-0.004 -0.012	0 -0.012	0 -0.030
8·10	-0.005 -0.014	0 -0.015	0 -0.036
12~18	-0.006 -0.017	0 -0.018	0 -0.043
20~30	-0.007 -0.020	0 -0.021	0 -0.052
35~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.

g6

Part Number Code	D_{g6}	0.1 mm Inc. L	M
MAG02 MAG16 MAG32	4	12.0~200.0	2
	5	12.0~250.0	2.6 3
	6	18.0~300.0	4
	8	18.0~400.0	4 5 6
	10	18.0~500.0	4 5 6
	12	25.0~600.0	5 6 8
	13		5 6 8
	15	25.0~700.0	5 6 8 10
	16	25.0~800.0	5 6 8 10
	17	35.0~800.0	5 6 8 10 12
	18		5 6 8 10 12
	20		5 6 8 10 12 16
	22		5 6 8 10 12 16
	25	45.0~800.0	5 6 8 10 12 16
	30	55.0~800.0	8 10 12 16 20
	35	65.0~800.0	8 10 12 16 20 24
	40	75.0~800.0	12 16 20 24 30
	50	95.0~800.0	16 20 24 30

Please order as shown

Part Number Code	D	L	M
MAG02	12	25.0~600.0	5 6 8
	13		5 6 8

MAG02—D12—L30—M6

Optional Processing

Part Number Code	D	L	M	Optional Processing Code
MAG02	12	25.0~600.0	5 6 8	LC LA( )...
	13		5 6 8	

MAG02—D12—L30—M6—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4

! No Surface Treatment

Delivery 6

! with Surface Treatment

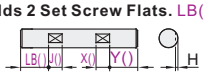
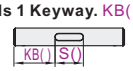
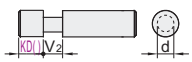
h7

Part Number Code	D_{h7}	0.1 mm Inc. L	M
MAG42 MAG46	4	12.0~200.0	2
	5	12.0~250.0	2.6 3
	6	18.0~300.0	3 4
	8	18.0~400.0	3 4 5 6
	10	18.0~500.0	4 5 6
	12	25.0~600.0	5 6 8
	15	25.0~700.0	5 6 8 10
	20	35.0~800.0	5 6 8 10 12 16
	25	45.0~800.0	5 6 8 10 12 16
	30	55.0~800.0	8 10 12 16 20
	35	65.0~800.0	8 10 12 16 20 24
	40	75.0~800.0	16 20 24 30
	50	95.0~800.0	16 20 24 30

h9

Part Number Code	D_{h9}	0.1 mm Inc. L	M
MAG72 MAG76	4	12.0~200.0	2
	5	12.0~250.0	2.6 3
	6	18.0~300.0	3 4
	8	18.0~400.0	3 4 5 6
	10	18.0~500.0	4 5 6
	12	25.0~600.0	5 6 8
	15	25.0~700.0	5 6 8 10
	20	35.0~800.0	5 6 8 10 12 16
	25	45.0~800.0	5 6 8 10 12 16
	30	55.0~800.0	8 10 12 16 20
	35	65.0~800.0	8 10 12 16 20 24

Optional Processing

Optional Processing	Changes L Dimension Tolerance	Set Screw Flat	Add Keyway	Adds a Slit Cam Groove
	LC	Adds 1 Set Screw Flat. LA( )  Adds 2 Set Screw Flats. LB( ) 	Adds 1 Keyway. KB( )  Adds 2 Keyways. KC( ) 	
Code	LC	LA( )·LB( )	KB( )·KC( )	KD( )
Spec.	Ordering Code LC ! L<400 changes to $L_{\pm 0.05}$ L≥400 changes to $L_{\pm 0.1}$	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50.	Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1 mm Inc. ! S·T·C ≤100. ! If 3 keyways are required, use both KB() and KC(). ! Not applicable to D=4~5. ! For keyway details, please refer to the product introduction.	Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12.

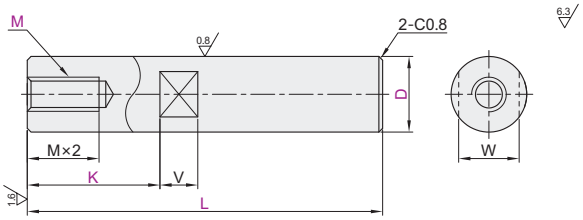
D	H
6~17	1
18~40	2
50	3

D	d	V_2
6	5	4
8	7	
10	8	5
12	10	

Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAG12	One End Tapped	with Wrench Flats	g6	45	S45C	Electroless Nickel Plating
MAG21				0Cr18Ni9	SUS304	—
MAG52			h7	45	S45C	Electroless Nickel Plating
MAG61				0Cr18Ni9	SUS304	—
MAG82			h9	45	S45C	Electroless Nickel Plating
MAG91				0Cr18Ni9	SUS304	—

Processing according to drawings


self made



D	g6	h7	h9
4~6	-0.004 -0.012	0 -0.012	0 -0.030
8·10	-0.005 -0.014	0 -0.015	0 -0.036
12~18	-0.006 -0.017	0 -0.018	0 -0.043
20~30	-0.007 -0.020	0 -0.021	0 -0.052
35~50	-0.009 -0.025	0 -0.025	0 -0.062

! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.

The first perspective

g6

Part Number Code	Dg6	0.1 mm Inc. L	M	Wrench Flats K(1 mm Inc.)	W	V
MAG12 MAG21	6	18.0~300.0	4	K=0 or K≥1	5	12
	8	18.0~400.0	4 5 6		7	
	10	18.0~500.0	4 5 6		8	
	12	25.0~600.0	5 6 8		10	
	13		5 6 8		11	
	15	25.0~700.0	5 6 8 10		13	
	16	25.0~800.0	5 6 8 10		14	
	17	35.0~800.0	5 6 8 10 12		15	
	18		5 6 8 10 12		15	
	20		5 6 8 10 12 16		17	
	22		5 6 8 10 12 16		19	
	25	45.0~800.0	5 6 8 10 12 16		22	
	30	55.0~800.0	8 10 12 16 20		27	16
	35	65.0~800.0	8 10 12 16 20 24		30	
	40	75.0~800.0	12 16 20 24 30		36	20
	50	95.0~800.0	16 20 24 30		41	

Please order as shown

Part Number Code	D	L	M	K(1 mm Inc.)
MAG12	12 13	25.0~600.0	5 6 8	K=0 or K≥1

MAG12—D12—L30—M6—K10

Optional Processing

Part Number Code	D	L	M	K(1 mm Inc.)	Optional Processing Code
MAG12	12 13	25.0~600.0	5 6 8	K=0 or K≥1	LC LA( )...

MAG12—D12—L30—M6—K10—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
! No Surface Treatment

Delivery 6
! with Surface Treatment

h7

Part Number Code	Dh7	0.1 mm Inc. L	M	Wrench Flats K(1 mm Inc.)	W	V
MAG52 MAG61	6	18.0~300.0	3 4	K=0 or K≥1	5	12
	8	18.0~400.0	3 4 5 6		7	
	10	18.0~500.0	4 5 6		8	
	12	25.0~600.0	5 6 8		10	
	15	25.0~700.0	5 6 8 10		13	
	20	35.0~800.0	5 6 8 10 12 16		17	
	25	45.0~800.0	5 6 8 10 12 16		22	
	30	55.0~800.0	8 10 12 16 20		27	16
	35	65.0~800.0	8 10 12 16 20 24		30	
	40	75.0~800.0	16 20 24 30		36	20
	50	95.0~800.0	16 20 24 30		41	

h9

Part Number Code	Dh9	0.1 mm Inc. L	M	Wrench Flats K(1 mm Inc.)	W	V
MAG82 MAG91	6	18.0~300.0	3 4	K=0 or K≥1	5	12
	8	18.0~400.0	3 4 5 6		7	
	10	18.0~500.0	4 5 6		8	
	12	25.0~600.0	5 6 8		10	
	15	25.0~700.0	5 6 8 10		13	
	20	35.0~800.0	5 6 8 10 12 16		17	
	25	45.0~800.0	5 6 8 10 12 16		22	
	30	55.0~800.0	8 10 12 16 20		27	16
	35	65.0~800.0	8 10 12 16 20 24		30	

Optional Processing

	Changes L Dimension Tolerance	Set Screw Flat	Add Keyway	Adds a Slit Cam Groove
Optional Processing	LC	Adds 1 Set Screw Flat. LA( ) Adds 2 Set Screw Flats. LB( )	Adds 1 Keyway. KB( ) Adds 2 Keyways. KC( )	
Code	LC	LA( )·LB( )	KB( )·KC( )	KD( )
Spec.	Ordering Code LC ! L<400 changes to L±0.05 L≥400 changes to L±0.1	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50.	Ordering Code KB50-S10 Ordering Code KC50-C8-F40-T10 ! 1 mm Inc. ! S·T·C ≤100. ! If 3 keyways are required, use both KB() and KC(). ! For keyway details, please refer to the product introduction.	Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12.

D	H
6~17	1
18~40	2
50	3

D	d	V2
6	5	4
8	7	
10	8	5
12	10	

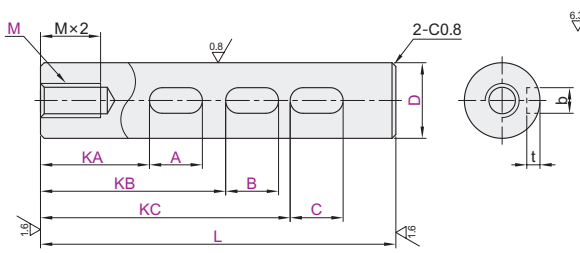
One End Tapped, with Keyways

Straight

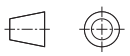
Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAH02	One End Tapped	with Keyway	g6	45	S45C	Electroless Nickel Plating
MAH11				0Cr18Ni9	SUS304	—
MAH32			h7	45	S45C	Electroless Nickel Plating
MAH41				0Cr18Ni9	SUS304	—
MAH62			h9	45	S45C	Electroless Nickel Plating

Processing according to drawings





! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.
! For keyway details, please refer to the rotary shafts product introduction.


The first perspective

g6

Part Number Code	Dg6	L 0.1 mm Inc.	M Selection	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
	6 -0.004 -0.012	18.0~300.0	3 4			
	8 -0.005 -0.014	18.0~400.0	3 4 5 6			
	10	18.0~500.0	4 5 6			
	12	25.0~600.0	5 6 8			
	13		5 6 8			
	15 -0.006 -0.017	25.0~700.0	5 6 8			
	16	25.0~800.0	5 6 8 10			
MAH02 MAH11	17	35.0~800.0	5 6 8 10 12	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	18		5 6 8 10 12			
	20		5 6 8 10 12 16			
	22 -0.007 -0.020		5 6 8 10 12 16			
	25	45.0~800.0	5 6 8 10 12 16			
	30	55.0~800.0	8 10 12 16			
	35	65.0~800.0	8 10 12 16 20			
	40 -0.009 -0.025	75.0~800.0	12 16 20 24			
	50	95.0~800.0	16 20 24 30			

h7

Part Number Code	Dh7	L 0.1 mm Inc.	M Selection	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
	6 0 -0.012	18.0~300.0	3 4			
	8	18.0~400.0	3 4 5 6			
	10 0 -0.015	18.0~500.0	4 5 6			
	12	25.0~600.0	5 6 8			
	15 0 -0.018	25.0~700.0	5 6 8			
MAH32 MAH41	20	35.0~800.0	5 6 8 10	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	25 0 -0.021	45.0~800.0	5 6 8 10 12			
	30	55.0~800.0	8 10 12 16			
	35	65.0~800.0	8 10 12 16 20			
	40 0 -0.025	75.0~800.0	12 16 20 24			
	50	95.0~800.0	16 20 24 30			

h9

Part Number Code	Dh9	L 0.1 mm Inc.	M Selection	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
	6 0 -0.030	18.0~300.0	3 4			
	8	18.0~400.0	3 4 5 6			
	10 0 -0.036	18.0~500.0	4 5 6			
	12	25.0~600.0	5 6 8			
MAH62	15 0 -0.043	25.0~700.0	5 6 8	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	20	35.0~800.0	5 6 8 10			
	25 0 -0.052	45.0~800.0	5 6 8 10 12			
	30	55.0~800.0	8 10 12 16			
	35 0 -0.062	65.0~800.0	8 10 12 16 20			

Please order as shown

Part Number Code	D	L	M Selection	KA·A	KB·B	KC·C
MAH02	6	18~300	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	8	18~400	3 4 5 6			

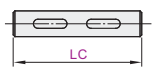
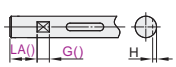
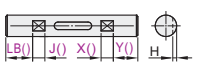
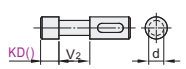
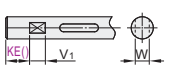
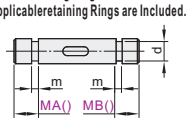
MAH02—D8—L350—M4—KA10—A10—KB90—B30—KC210—C30

Optional Processing

Part Number Code	D	L	M Selection	KA·A	KB·B	KC·C	Optional Processing Code
MAH02	6	18~300	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120	LC KD( ) KE( )...
	8	18~400	3 4 5 6				

MAH02—D8—L350—M4—KA10—A10—KB90—B30—KC210—C30—LC

Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC ! L<400 changes to L±0.05 L≥400 changes to L±0.1
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( )  LA( ):Adds 1 set screw flat Ordering Code LA10-G3 LB( ):Adds 2 set screw flats Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50. D / H: 6~17 / 1; 18~40 / 2; 50 / 3
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12. D / d / V2: 6 / 5 / 4; 8 / 7; 10 / 8 / 5; 12 / 10
KE( )	**Adds a Wrench Flat**  Ordering Code KE10 ! 1 mm Inc. D / W / V1: 6 / 5; 8 / 7 / 10; 10 / 8; 12·13 / 10; 15·16 / 13; 17·18 / 14 / 12; 20·22 / 17; 25 / 22; 30 / 27 / 16; 35 / 30; 40 / 36 / 20; 50 / 41
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicableretaining Rings are Included.)**  Ordering Code MA10—MB10 ! 1 mm Inc. ! For retaining ring groove details, please refer to the product introduction. ! MA(MB)=4~L/2

Discount price

Per	1~4	5~
Price	100%	Additional quotation

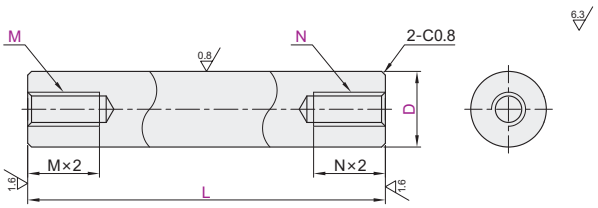
Delivery 4 — ! No Surface Treatment

Delivery 6 — ! with Surface Treatment

Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAI02	Both Ends Tapped	Standard	g6	45	S45C	Electroless Nickel Plating
MAI16				0Cr18Ni9	SUS304	—
MAI22				35CrMo	SCM435 Hardness 28~33 HRC	Electroless Nickel Plating
MAI42			h7	45	S45C	Electroless Nickel Plating
MAI46				0Cr18Ni9	SUS304	—
MAI62			h9	45	S45C	Electroless Nickel Plating
MAI66				0Cr18Ni9	SUS304	—

Processing according to drawings





D	g6	h7	h9
4~6	-0.004 -0.012	0 -0.012	0 -0.030
8·10	-0.005 -0.014	0 -0.015	0 -0.036
12~18	-0.006 -0.017	0 -0.018	0 -0.043
20~30	-0.007 -0.020	0 -0.021	0 -0.052
35~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.

g6

Part Number Code	Dg6	0.1 mm Inc. L	M·N
MAI02 MAI16 MAI22	4	12.0~200.0	2
	5	12.0~250.0	2 6 3
	6	18.0~300.0	4
	8	18.0~400.0	4 5 6
	10	18.0~500.0	4 5 6
	12	25.0~600.0	5 6 8
	13		5 6 8
	15	25.0~700.0	5 6 8 10
	16	25.0~800.0	5 6 8 10
	17	35.0~800.0	5 6 8 10 12
	18		5 6 8 10 12
	20		5 6 8 10 12 16
	22		5 6 8 10 12 16
	25	45.0~800.0	5 6 8 10 12 16
	30	55.0~800.0	8 10 12 16 20
	35	65.0~800.0	8 10 12 16 20 24
	40	75.0~800.0	12 16 20 24 30
	50	95.0~800.0	16 20 24 30

Please order as shown

Part Number Code	D	L	M·N
MAI02	12	25.0~600.0	5 6 8
	13		5 6 8

MAI02—D12—L30—M6—N6

Optional Processing

Part Number Code	D	L	M·N	Optional Processing Code
MAI02	12	25.0~600.0	5 6 8	LC LA()···
	13		5 6 8	

MAI02—D12—L30—M6—N6—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
No Surface Treatment

Delivery 6
with surface treatment

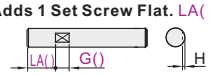
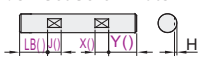
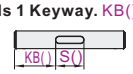
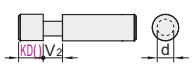
h7

Part Number Code	Dh7	0.1 mm Inc. L	M·N
MAI42 MAI46	4	12.0~200.0	2
	5	12.0~250.0	2 6 3
	6	18.0~300.0	3 4
	8	18.0~400.0	3 4 5 6
	10	18.0~500.0	4 5 6
	12	25.0~600.0	5 6 8
	15	25.0~700.0	5 6 8 10
	20	35.0~800.0	5 6 8 10 12 16
	25	45.0~800.0	5 6 8 10 12 16
	30	55.0~800.0	8 10 12 16 20
	35	65.0~800.0	8 10 12 16 20 24
	40	75.0~800.0	12 16 20 24 30
	50	95.0~800.0	16 20 24 30

h9

Part Number Code	Dh9	0.1 mm Inc. L	M·N
MAI62 MAI66	4	12.0~200.0	2
	5	12.0~250.0	2 6 3
	6	18.0~300.0	3 4
	8	18.0~400.0	3 4 5 6
	10	18.0~500.0	4 5 6
	12	25.0~600.0	5 6 8
	15	25.0~700.0	5 6 8 10
	20	35.0~800.0	5 6 8 10 12 16
	25	45.0~800.0	5 6 8 10 12 16
	30	55.0~800.0	8 10 12 16 20
	35	65.0~800.0	8 10 12 16 20 24
	40	75.0~800.0	12 16 20 24 30
	50	95.0~800.0	16 20 24 30

Optional Processing

	Changes L Dimension Tolerance	Set Screw Flat	Add Keyway	Adds a Slit Cam Groove
Optional Processing	LC	Adds 1 Set Screw Flat. LA( )  Adds 2 Set Screw Flats. LB( ) 	Adds 1 Keyway. KB()  Adds 2 Keyways. KC( ) 	
Code	LC	LA( )·LB( )	KB( )·KC( )	KD( )
Spec.	Ordering Code LC L<400 changes to L±0.05 L≥400 changes to L±0.1	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 1 mm Inc. G·J·X ≤50.	Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 1 mm Inc. S·T·C ≤100. If 3 keyways are required, use both KB() and KC(). Not applicable to D=4~5. For keyway details, please refer to the product introduction.	Ordering Code KD10 1 mm Inc. Only applicable to D=6~12.

D	H
6~17	1
18~40	2
50	3

D	d	V2
6	5	4
8	7	
10	8	5
12	10	

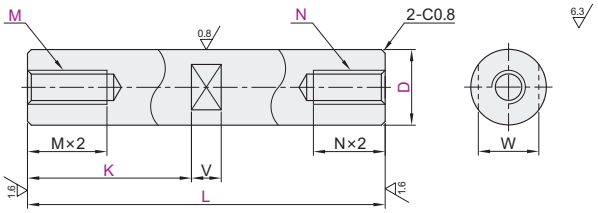
Both Ends Tapped, with Wrench Flats

Straight

Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAI12	Both Ends Tapped	with Wrench Flats	g6	45	S45C	Electroless Nickel Plating
MAI26				0Cr18Ni9	SUS304	—
MAI52			h7	45	S45C	Electroless Nickel Plating
MAI56				0Cr18Ni9	SUS304	—
MAI72			h9	45	S45C	Electroless Nickel Plating
MAI76				0Cr18Ni9	SUS304	—

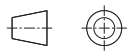
Processing according to drawings





D	g6	h7	h9
4~6	-0.004 -0.012	0 -0.012	0 -0.030
8·10	-0.005 -0.014	0 -0.015	0 -0.036
12~18	-0.006 -0.017	0 -0.018	0 -0.043
20~30	-0.007 -0.020	0 -0.021	0 -0.052
35~50	-0.009 -0.025	0 -0.025	0 -0.062

! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products 。



g6

Part Number Code	Dg6	0.1 mm Inc. L	M·N	Wrench Flats K(mm Inc.)	W	V
MAI12 MAI26	6	18.0~300.0	4	K=0 or K≥1	5	
	8	18.0~400.0	4 5 6		7	10
	10	18.0~500.0	4 5 6		8	
	12	25.0~600.0	5 6 8		10	
	13		5 6 8		11	
	15	25.0~700.0	5 6 8 10		13	
	16	25.0~800.0	5 6 8 10		14	12
	17	35.0~800.0	5 6 8 10 12			
	18		5 6 8 10 12		15	
	20		5 6 8 10 12 16		17	
	22		5 6 8 10 12 16		19	
	25	45.0~800.0	5 6 8 10 12 16		22	
	30	55.0~800.0	8 10 12 16 20		27	16
	35	65.0~800.0	8 10 12 16 20 24		30	
	40	75.0~800.0	12 16 20 24 30		36	20
	50	95.0~800.0	16 20 24 30		41	

Please order as shown

Part Number Code	D	L	M·N	K
MAI12	12 13	25.0~600.0	5 6 8 5 6 8	K=0 or K≥1

MAI12—D12—L30—M6—N6—K10

Optional Processing

Part Number Code	D	L	M·N	K	Optional Processing code
MAI12	12 13	25.0~600.0	5 6 8 5 6 8	K=0 or K≥1	LC LA()···

MAI12—D12—L30—M6—N6—K10—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 6

h7

Part Number Code	Dh7	0.1 mm Inc. L	M·N	Wrench Flats K(1 mm Inc.)	W	V
MAI52 MAI56	6	18.0~300.0	3 4	K=0 or K≥1	5	
	8	18.0~400.0	3 4 5 6		7	10
	10	18.0~500.0	4 5 6		8	
	12	25.0~600.0	5 6 8		10	
	15	25.0~700.0	5 6 8 10		13	12
	20	35.0~800.0	5 6 8 10 12 16		17	
	25	45.0~800.0	5 6 8 10 12 16		22	
	30	55.0~800.0	8 10 12 16 20		27	16
	35	65.0~800.0	8 10 12 16 20 24		30	
	40	75.0~800.0	12 16 20 24 30		36	20
	50	95.0~800.0	16 20 24 30		41	

h9

Part Number Code	Dh9	0.1 mm Inc. L	M·N	Wrench Flats K(1 mm Inc.)	W	V
MAI72 MAI76	6	18.0~300.0	3 4	K=0 or K≥1	5	
	8	18.0~400.0	3 4 5 6		7	10
	10	18.0~500.0	4 5 6		8	
	12	25.0~600.0	5 6 8		10	
	15	25.0~700.0	5 6 8 10		13	12
	20	35.0~800.0	5 6 8 10 12 16		17	
	25	45.0~800.0	5 6 8 10 12 16		22	
	30	55.0~800.0	8 10 12 16 20		27	16
	35	65.0~800.0	8 10 12 16 20 24		30	
	40	75.0~800.0	12 16 20 24 30		36	20
	50	95.0~800.0	16 20 24 30		41	

Optional Processing

Optional Processing	Changes L Dimension Tolerance	Set Screw Flat	Add Keyway	Adds a Slit Cam Groove
	LC	Adds 1 Set Screw Flat. LA( ) LA() G() H Adds 2 Set Screw Flats. LB( ) LB() J() X() Y() H	Adds 1 Keyway. KB() KB() S() Adds 2 Keyways. KC( ) KC() C() T() K()	KD() V2 d
Code	LC	LA( )·LB( )	KB( )·KC( )	KD( )
Spec.	Ordering Code LC ! L<400 changes to L±0.05 L≥400 changes to L±0.1	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50.	Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1 mm Inc. ! S·T·C ≤100. ! If 3 keyways are required, use both KB() and KC(). ! For keyway details, please refer to the product introduction.	Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12.

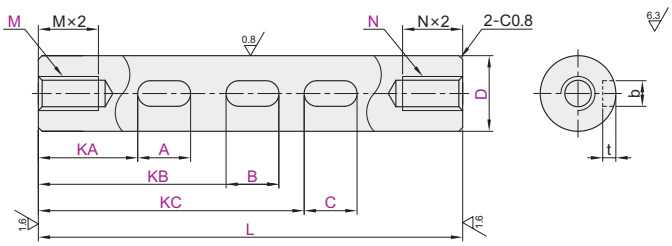
D	H
6~17	1
18~40	2
50	3

D	d	V2
6	5	4
8	7	
10	8	5
12	10	

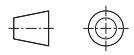
Code	Type		D Tolerance	Material GB	Material Equiv.	Surface Treatment
MAN02	Both Ends Tapped	with Keyway	g6	45	S45C	Electroless Nickel Plating
MAN11				0Cr18Ni9	SUS304	—
MAN32			h7	45	S45C	Electroless Nickel Plating
MAN41				0Cr18Ni9	SUS304	—
MAN62			h9	45	S45C	Electroless Nickel Plating

Processing according to drawings


self made



! Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.
! For keyway details, please refer to the rotary shafts product introduction.


The first perspective

● g6

Part Number Code	D_{g6}	L 0.1 mm Inc.	M·N Selection	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
				1 mm Inc.		
MAN02 MAN11	6 -0.004 -0.012	18.0~300.0	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	8 -0.005	18.0~400.0	3 4 5 6			
	10 -0.014	18.0~500.0	4 5 6			
	12	25.0~600.0	5 6 8			
	13		5 6 8			
	15 -0.006	25.0~700.0	5 6 8			
	16 -0.017	25.0~800.0	5 6 8 10			
	17	35.0~800.0	5 6 8 10 12			
	18		5 6 8 10 12			
	20		5 6 8 10 12 16			
	22 -0.007		5 6 8 10 12 16			
	25 -0.020	45.0~800.0	5 6 8 10 12 16			
	30	55.0~800.0	8 10 12 16			
	35	65.0~800.0	8 10 12 16 20			
	40 -0.009 -0.025	75.0~800.0	12 16 20 24			
	50	95.0~800.0	16 20 24 30			

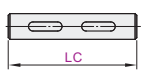
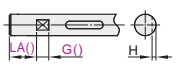
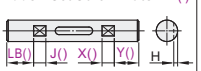
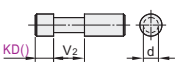
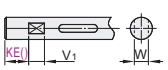
● h7

Part Number Code	D_{h7}	L 0.1 mm Inc.	M·N Selection	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
				1 mm Inc.		
MAN32 MAN41	6 0 -0.012	18.0~300.0	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	8 0 -0.015	18.0~400.0	3 4 5 6			
	10	18.0~500.0	4 5 6			
	12 0 -0.018	25.0~600.0	5 6 8			
	15	25.0~700.0	5 6 8			
	20	35.0~800.0	5 6 8 10			
	25 0 -0.021	45.0~800.0	5 6 8 10 12			
	30	55.0~800.0	8 10 12 16			
	35	65.0~800.0	8 10 12 16 20			
	40 0 -0.025	75.0~800.0	12 16 20 24			
	50	95.0~800.0	16 20 24 30			

● h9

Part Number Code	D_{h9}	L 0.1 mm Inc.	M·N Selection	Keyway① KA·A	Keyway② KB·B	Keyway③ KC·C
				1 mm Inc.		
MAN62	6 0 -0.030	18.0~300.0	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	8 0 -0.036	18.0~400.0	3 4 5 6			
	10	18.0~500.0	4 5 6			
	12 0 -0.043	25.0~600.0	5 6 8			
	15	25.0~700.0	5 6 8			
	20	35.0~800.0	5 6 8 10			
	25 0 -0.052	45.0~800.0	5 6 8 10 12			
	30	55.0~800.0	8 10 12 16			
	35 0 -0.062	65.0~800.0	8 10 12 16 20			

Optional Processing

Code	Spec.	
LC	**Changes L Dimension Tolerance** 	Ordering Code LC ! L<400 changes to $L_{\pm 0.05}$ L≥400 changes to $L_{\pm 0.1}$
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( ) 	LA( ):Adds 1 set screw flat Ordering Code LA10-G3 LB( ):Adds 2 set screw flats Ordering Code LB10-J3-Y10-X3 ! 1 mm Inc. ! G·J·X ≤50.
	Adds 2 Set Screw Flats. LB( ) 	D / H: 6~17 / 1; 18~40 / 2; 50 / 3
KD( )	**Adds a Slit Cam Groove** 	Ordering Code KD10 ! 1 mm Inc. ! Only applicable to D=6~12.
KE( )	**Adds a Wrench Flat** 	Ordering Code KE10 ! 1 mm Inc.

D	d	V2
6	5	4
8	7	
10	8	5
12	10	

D	W	V1
6	5	
8	7	10
10	8	
12-13	10	
15-16	13	
17-18	14	12
20-22	17	
25	22	
30	27	16
35	30	
40	36	20
50	41	

Please order as shown

Part Number Code	D	L	M·N Selection	KA·A	KB·B	KC·C
MAN02	6	18~300	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120
	8	18~400	3 4 5 6			

MAN02—D8—L350—M4—N4—KA10—A10—KB90—B30—KC210—C30

● Optional Processing

Part Number Code	D	L	M·N Selection	KA·A	KB·B	KC·C	Optional Processing Code
MAN02	6	18~300	3 4	KA≥0 b≤A≤120	KB≥KA+A b≤B≤120	KC≥KB+B b≤C≤120	LC KD( ) KE( )...
	8	18~400	3 4 5 6				

MAN02—D8—L350—M4—N4—KA10—A10—KB90—B30—KC210—C30—LC

● Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
! No Surface Treatment

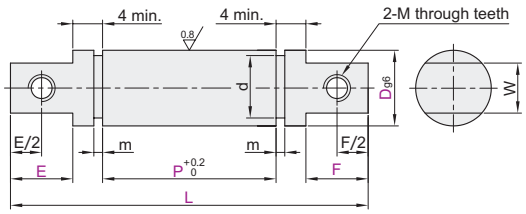
Delivery 6
! with Surface Treatment

Shafts for Tension	Rotary Shafts	Material		Surface Treatment	Shafts for Tension	
Pull, Retaining Ring Groove	D-Cut	GB	Equiv.		Accessories	Accessories Material
MAJ02	MAK02	45	S45C	Electroless Nickel Plating	Retaining Ring 2 pcs	SUS304
MAJ11	MAK11	0Cr18Ni9	SUS304	—		

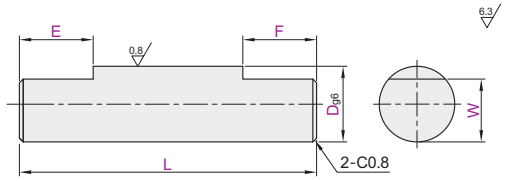
Processing according to drawings



Shafts for Tension
(Pull, Retaining Ring Groove)
MAJ02/11



Rotary Shafts
(D-Cut)
MAK02/11



The first perspective

Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.

Shafts for Tension(Pull, Retaining Ring Groove)

Part Number Code	Dg6		1 mm Inc. L	E·F	P	M	W	d		m	
MAJ02 MAJ11	8	-0.005 -0.014	18~400	8~30	2~370	3	7	7	+0.09 0	0.9	+0.1 0
	10		25~500	10~30	4~470	4	8	9.6	0 -0.09		
	12		25~500			4 5	9	11.5		1.15	
	15	-0.006 -0.017	25~600			4 5 6	12	14.3	0 -0.11		
	17		35~600			5 6 8	13	16.2			+0.14 0
	20		35~600	15~50	8~550	6 8 10	16	19		1.35	
	25	-0.007 -0.020	45~600			8 10 12	20	23.9	0 -0.21		
	30		55~600				25	28.6		1.65	

Rotary Shafts(D-Cut)

Part Number Code	Dg6		0.1 mm Inc. L	E·F	W
MAK02 MAK11	6	-0.004 -0.012	18.0~300.0		4~5
	8	-0.005 -0.014	18.0~400.0	2.0~30.0	5~7
	10		18.0~500.0		7~9
	12		25.0~600.0		9~11
	13				10~12
	15	-0.006 -0.017	25.0~700.0	2.0~54.0	12~14
	16				13~15
	17				14~16
	18		35.0~800.0		15~17
	20				15~18
	22	-0.007 -0.020	45.0~800.0	2.0~90.0	17~20
	25				20~23
	30		55.0~800.0		25~28

When L> 600, the processed D-Cut ends are not fully aligned. (It may cause a misalignment of up to 1 °.)

Please order as shown

Shafts for Tension

Part Number Code	D	L	E·F	P	M
MAJ02	8	18~400	7~30	3~370	3
	10	25~500	10~30	5~470	4

MAJ02—D10—L200—E30—F30—P100—M4

Rotary Shafts

Part Number Code	D	L	E·F	W
MAK02	6	18~300	2~30	4~5
	8	18~400		5~7

MAK02—D8—L50—E8—F8—W5

Optional Processing (Shafts for Tension)

Part Number Code	D	L	E·F	P	M	Optional Processing Code
MAJ02	8	18~400	7~30	3~370	3	LC LA( )...
	10	25~500	10~30	5~470	4	

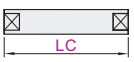
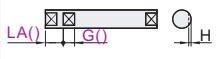
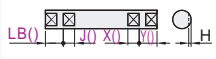
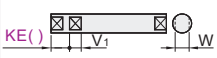
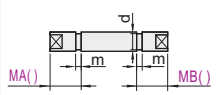
MAJ02—D10—L200—E30—F30—P100—M4—LC

Optional Processing (Rotary Shafts)

Part Number Code	D	L	E·F	W	Optional Processing Code
MAK02	6	18~300	2~30	4~5	LC LA( )...
	8	18~400		5~7	

MAK02—D8—L50—E8—F8—W5—LC

Optional Processing

Code	Spec.	
LC	**Changes L Dimension Tolerance** 	Ordering Code LC L<400 changes to L±0.05 L≥400 changes to L±0.1
LA( ) LB( )	**Set Screw Flat** **Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( ) 	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 1 mm Inc. G·J·X ≤50. D / H: 6~17 / 1; 18~40 / 2
KE( )	**Adds a Wrench Flat** 	Ordering Code KE10 1 mm Inc. D / W / V1: 6 / 5 / ; 8 / 7 / 6; 10 / 8 / ; 12·13 / 10 / ; 15·16 / 13 / ; 17·18 / 14 / 12; 20·22 / 17 / ; 25 / 22 / ; 30 / 27 / 16
MA( ) MB( )	**Adds a Retaining Ring Groove** 	Ordering Code MA10-MB10 1 mm Inc. MA(MB)=4~L/2 For retaining ring groove details, please refer to the product introduction. Not applicable to Shafts for Tension.
MD	**Cancel Retaining Ring Groove**	Ordering Code MD Cancel retaining ring groove. Only for Shafts for Tension.

Discount price

Per	1~4	5~
Price	100%	Additional quotation

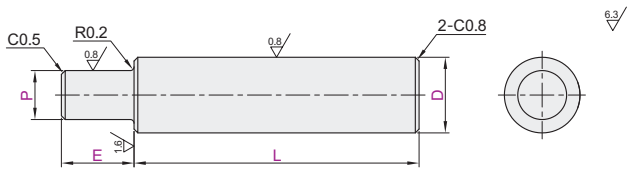
Delivery 4
No Surface Treatment

Delivery 6
with Surface Treatment

Code	Type	Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBC02	Standard	g6	g6	45	S45C	Electroless Nickel Plating
MBC11				0Cr18Ni9	SUS304	—
MBC32		h7	h7	45	S45C	Electroless Nickel Plating
MBC41				0Cr18Ni9	SUS304	—
MBC61		h9	g6	0Cr18Ni9	SUS304	—
MBC72			h7	45	S45C	Electroless Nickel Plating
MBC81				0Cr18Ni9	SUS304	—

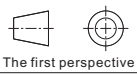
Processing according to drawings





D·P	g6	h7	h9
3	-0.002 -0.018	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

! Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.



g6

Part Number Code	D_{g6}	0.1 mm Increment L	0.1 mm Increment E	1 mm Increment P
MBC02 MBC11	6	18.0~300.0	1≤E≤P×6	2 3 4 5
	8	18.0~400.0		3≤P<D
	10	18.0~500.0		
	12	20.0~600.0		
	13			
	15	20.0~700.0		
	16	20.0~800.0		4≤P<D
	17			
	18			
	20	25.0~800.0		
	22			
	25			8≤P<D
	30			
	35			
	40	35.0~800.0		15≤P<D
	50			

h7

Part Number Code	D_{h7}	0.1 mm Increment L	0.1 mm Increment E	1 mm Increment P
MBC32 MBC41	6	18.0~300.0	1≤E≤P×6	2 3 4 5
	8	18.0~400.0		3≤P<D
	10	18.0~500.0		
	12			
	15	20.0~700.0		4≤P<D
	20			
	25	25.0~800.0		8≤P<D
	30			
	35			
	40	35.0~800.0		15≤P<D
	50			

h9

Part Number Code	D_{h9}	L	E	P
MBC61 MBC72 MBC81	6	18.0~300.0	1≤E≤P×6	2 3 4 5
	8	18.0~400.0		3≤P<D
	10	18.0~500.0		
	12	20.0~600.0		
	15	20.0~700.0		4≤P<D
	20			
	25	25.0~800.0		8≤P<D
	30			
	35	35.0~800.0		15≤P<D

Please order as shown

Part Number Code	D	L	E	P
MBC02	12	20~600	1≤E≤P×6	4≤P≤D
	13			
	15	20~700		

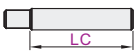
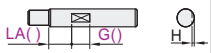
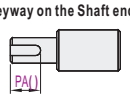
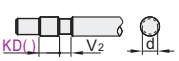
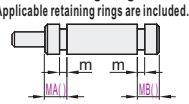
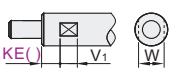
MBC02—D12—L100—E15—P8

Optional Processing

Part Number Code	D	L	E	P	Optional Processing Code
MBC02	12	20~600	1≤E≤P×6	4≤P≤D	LC LA() LB()...
	13				
	15	20~700			

MBC02—D12—L100—E15—P8—LC

Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC ! L<400 changes to L±0.05 L≥400 changes to L±0.1
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1mm Increment ! G·J·X ≤50. **Adds 2 Set Screw Flats.** LB( )  D / H: 6~17 / 1; 18~40 / 2; 50 / 3
KB( ) KC( )	**Adds 1 Keyway.** KB()  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1mm Increment ! S·T·C ≤100. ! If 3 keyways are required, use both KB() and KC(). ! For keyway details, please refer to the product introduction.
PA( )	**Adds a Keyway on the Shaft end P** P Side  Ordering Code PA10 ! 1mm Increment ! PA≥50, PA≥E, P≤5 not applicable. ! For keyway details, please refer to the product introduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 ! 1 mm Increment ! Only applicable to D=6~12. D / d / V2: 6 / 5 / 4; 8 / 7; 10 / 8 / 5; 12 / 10
MA( ) MB( )	**Adds a Retaining Ring Groove.** (Applicable retaining rings are included.)  Ordering Code MA10—MB10 ! 1mm Increment ! MA(MB)=4~L/2 ! For retaining ring groove details, please refer to the product introduction.
KE( )	**Adds a Wrench Flat**  Ordering Code KE10 ! 1mm Increment D / W / V1: 6 / 5 / 10; 8 / 7; 10 / 8; 12-13 / 10; 15-16 / 13 / 12; 17-18 / 14. D / W / V1: 20-22 / 17 / 12; 25 / 22; 30 / 27 / 16; 35 / 30; 40 / 36 / 20; 50 / 41

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4 — ! No Surface Treatment

Delivery 6 — ! with Surface Treatment

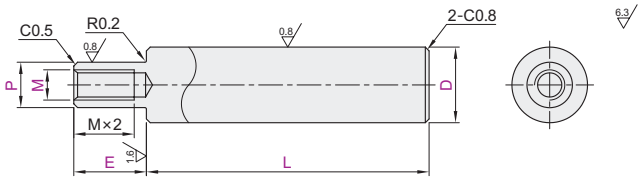
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Standard
One End Stepped and Tapped

Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBJ02	One End Stepped and Tapped	Standard	g6	g6	45	S45C	Electroless Nickel Plating
MBJ16					0Cr18Ni9	SUS304	—
MBJ42			h7	h7	45	S45C	Electroless Nickel Plating
MBJ62			h9	g6	45	S45C	Electroless Nickel Plating
MBJ66					0Cr18Ni9	SUS304	—
MBJ82				h7	45	S45C	Electroless Nickel Plating
MBJ86					0Cr18Ni9	SUS304	—

Processing according to drawings





D·P	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.

g6

Part Number Code	D_{g6}	0.1 mm Increment L	E	1 mm Inc. P	M
	6	18.0~300.0		5	3
	8	18.0~400.0			3 4 5
	10	18.0~500.0		When M3~M8 M+2≤P<D	4 5 6
	12	20.0~600.0			5 6 8
	13				5 6 8
	15	20.0~700.0		When M10~M16 M+2≤P<D	5 6 8 10
	16				5 6 8 10
MBJ02 MBJ16	17		1≤E≤P×6		5 6 8 10 12
	18			When M20·24 M+2≤P<D	5 6 8 10 12
	20	25.0~800.0			5 6 8 10 12
	22				5 6 8 10 12 16
	25			When M30 M+2≤P<D	5 6 8 10 12 16
	30				8 10 12 16 20
	35				8 10 12 16 20 24
	40	35.0~800.0			12 16 20 24 30
	50				16 20 24 30

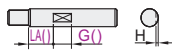
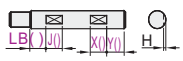
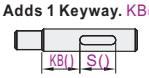
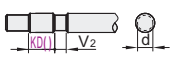
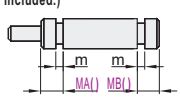
h7

Part Number Code	D_{h7}	0.1 mm Increment L	E	1 mm Inc. P	M
	6	18.0~300.0		5	3
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5
	10	18.0~500.0			4 5 6
	12	20.0~600.0			5 6 8
	15	20.0~700.0		When M10~M16 M+2≤P<D	5 6 8 10
MBJ42	20		1≤E≤P×6		5 6 8 10 12
	25	25.0~800.0		When M20·24 M+2≤P<D	5 6 8 10 12 16
	30				8 10 12 16 20
	35			When M30 M+2≤P<D	8 10 12 16 20 24
	40	35.0~800.0			12 16 20 24 30
	50				16 20 24 30

h9

Part Number Code	D_{h9}	0.1 mm Increment L	E	1 mm Inc. P	M
	6	18.0~300.0		5	3
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5
	10	18.0~500.0			4 5 6
MBJ62 MBJ66	12	20.0~600.0			5 6 8
	15	20.0~700.0	1≤E≤P×6	When M10~M16 M+2≤P<D	5 6 8 10
MBJ82 MBJ86	20				5 6 8 10 12
	25	25.0~800.0		When M20·24 M+2≤P<D	5 6 8 10 12 16
	30				8 10 12 16 20
	35	35.0~800.0			8 10 12 16 20 24

Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC L<400 changes to L±0.05 L≥400 changes to L±0.1
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 1mm Increment G·J·X ≤50. D: 6~17 H: 1; 18~40 H: 2; 50 H: 3
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10 Ordering Code KC50-C8-F40-T10 1mm Increment S·T·C ≤100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product introduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 1mm Increment D: 6, 8, 10, 12 d: 5, 7, 8, 10 V2: 4, 5
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicable retaining rings are included.)**  Ordering Code MA10—MB10 1mm Increment MA(MB)=4~L/2 For retaining ring groove details, please refer to the product introduction.

Please order as shown

Part Number Code	D	L	E	P	M
MBJ02	8	18~400	1≤E≤P×6	When M3~M8 M+2≤P<D	3 4 5
	10	18~500			4 5 6

MBJ02—D8—L150—E20—P5—M3

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
No Surface Treatment

Delivery 6
with Surface Treatment

Optional Processing

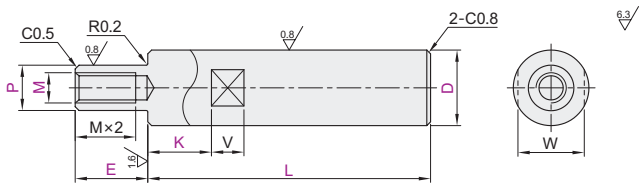
Part Number Code	D	L	E	P	M	Optional Processing Code
MBJ02	8	18~400	1≤E≤P×6	When M3~M8 M+2≤P<D	3 4 5	LC LA( )...
	10	18~500			4 5 6	

MBJ02—D8—L150—E20—P5—M3—LC

Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBJ12	One End Stepped and Tapped	with Wrench Flats	g6	g6	45	S45C	Electroless Nickel Plating
MBJ52			h7	h7			

Processing according to drawings





D·P	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.

The first perspective

g6

Part Number Code	D_{g6}	0.1 mm Increment L	E	1 mm Inc. P	M	Wrench Flats K(1 mm Inc.)	W	V
MBJ12	6	18.0~300.0	1≤E≤P×6	5	3	K=0 or K≥1	5	10
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5		7	
	10	18.0~500.0			4 5 6		8	
	12	20.0~600.0			5 6 8		10	12
	13				5 6 8		12	
	15	20.0~700.0		When M10~M16 M+2≤P<D	5 6 8 10		13	
	16				5 6 8 10		14	
	17				5 6 8 10 12			
	18			When M20·24 M+2≤P<D	5 6 8 10 12		15	
	20	25.0~800.0			5 6 8 10 12		17	
	22				5 6 8 10 12 16		19	
	25				5 6 8 10 12 16		22	
	30			When M30 M+2≤P<D	8 10 12 16 20		27	16
	35				8 10 12 16 20 24		30	
	40	35.0~800.0			12 16 20 24 30		36	20
	50				16 20 24 30		41	

h7

Part Number Code	D_{h7}	0.1 mm Increment L	E	1 mm Inc. P	M	Wrench Flats K(1 mm Inc.)	W	V
MBJ52	6	18.0~300.0	1≤E≤P×6	5	3	K=0 or K≥1	5	10
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5		7	
	10	18.0~500.0			4 5 6		8	
	12	20.0~600.0			5 6 8		10	12
	15	20.0~700.0		When M10~M16 M+2≤P<D	5 6 8 10		13	
	20				5 6 8 10 12		17	
	25	25.0~800.0		When M20·24 M+2≤P<D	5 6 8 10 12 16		22	
	30				8 10 12 16 20		27	16
	35			When M30 M+2≤P<D	8 10 12 16 20 24		30	
	40	35.0~800.0			12 16 20 24 30		36	20
	50				16 20 24 30		41	

Please order as shown

Part Number Code	D	L	E	P	M	K (1 mm Inc.)
MBJ12	8	18~400	1≤E≤P×6	When M3~M8 M+2≤P<D	3 4 5	K=0 or K≥1
	10	18~500			4 5 6	

MBJ12—D8—L150—E20—P5—M3—K10

Optional Processing

Part Number Code	D	L	E	P	M	K (1 mm Inc.)	Optional Processing Code
MBJ12	8	18~400	1≤E≤P×6	When M3~M8 M+2≤P<D	3 4 5	K=0 or K≥1	LC LA( )...
	10	18~500			4 5 6		

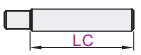
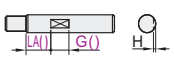
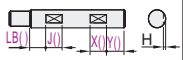
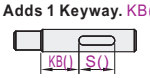
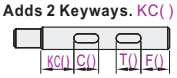
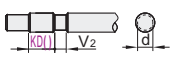
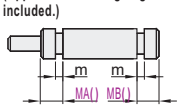
MBJ12—D8—L150—E20—P5—M3—K10—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 6

Optional Processing

Code	Spec.
LC	Changes L Dimension Tolerance  Ordering Code LC L<400 changes to L±0.05 L≥400 changes to L±0.1
LA( ) LB( )	Adds 1 Set Screw Flat. LA( )  Adds 2 Set Screw Flats. LB( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 1 mm Increment G·J·X ≤50. D: 6~17 H: 1; 18~40 H: 2; 50 H: 3
KB( ) KC( )	Adds 1 Keyway. KB( )  Adds 2 Keyways. KC( )  Ordering Code KB50-S10 Ordering Code KC50-C8-F40-T10 1 mm Increment S·T·C≤ 100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product introduction.
KD( )	Adds a Slit Cam Groove  Ordering Code KD10 1 mm Increment D: 6 d: 5 V2: 4; 8 7; 10 8 5; 12 10
MA( ) MB( )	Adds a Retaining Ring Groove. (Applicable retaining rings are included.)  Ordering Code MA10—MB10 1 mm Increment MA(MB)=4~L/2 For retaining ring groove details, please refer to the product introduction.

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Factory Automation Parts
One-Stop Purchasing Platform
Minimize procurement costs.
Ordering online saves more time.
Improve efficiency and save 50% design time !
3D model library | Example | Catalog for selection

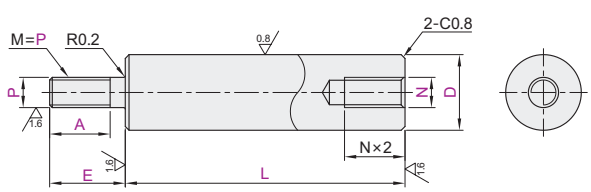
Rotary Shafts

One End Threaded & One End Tapped, Standard
One End Stepped

Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBN02	One End Threaded & One End Tapped	Standard	g6	g6	45	S45C	Electroless Nickel Plating
MBN16					0Cr18Ni9	SUS304	—
MBN41			h7	h7	45	S45C	Electroless Nickel Plating
MBN46					0Cr18Ni9	SUS304	—
MBN66				g6	0Cr18Ni9	SUS304	—
MBN81			h9	h7	45	S45C	Electroless Nickel Plating
MBN82					0Cr18Ni9	SUS304	—

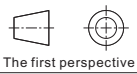
Processing according to drawings


self made



D·P	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

Roundness, straightness, perpendicularity and coaxiality,please refer to the introduction of shaft products.


The first perspective

g6

Part Number Code	D_{g6}	0.1 mm Inc. L	E	1 mm Inc. A	P	N
MBN02 MBN16	6	18.0~300.0	5≤E≤P×8	When P≤6 A≤E-2	3 4 5	3 4
	8	18.0~400.0			3 4 5 6	3 4 5 6
	10	18.0~500.0			4 5 6 8	4 5 6
	12	25.0~600.0			5 6 8 10	5 6 8
	13	20.0~600.0			5 6 8 10	5 6 8
	15	25.0~700.0			5 6 8 10 12	5 6 8 10
	16	20.0~800.0			5 6 8 10 12	5 6 8 10
	17	35.0~600.0		When P=8、10 A≤E-3	5 6 8 10 12	5 6 8 10 12
	18	25.0~800.0			5 6 8 10 12	5 6 8 10 12
	20	35.0~600.0			5 6 8 10 12 16	5 6 8 10 12
	22	25.0~800.0		When P≥12 A≤E-5	5 6 8 10 12 16	5 6 8 10 12 16
	25	45.0~800.0			5 6 8 10 12 16 20	5 6 8 10 12 16
	30	55.0~800.0			8 10 12 16 20 24	8 10 12 16 20
	35	65.0~800.0			8 10 12 16 20 24 30	8 10 12 16 20 24
	40	75.0~800.0			12 16 20 24 30	12 16 20 24 30
	50	95.0~800.0			16 20 24 30	16 20 24 30

h7

Part Number Code	D_{h7}	0.1 mm Inc. L	E	1 mm Inc. A	P	N
MBN41 MBN46	6	18.0~300.0	5≤E≤P×8	When P≤6 A≤E-2	3 4 5	3 4
	8	18.0~400.0			3 4 5 6	3 4 5 6
	10	18.0~500.0			4 5 6 8	4 5 6
	12	25.0~600.0			5 6 8 10	5 6 8
	15	25.0~700.0			5 6 8 10 12	5 6 8 10
	20	35.0~800.0		When P=8、10 A≤E-3	5 6 8 10 12 16	5 6 8 10 12 16
	25	45.0~800.0			5 6 8 10 12 16 20	5 6 8 10 12 16 20
	30	55.0~800.0		When P≥12 A≤E-5	8 10 12 16 20 24	8 10 12 16 20
	35	65.0~800.0			8 10 12 16 20 24 30	12 16 20 24
	40	75.0~800.0			12 16 20 24 30	12 16 20 24 30
	50	95.0~800.0			16 20 24 30	16 20 24 30

h9

Part Number Code	D_{h9}	0.1 mm Inc. L	E	1 mm Inc. A	P	N
MBN66 MBN81 MBN82	6	18.0~300.0	5≤E≤P×8	When P≤6 A≤E-2	3 4 5	3 4
	8	18.0~400.0			3 4 5 6	3 4 5 6
	10	18.0~500.0			4 5 6 8	4 5 6
	12	25.0~600.0			5 6 8 10	5 6 8
	15	25.0~700.0		When P=8、10 A≤E-3	5 6 8 10 12	5 6 8 10
	20	35.0~800.0			5 6 8 10 12 16	5 6 8 10 12 16
	25	45.0~800.0			5 6 8 10 12 16 20	5 6 8 10 12 16
	30	55.0~800.0		When P≥12 A≤E-5	8 10 12 16 20 24	8 10 12 16 20
	35	65.0~800.0			8 10 12 16 20 24 30	12 16 20 24

Please order as shown

Part Number Code	D	L	E	A	P	N
MBN02	6	18~300	5≤E≤P×8	When P≤6 A≤E-2	3 4 5	3 4
	8	18~400			3 4 5 6	3 4 5 6

MBN02—D6—L150—E20—A7—P3—N3

Optional Processing

Part Number Code	D	L	E	A	P	N	Optional Processing Code
MBN02	6	18~300	5≤E≤P×8	When P≤6 A≤E-2	3 4 5	3 4	LC MC( )...
	8	18~400			3 4 5 6	3 4 5 6	

MBN02—D6—L150—E20—A7—P3—N3—LC

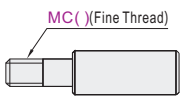
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
No Surface Treatment

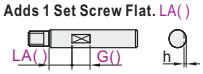
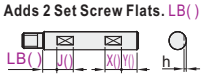
Delivery 6
with Surface Treatment

Optional Processing

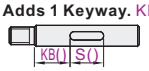
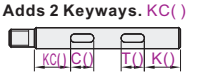
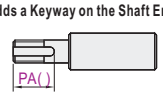
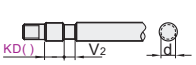
Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC L<400 changes to L±0.05 L≥400 changes to L±0.1
MC( )	**Changes threads to Fine Thread in the Right Table**  Ordering Code MC20

D	MC
6	3 4 5
8	3 4 5 6
10	— 4 5 6 8
12~13	— — 5 6 8 10
15~16	— — 5 6 8 10 12
17~18	— — — 6 8 10 12 15
20~22	— — — 6 8 10 12 15 17
25	— — — — 8 10 12 15 17 20
30	— — — — 8 10 12 15 17 20 25
35	— — — — 10 12 15 17 20 25 30
40	— — — — 12 15 17 20 25 30 35
50	— — — — 15 17 20 25 30 35 40
Pitch	0.35 0.5 0.75 1.0 1.5

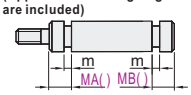
In selection, P must be changed to MC.
In selection, P and MC must be the same size.

Code	Spec.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  Ordering Code LA10-G3 **Adds 2 Set Screw Flats.** LB( )  Ordering Code LB10-J3-Y10-X3 1 mm Increment G·J·X ≤50.

D	h
6~17	1
18~40	2
50	3

Code	Spec.
KB( ) KC( )	**Adds 1 Keyway.** KB( )  Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 1 mm Increment S·T·C ≤100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product introduction. **Adds 2 Keyways.** KC( ) 
PA( )	**Adds a Keyway on the Shaft End P**  Ordering Code PA10 1 mm Increment PA≥50 , PA≥E , P≤5 Not applicable. For keyway details, please refer to the product introduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 1mm Increment

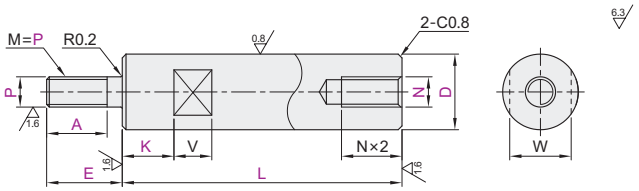
D	d	V2
6	5	4
8	7	
10	8	5
12	10	

Code	Spec.
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicable retaining rings are included)**  Ordering Code MA10—MB10 1mm Increment MA(MB)=4~L/2 For retaining ring groove details, please refer to the product introduction.

Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBN12	One End Threaded & One End Tapped	Wrench Flats	g6	g6	45	S45C	Electroless Nickel Plating
MBN26					0Cr18Ni9	SUS304	—
MBN52			h7	h7	45	S45C	Electroless Nickel Plating
MBN56					0Cr18Ni9	SUS304	—
MBN72			h9	g6	45	S45C	Electroless Nickel Plating
MBN76					0Cr18Ni9	SUS304	—
MBN92				h7	45	S45C	Electroless Nickel Plating
MBN96					0Cr18Ni9	SUS304	—

Processing according to drawings


self made



D·P	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

Roundness, straightness, perpendicularity and coaxiality,please refer to the introduction of shaft products.

g6

Part Number Code	D_{g6}	0.1 mm Inc. L	E	1 mm Inc. A	P	N	K 1 mm Inc.	W	V
	6	18~300			3 4 5	3 4		5	
	8	18~400			3 4 5 6	3 4 5 6		7	10
	10	18~500			4 5 6 8	4 5 6		8	
	12	25~600		When P≤6	5 6 8 10	5 6 8		10	
	13	20~600		A≤E-2	5 6 8 10	5 6 8		11	
	15	25~700			5 6 8 10 12	5 6 8 10		13	
	16	20~800			5 6 8 10 12	5 6 8 10			
MBN12	17	35~600	5≤E≤P×8	When P=8·10	5 6 8 10 12	5 6 8 10 12	K=0	14	12
MBN26	18	25~800		A≤E-3	5 6 8 10 12	5 6 8 10 12	or	15	
	20	35~600			5 6 8 10 12 16	5 6 8 10 12	K≥1	17	
	22	25~800			5 6 8 10 12 16	5 6 8 10 12 16		19	
	25	45~800		When P≥12	5 6 8 10 12 16 20	5 6 8 10 12 16		22	
	30	55~800		A≤E-5	8 10 12 16 20 24	8 10 12 16 20		27	16
	35	65~800			8 10 12 16 20 24 30	8 10 12 16 20 24		30	
	40	75~800			12 16 20 24 30	12 16 20 24 30		36	20
	50	95~800			16 20 24 30	16 20 24 30		41	

h7

Part Number Code	D_{h7}	0.1 mm Inc. L	E	1 mm Inc. A	P	N	K 1 mm Inc.	W	V
	6	18~300			3 4 5	3 4		5	
	8	18~400		When P≤6	4 5 6	3 4 5 6		7	10
	10	18~500		A≤E-2	4 5 6 8	4 5 6		8	
	12	25~600			5 6 8 10	5 6 8		10	
	15	25~700		When P=8·10	5 6 8 10 12	5 6 8 10	K=0	13	12
MBN52	20	35~800	5≤E≤P×8	A≤E-3	5 6 8 10 12 16	5 6 8 10 12 16	or	17	
MBN56	25	45~800			5 6 8 10 12 16 20	5 6 8 10 12 16	K≥1	22	
	30	55~800			8 10 12 16 20 24	8 10 12 16 20		27	16
	35	65~800		When P≥12	8 10 12 16 20 24 30	12 16 20 24		30	
	40	75~800		A≤E-5	12 16 20 24 30	12 16 20 24 30		36	20
	50	95~800			16 20 24 30	16 20 24 30		41	

h9

Part Number Code	D_{h9}	0.1 mm Inc. L	E	1 mm Inc. A	P	N	K 1 mm Inc.	W	V
	6	18~300			3 4 5	3 4		5	
	8	18~400		When P≤6	4 5 6	3 4 5 6		7	10
	10	18~500		A≤E-2	4 5 6 8	4 5 6		8	
	12	25~600			5 6 8 10	5 6 8		10	
	15	25~700		When P=8·10	5 6 8 10 12	5 6 8 10	K=0	13	12
MBN72	20	35~800	5≤E≤P×8	A≤E-3	5 6 8 10 12 16	5 6 8 10 12 16	or	17	
MBN76	25	45~800			5 6 8 10 12 16 20	5 6 8 10 12 16	K≥1	22	
MBN92	30	55~800			8 10 12 16 20 24	8 10 12 16 20		27	16
MBN96	35	65~800		When P≥12	8 10 12 16 20 24 30	12 16 20 24		30	
				A≤E-5					

Please order as shown

Part Number Code	D	L	E	A	P	N	K
MBN12	6	18~300	5≤E≤P×8	When P≤6	3 4 5	3 4	K=0 or K≥1
	8	18~400		A≤E-2	3 4 5 6	3 4 5 6	

MBN12—D6—L150—E20—A7—P3—N3—K5

Optional Processing

Part Number Code	D	L	E	A	P	N	K	Optional Processing code
MBN12	6	18~300	5≤E≤P×8	When P≤6	3 4 5	3 4	K=0 or K≥1	LC MC( )...
	8	18~400		A≤E-2	3 4 5 6	3 4 5 6		

MBN12—D6—L150—E20—A7—P3—N3—K5—LC

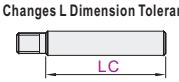
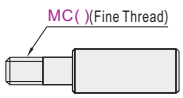
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
No Surface Treatment

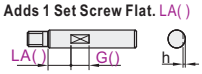
Delivery 6
with Surface Treatment

Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC L<400 changes to $L_{\pm 0.05}$ L≥400 changes to $L_{\pm 0.1}$
MC( )	**Change the Thread to Fine Thread in the Right Table**  Ordering Code MC20

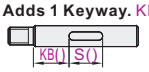
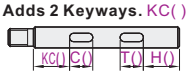
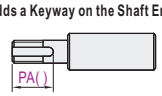
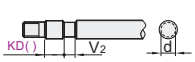
D	MC
6	3 4 5
8	3 4 5 6
10	— 4 5 6 8
12~13	— 5 6 8 10
15~16	— 5 6 8 10 12
17~18	— — 6 8 10 12 15
20~22	— — 6 8 10 12 15 17
25	— — — 8 10 12 15 17 20
30	— — — 8 10 12 15 17 20 25
35	— — — 10 12 15 17 20 25 30
40	— — — 12 15 17 20 25 30 35
50	— — — 15 17 20 25 30 35 40
Pitch	0.35 0.5 0.75 1.0 1.5

In selection, P must be changed to MC.
In selection, P and MC must be the same size.

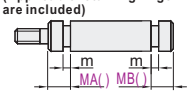
Code	Spec.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 1mm Increment G·J·X≤ 50.

D	h
6~17	1
18~40	2
50	3

Adds 2 Set Screw Flats. LB( ) 

Code	Spec.
KB( ) KC( )	**Adds 1 Keyway.** KB( )  Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 1 mm Increment S·T·C ≤100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product introduction.
	Adds 2 Keyways. KC( ) 
PA( )	**Adds a Keyway on the Shaft End P**  Ordering Code PA10 1 mm Increment PA≥50 , PA≥E , P≤5 Not applicable. For keyway details, please refer to the product introduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 1mm Increment

D	d	V_2
6	5	4
8	7	
10	8	5
12	10	

Code	Spec.
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicable retaining rings are included)**  Ordering Code MA10—MB10 1mm Increment MA(MB)=4~L/2 For retaining ring groove details, please refer to the product introduction.

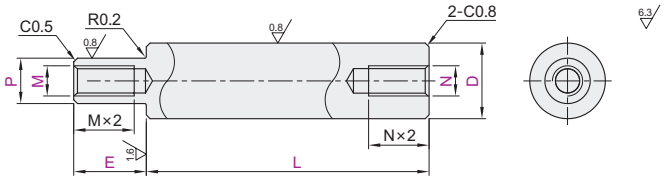
Rotary Shafts — Both Ends Tapped, Standard

One End Stepped

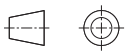
Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBK02	Both Ends Tapped	Standard	g6	g6	45	S45C	Electroless Nickel Plating
MBK16					0Cr18Ni9	SUS304	—
MBK42			h7	h7	45	S45C	Electroless Nickel Plating
MBK46					0Cr18Ni9	SUS304	—
MBK61			h9	g6	45	S45C	Electroless Nickel Plating
MBK66					0Cr18Ni9	SUS304	—
MBK82				h7	45	S45C	Electroless Nickel Plating

Processing according to drawings





D·P	g6	h7	h9
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062



Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.

g6

Part Number Code	D_{g6}	0.1 mm Inc. L	0.1 mm Inc. E	1 mm Inc. P	M	N
MBK02 MBK16	6	18.0~300.0	1≤E≤P×6	5	3	3
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5	3 4 5 6
	10	18.0~500.0			4 5 6	4 5 6
	12	25.0~600.0			5 6 8	5 6 8
	13				5 6 8	5 6 8
	15	25.0~700.0		When M10~M16 M+3≤P<D	5 6 8 10	5 6 8 10
	16	35.0~600.0			5 6 8 10	5 6 8 10
	17				5 6 8 10 12	5 6 8 10 12
	18				5 6 8 10 12	5 6 8 10 12
	20			When M20·24 M+4≤P<D	5 6 8 10 12	5 6 8 10 12
	22	45.0~800.0			5 6 8 10 12 16	5 6 8 10 12 16
	25				5 6 8 10 12 16	5 6 8 10 12 16
	30	55.0~800.0		When M30 M+5≤P<D	8 10 12 16 20	8 10 12 16 20
	35	65.0~800.0			8 10 12 16 20 24	8 10 12 16 20 24
	40	75.0~800.0			12 16 20 24 30	12 16 20 24 30
	50	95.0~800.0			16 20 24 30	16 20 24 30

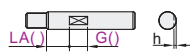
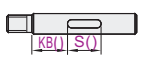
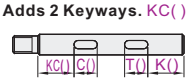
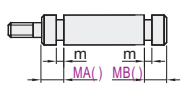
h7

Part Number Code	D_{h7}	0.1 mm Inc. L	0.1 mm Inc. E	1 mm Inc. P	M	N
MBK42 MBK46	6	18.0~300.0	1≤E≤P×6	5	3	3
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5	3 4 5 6
	10	18.0~500.0			4 5 6	4 5 6
	12	25.0~600.0			5 6 8	5 6 8
	15	25.0~700.0		When M10~M16 M+3≤P<D	5 6 8 10	5 6 8 10
	20	35.0~800.0			5 6 8 10 12	5 6 8 10 12 16
	25	45.0~800.0		When M20·24 M+4≤P<D	5 6 8 10 12 16	5 6 8 10 12 16
	30	55.0~800.0			8 10 12 16 20	8 10 12 16 20
	35	65.0~800.0			8 10 12 16 20 24	8 10 12 16 20 24
	40	75.0~800.0		When M30 M+5≤P<D	12 16 20 24 30	12 16 20 24 30
	50	95.0~800.0			16 20 24 30	16 20 24 30

h9

Part Number Code	D_{h9}	0.1 mm Inc. L	0.1 mm Inc. E	1 mm Inc. P	M	N
MBK61 MBK66 MBK82	6	18.0~300.0	2≤E≤P×5		3	3
	8	18.0~400.0		When M3~M8 M+2≤P<D	3 4 5	3 4 5
	10	18.0~500.0			4 5 6	4 5 6
	12	18.0~600.0		When M10~M16 M+3≤P<D	5 6 8	5 6 8
	15	25.0~700.0			5 6 8 10	5 6 8 10
	20	35.0~800.0			5 6 8 10 12	5 6 8 10 12 16
	25	45.0~800.0		When M20·24 M+4≤P<D	5 6 8 10 12 16	5 6 8 10 12 16
	30	55.0~800.0			8 10 12 16 20	8 10 12 16 20
	35	65.0~800.0			8 10 12 16 20 24	8 10 12 16 20 24

Optional Processing

Code	Spec.	
LC	**Changes L Dimension Tolerance** 	Ordering Code LC L<400 changes to $L_{\pm 0.05}$ L≥400 changes to $L_{\pm 0.1}$
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( ) 	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 1mm Increment G·J·X ≤50. D / h: 6~17 / 1; 18~40 / 2; 50 / 3
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( ) 	Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 1mm Increment S·T·C ≤ 100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product in troduction.
KD( )	**Adds a Slit Cam Groove** 	Ordering Code KD10 1mm Increment Only applicable to D=6~12. D / d / V2: 6 / 5 / 4; 8 / 7; 10 / 8 / 5; 12 / 10
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicable retaining rings are included.)** 	Ordering Code MA10—MB10 1 mm Increment MA(MB)=4~L/2 For retaining ring groove details, please refer to the product introduction.

Please order as shown

Part Number Code	D	L	E	P	M	N
MBK02	6	18~300	1≤E≤P×6	5	3	3
	8	18~400		M+2≤P<D	3 4	3 4

MBK02—D6—L150—E20—P5—M3—N3

Optional Processing

Part Number Code	D	L	E	P	M	N	Optional Processing Code
MBK02	6	18~300	1≤E≤P×6	5	3	3	LC LA( )...
	8	18~400		M+2≤P<D	3 4	3 4	

MBK02—D6—L150—E20—P5—M3—N3—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

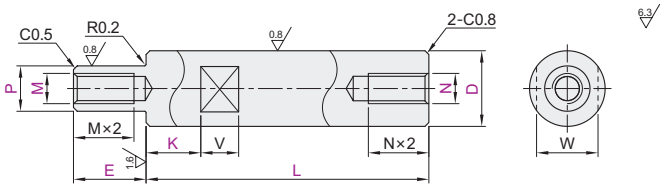
Delivery 4 — No Surface Treatment

Delivery 6 — with Surface Treatment

Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MBK12	Both Ends Tapped	with Wrench Flats	g6	g6	45	S45C	Electroless Nickel Plating
MBK26					0Cr18Ni9	SUS304	—
MBK56			h7	h7	0Cr18Ni9	SUS304	—
MBK92			h9	h7	45	S45C	Electroless Nickel Plating
MBK96					0Cr18Ni9	SUS304	—

Processing according to drawings


self made



D·P	g6	h7	h9
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

! Roundness, straightness, perpendicularity and coaxiality,please refer to the introduction of shaft products.

g6

Part Number Code	D_{g6}	0.1 mm Inc. L	E	1 mm Inc. P	M	N	K 1 mm Inc.	W	V
	6	18~300		5	3	3		5	
	8	18~400			3 4 5	3 4 5 6		7	10
	10	18~500		When M3~M8	4 5 6	4 5 6		8	
	12	25~600		M+2≤P<D	5 6 8	5 6 8		10	
	13				5 6 8	5 6 8		11	
	15	25~700			5 6 8 10	5 6 8 10		13	
	16			When M10~M16	5 6 8 10	5 6 8 10		14	
MBK12 MBK26	17	35~600	1≤E≤P×6	M+3≤P<D	5 6 8 10 12	5 6 8 10 12	K=0 or K≥1		12
	18				5 6 8 10 12	5 6 8 10 12		15	
	20			When M20·24	5 6 8 10 12	5 6 8 10 12		17	
	22	45~800		M+4≤P<D	5 6 8 10 12 16	5 6 8 10 12 16		19	
	25				5 6 8 10 12 16	5 6 8 10 12 16		22	
	30	55~800			8 10 12 16 20	8 10 12 16 20		27	16
	35	65~800		When M30	8 10 12 16 20 24	8 10 12 16 20 24		30	
	40	75~800		M+5≤P<D	12 16 20 24 30	12 16 20 24 30		36	20
	50	95~800			16 20 24 30	16 20 24 30		41	

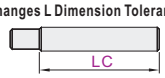
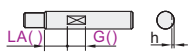
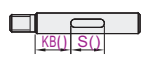
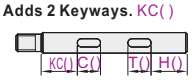
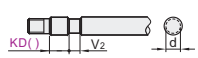
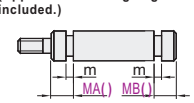
h7

Part Number Code	D_{h7}	0.1 mm Inc. L	E	1 mm Inc. P	M	N	K 1 mm Inc.	W	V
	6	18~300		5	3	3		5	
	8	18~400		When M3~M8	3 4 5	3 4 5 6		7	10
	10	18~500		M+2≤P<D	4 5 6	4 5 6		8	
	12	25~600			5 6 8	5 6 8		10	
	15	25~700		When M10~M16	5 6 8 10	5 6 8 10	K=0	13	
MBK56	20	35~800	1≤E≤P×6	M+3≤P<D	5 6 8 10 12	5 6 8 10 12 16	or K≥1	17	12
	25	45~800		When M20·24	5 6 8 10 12 16	5 6 8 10 12 16		22	
	30	55~800		M+4≤P<D	8 10 12 16 20	8 10 12 16 20		27	16
	35	65~800		When M30	8 10 12 16 20 24	8 10 12 16 20 24		30	
	40	75~800		M+5≤P<D	12 16 20 24 30	12 16 20 24		36	20
	50	95~800			16 20 24 30	16 20 24		41	

h9

Part Number Code	D_{h9}	0.1 mm Inc. L	E	1 mm Inc. P	M	N	K 1 mm Inc.	W	V
	6	18~300			3	3		5	
	8	18~400		When M3~M8	3 4 5	3 4 5		7	10
	10	18~500		M+2≤P<D	4 5 6	4 5 6		8	
	12	25~600			5 6 8	5 6 8	K=0	10	
	15	25~700	2≤E≤P×5	When M10~M16	5 6 8 10	5 6 8 10	or	13	12
MBK92 MBK96	20	35~800		M+3≤P<D	5 6 8 10 12	5 6 8 10 12 16	K≥1	17	
	25	45~800		When M20·24	5 6 8 10 12 16	5 6 8 10 12 16		22	
	30	55~800		M+4≤P<D	8 10 12 16 20	8 10 12 16 20		27	16
	35	65~800			8 10 12 16 20 24	8 10 12 16 20 24		30	

Optional Processing

Code	Spec.	
LC	**Changes L Dimension Tolerance** 	Ordering Code LC ! L<400 changes to $L_{\pm 0.05}$ L≥400 changes to $L_{\pm 0.1}$
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( ) 	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1mm Increment ! G·J·X ≤50. D / h: 6~17 / 1; 18~40 / 2; 50 / 3
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( ) 	Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1mm Increment ! S·T·C ≤ 100. ! If 3 keyways are required, use both KB( ) and KC( ). ! For keyway details, please refer to the product in troduction.
KD( )	**Adds a Slit Cam Groove** 	Ordering Code KD10 ! 1mm Increment ! Only applicable to D=6~12. D / d / V_2: 6 / 5 / 4; 8 / 7; 10 / 8 / 5; 12 / 10
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicable retaining rings are included.)** 	Ordering Code MA10—MB10 ! 1 mm Increment ! MA(MB)=4~L/2 ! For retaining ring groove details, please refer to the product introduction.

Please order as shown

Part Number Code	D	L	E	P	M	N	K
MBK12	6	18~300	1≤E≤P×6	5	3	3	K=0 or K≥1
	8	18~400		M+2≤P<D	3 4	3 4	

MBK12—D6—L150—E20—P5—M3—N3—K0

Optional Processing

Part Number Code	D	L	E	P	M	N	K	Optional Processing Code
MBK12	6	18~300	1≤E≤P×6	5	3	3	K=0 or K≥1	LC LA( ) ...
	8	18~400		M+2≤P<D	3 4	3 4		

MBK12—D6—L150—E20—P5—M3—N3—K0—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
! No Surface Treatment

Delivery 6
! with Surface Treatment

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Improve efficiency and save 50% design time !
3D model library | Example | Catalog for selection

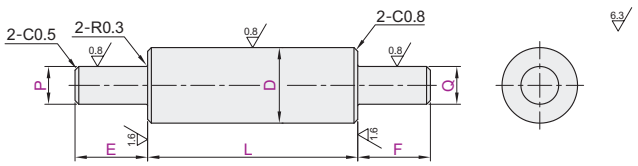
Rotary Shafts — Standard
Both Ends Stepped

Code	Type	Tolerance D	Tolerance P.Q	Material GB	Material Equiv.	Surface Treatment
MCC02	Standard	g6	g6	45	S45C	Electroless Nickel Plating
MCC16				0Cr18Ni9	SUS304	—
MCC22				35CrMo	SCM435 Hardness 28~33 HRC	Electroless Nickel Plating
MCC42		h7	h7	45	S45C	Electroless Nickel Plating
MCC46				0Cr18Ni9	SUS304	—
MCC62		h9	g6	45	S45C	Electroless Nickel Plating
MCC66				0Cr18Ni9	SUS304	—
MCC82			h7	45	S45C	Electroless Nickel Plating
MCC86				0Cr18Ni9	SUS304	—

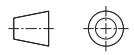
Processing according to drawings



D·P·Q	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062



Roundness, straightness, perpendicularity and coaxiality,please refer to the introduction of shaft products.


The first perspective

g6

Part Number Code	D_{g6}	0.1 mm Increment L	0.1 mm Increment E·F	1 mm Increment P·Q
MCC02 MCC16 MCC22	6	18.0~300.0		2 3 4 5
	8	18.0~400.0		3≤P·Q<D
	10	18.0~500.0		
	12	20.0~600.0		
	13			
	15	20.0~700.0		
	16			4≤P·Q<D
	17		1≤E≤P×6	
	18		1≤F≤Q×6	
	20	20.0~800.0		
	22			
	25			8≤P·Q<D
	30			
	35			
	40	35.0~800.0		15≤P·Q<D
	50			

h7

Part Number Code	D_{h7}	0.1 mm Increment L	0.1 mm Increment E·F	1 mm Increment P·Q
MCC42 MCC46	6	18.0~300.0		2 3 4 5
	8	18.0~400.0		3≤P·Q<D
	10	18.0~500.0		
	12	20.0~600.0		
	15	20.0~700.0	1≤E≤P×6	4≤P·Q<D
	20		1≤F≤Q×6	
	25	25.0~800.0		8≤P·Q<D
	30			
	35			
	40	35.0~800.0		15≤P·Q<D
	50			

h9

Part Number Code	D_{h9}	0.1 mm Increment L	0.1 mm Increment E·F	1 mm Increment P·Q
MCC62 MCC66 MCC82 MCC86	6	18.0~300.0		2 3 4 5
	8	18.0~400.0		3≤P·Q<D
	10	18.0~500.0		
	12	20.0~600.0	1≤E≤P×6	
	15	20.0~700.0	1≤F≤Q×6	4≤P·Q<D
	20			
	25	25.0~800.0		
	30			8≤P·Q<D
	35			
	40	35.0~800.0		15≤P·Q<D
	50			

Please order as shown

Part Number Code	D	L	E·F	P·Q
MCC02	6	18~300	1≤E≤P×6	2 3 4 5
	8	18~400	1≤F≤Q×6	3≤P·Q<D

MCC02—D6—L150—E20—F20—P5—Q5

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Optional Processing

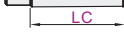
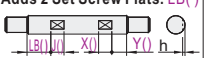
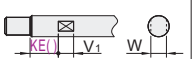
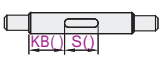
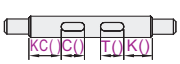
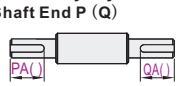
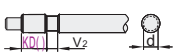
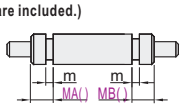
Part Number Code	D	L	E·F	P·Q	Optional Processing Code
MCC02	6	18~300	1≤E≤P×6	2 3 4 5	LC LA( ) ...
	8	18~400	1≤F≤Q×6	3≤P·Q<D	

MCC02—D6—L150—E20—F20—P5—Q5—LC

Delivery 4
No Surface Treatment

Delivery 6
with Surface Treatment

Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC. L<400 changes to $L_{\pm 0.05}$; L≥400 changes to $L_{\pm 0.1}$
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  Ordering Code LA10-G3. Ordering Code LB10-J3-Y10-X3. 1mm Increment. G·J·X ≤50. D: 6~17 h:1; 18~40 h:2; 50 h:3. **Adds 2 Set Screw Flats.** LB( ) 
KE( )	**Adds a Wrench Flat**  Ordering Code KE10. 1 mm Increment. D: 6, 8, 10, 12·13, 15·16, 17·18; W: 5, 7, 8, 10, 13, 14; V1: 10, 12. D: 20·22, 25, 30, 35, 40, 50; W: 17, 22, 27, 30, 36, 41; V1: 12, 16, 20
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10. Ordering Code KC50-C8-K40-T10. 1mm Increment. S·T·C ≤ 100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product in troduction.
PA( ) QA( )	**Adds a Keyway on the Shaft End P (Q)**  Ordering Code PA10. 1 mm Increment. PA·QA≥50, PA·QA≥E, P(Q)≤5 Not applicable. For keyway details, please refer to the product in troduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10. 1mm Increment. Only applicable to D=6~12. D: 6, 8, 10, 12; d: 5, 7, 8, 10; V2: 4, 5
MA( ) MB( )	**Adds a Retaining Ring Groove (Applicable retaining rings are included.)**  Ordering Code MA10—MB10. 1 mm Increment. MA(MB)=4~L/2. For retaining ring groove details, please refer to the product introduction.

Rotary Shafts

Code	Type	Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment	Accessories
MCD02	with Retaining Ring Groove	g6	g6	45	S45C	Electroless Nickel Plating	Retaining Rings 2 pcs.
MCF02	Both Ends Tapped Standard	g6	g6	45	S45C	Electroless Nickel Plating	—
MCF16				0Cr18Ni9	SUS304	—	
MCF42		h7	h7	45	S45C	Electroless Nickel Plating	
MCF46				0Cr18Ni9	SUS304	—	
MCF62		h9	g6	45	S45C	Electroless Nickel Plating	
MCF66				0Cr18Ni9	SUS304	—	
MCF82			h7	45	S45C	Electroless Nickel Plating	
MCF86				0Cr18Ni9	SUS304	—	

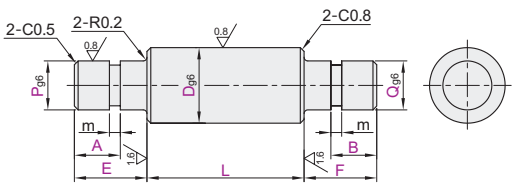
Processing according to drawings



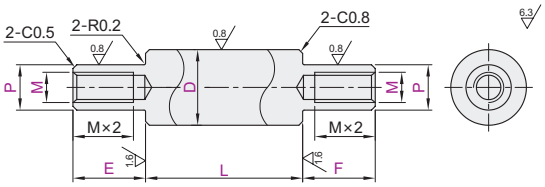
D·P	g6	h7	h9
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

! Roundness, straightness, perpendicularity and coaxiality, please refer to the introduction of shaft products.
! For retaining rings details, please refer to the rotary shafts product introduction.

with Retaining Ring Groove
MCD02



Both Ends Tapped
MCF02~86



The first perspective

with Retaining Ring Groove

Part Number Code	Dg6	L	E·F	A·B	P·Q
MCD02	6 (-0.004 -0.012)	18~300	E≤P×6 F≤Q×6	When P·Q≤6 A·B≥2	2 3 4 5
	8 (-0.005 -0.014)	18~400			3≤P·Q<D
	10 (-0.005 -0.014)	18~500			
	12	20~600		When 6<P·Q≤10 A·B≥3	4≤P·Q<D
	13				
	15 (-0.006 -0.017)				
	16				
	17			When 10<P·Q≤20 A·B≥4	
	18				
	20	25~600			
	22 (-0.007 -0.020)				
	25			When 20<P·Q A·B≥5	8≤P·Q<D
	30				
	35				
	40 (-0.009 -0.025)	35~600			15≤P·Q<D
	50				

Both Ends Tapped, g6

Part Number Code	Dg6	0.1 mm Inc. L	E·F	1 mm Inc. P	M
MCF02 MCF16	6	18~300	1≤E≤P×6 1≤F≤P×6	5	3
	8	18~400		M+2≤P<D	3 4 5
	10	18~500			4 5 6
	12	20~600			5 6 8
	13				5 6 8
	15	20~700			5 6 8 10
	16				5 6 8 10
	17				5 6 8 10 12
	18				5 6 8 10 12
	20	25~800			5 6 8 10 12
	22				5 6 8 10 12 16
	25				5 6 8 10 12 16
	30				8 10 12 16 20
	35				8 10 12 16 20 24
	40	35~800			12 16 20 24
	50				16 20 24

Both Ends Tapped, h7

Part Number Code	Dh7	0.1 mm Inc. L	E·F	1 mm Inc. P	M
MCF42 MCF46	6	18~300	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3
	8	18~400			3 4 5
	10	18~500			4 5 6
	12	20~600			5 6 8
	15	20~700			5 6 8 10
	20				5 6 8 10 12
	25	25~800			6 8 10 12 16
	30				8 10 12 16 20
	35				8 10 12 16 20 24
	40	35~800			12 16 20 24 30
	50				16 20 24 30

Both Ends Tapped, h9

Part Number Code	Dh9	0.1 mm Inc. L	E·F	1 mm Inc. P	M
MCF62 MCF66 MCF82 MCF86	6	18~300	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3
	8	18~400			3 4 5
	10	18~500			4 5 6
	12	20~600			5 6 8
	15	20~700			5 6 8 10
	20				5 6 8 10 12
	25	25~800			5 6 8 10 12 16
	30				8 10 12 16 20
	35	35~800			8 10 12 16 20 24

Please order as shown

with Retaining Ring Groove

Part Number Code	D	L	E·F	A·B	P·Q
MCD02	6	18~300	E≤P×6 F≤Q×6	When P·Q≤6 A·B≥2	2 3 4 5
	8	18~400			3≤P·Q<D

MCD02—D6—L150—E15—F15—A5—B5—P5—Q5

Both Ends Tapped, g6

Part Number Code	D	L	E·F	P	M
MCF02	8	18~400	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3 4 5
	10	18~500			4 5 6

MCF02—D8—L150—E10—F10—P7—M4

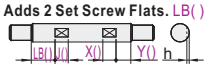
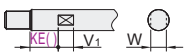
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4
! No Surface Treatment

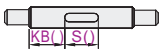
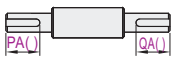
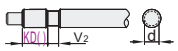
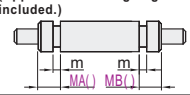
Delivery 6
! with Surface Treatment

Optional Processing

Code	Spec.	
LC	**Changes L Dimension Tolerance** 	Ordering Code LC ! L<400 changes to L±0.05 L≥400 changes to L±0.1 ! Only applicable with Retaining Ring Groove.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( ) 	Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Increment ! G·J·X ≤ 50.
KE( )	**Adds a Wrench Flat** 	Ordering Code KE10 ! 1 mm Increment ! Only applicable with Retaining Ring Groove.

D	h
6~17	1
18~40	2
50	3

D	W	V1
6	5	10
8	7	
10	8	
12·13	10	12
15·16	13	
17·18	14	
20·22	17	12
25	22	
30	27	16
35	30	
40	36	20
50	41	

Code	Spec.	
KB( ) KC( )	**Adds 1 Keyway.** KB()  **Adds 2 Keyways.** KC( ) 	Ordering Code KB50-S10 Ordering Code KC50-C8-K40-T10 ! 1 mm Increment ! S·T·C ≤ 100. ! If 3 keyways are required, use both KB() and KC(). ! For keyway details, please refer to the product in troduction.
PA( ) QA( )	**Adds a Keyway on the Shaft End P (Q)** 	Ordering Code PA10 ! 1 mm Increment ! PA·QA≥50 , PA·QA≥E , P(Q)≤5 Not applicable. ! For keyway details, please refer to the product in troduction. ! Only applicable with Retaining Ring Groove.
KD( )	**Adds a Slit Cam Groove** 	Ordering Code KD10 ! 1 mm Increment ! Applicable to the right table D specifications.
MA( ) MB( )	**Adds a Retaining Ring Groove (Applicable retaining rings are included.)** 	Ordering Code MA10—MB10 ! 1 mm Increment ! MA(MB)=4~L/2 ! For retaining ring groove details, please refer to the product introduction.

D	d	V2
6	5	4
8	7	
10	8	5
12	10	

Please order as shown

Optional Processing(with Retaining Ring Groove)

Part Number Code	D	L	E·F	A·B	P·Q	Optional Processing Code
MCD02	6	18~300	E≤P×6	When P·Q≤6	2 3 4 5	LC LA( ) ...
	8	18~400	F≤Q×6	A·B≥2	3≤P·Q<D	

MCD02—D6—L150—E15—F15—A5—B5—P5—Q5—LC

Optional Processing(Both Ends Tapped, g6)

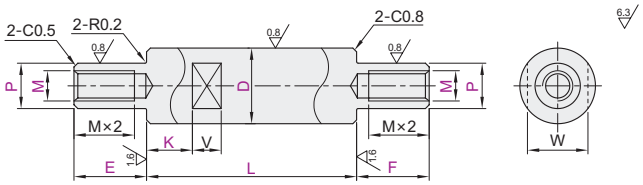
Part Number Code	D	L	E·F	P	M	Optional Processing Code
MCF02	8	18~400	1≤E≤R×6	M+2≤P<D	3 4 5	LA( ) KE( ) ...
	10	18~500	1≤F≤P×6		4 5 6	

MCF02—D8—L150—E10—F10—P7—M4—KE10

Code	Type		Tolerance D	Tolerance P	Material GB	Material Equiv.	Surface Treatment
MCF12	Both Ends Tapped	with Wrench Flats	g6	g6	45	S45C	Electroless Nickel Plating
MCF26					0Cr18Ni9	SUS304	—
MCF52			h7	h7	45	S45C	Electroless Nickel Plating
MCF56					0Cr18Ni9	SUS304	—
MCF72			h9	g6	45	S45C	Electroless Nickel Plating
MCF76					0Cr18Ni9	SUS304	—
MCF92				h7	45	S45C	Electroless Nickel Plating
MCF96					0Cr18Ni9	SUS304	—

Processing according to drawings


self made



D·P	g6	h7	h9
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

! Roundness, straightness, perpendicularity and coaxiality,please refer to the introduction of shaft products.

The first perspective

g6

Part Number Code	D_{g6}	0.1 mm Inc. L	0.1 mm Inc. E·F	1 mm Inc. P	M	Wrench Flats K(1 mm Inc.)	W	V
MCF12 MCF26	6	18.0~300.0	1≤E≤P×6 1≤F≤P×6	5	3	K=0 or K≥1	5	10
	8	18.0~400.0			3 4 5		7	
	10	18.0~500.0			4 5 6		8	
	12	20.0~600.0		M+2≤P<D	5 6 8		10	12
	13	20.0~700.0			5 6 8		11	
	15				5 6 8 10		13	
	16				5 6 8 10		14	
	17				5 6 8 10 12			
	18				5 6 8 10 12		15	
	20	25.0~800.0			5 6 8 10 12		17	
	22				5 6 8 10 12 16		19	
	25				5 6 8 10 12 16		22	
	30				8 10 12 16 20		27	16
	35				8 10 12 16 20 24		30	
	40	35.0~800.0			12 16 20 24		36	20
	50				16 20 24		41	

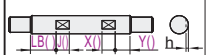
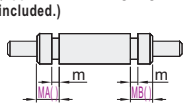
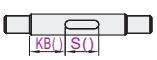
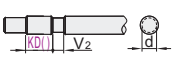
h7

Part Number Code	D_{h7}	0.1 mm Inc. L	0.1 mm Inc. E·F	1 mm Inc. P	M	Wrench Flats K(1 mm Inc.)	W	V
MCF52 MCF56	6	18.0~300.0	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3	K=0 or K≥1	5	10
	8	18.0~400.0			3 4 5		7	
	10	18.0~500.0			4 5 6		8	
	12	20.0~600.0			5 6 8		10	12
	15	20.0~700.0			5 6 8 10		13	
	20				5 6 8 10 12		17	
	25	25.0~800.0			6 8 10 12 16		22	
	30				8 10 12 16 20		27	16
	35				8 10 12 16 20 24		30	
	40	35.0~800.0			12 16 20 24 30		36	20
	50				16 20 24 30		41	

h9

Part Number Code	D_{h9}	0.1 mm Inc. L	0.1 mm Inc. E·F	1 mm Inc. P	M	Wrench Flats K(1 mm Inc.)	W	V
MCF72 MCF76 MCF92 MCF96	6	18.0~300.0	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3	K=0 or K≥1	5	10
	8	18.0~400.0			3 4 5		7	
	10	18.0~500.0			4 5 6		8	
	12	20.0~600.0			5 6 8		10	12
	15	20.0~700.0			5 6 8 10		13	
	20				5 6 8 10 12		17	
	25	25.0~800.0			5 6 8 10 12 16		22	
	30				8 10 12 16 20		27	16
	35	35.0~800.0			8 10 12 16 20 24		30	

Optional Processing

Code	Spec.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( )  Ordering Code LA10-G3 Ordering Code LB10-J3-Y10-X3 ! 1 mm Increment ! G·J·X ≤ 50. D: 6~17 h: 1; 18~40 h: 2; 50 h: 3
MA( ) MB( )	**Adds a Retaining Ring Groove (Applicable retaining rings are included.)**  Ordering Code MA10-MB10 ! 1 mm Increment ! MA(MB)=4~L/2 ! For retaining ring groove details, please refer to the product introduction.
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10 Ordering Code KC50-C8-H40-T10 ! 1 mm Increment ! S·T·C ≤ 100. ! If 3 keyways are required, use both KB( ) and KC( ). ! For keyway details, please refer to the product in troduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10 ! 1 mm Increment ! Only applicable to D=6~12. D: 6, 8, 10, 12; d: 5, 7, 8, 10; V_2: 4, 4, 5, 5

Please order as shown

Part Number Code	D	L	E·F	P	M	K
MCF12	8	18~400	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3 4 5	K=0 or K≥1
	10	18~500			4 5 6	

MCF12—D8—L150—E10—F10—P7—M4—K10

Optional Processing

Part Number Code	D	L	E·F	P	M	K	Optional Processing Code
MCF12	8	18~400	1≤E≤P×6 1≤F≤P×6	M+2≤P<D	3 4 5	K=0 or K≥1	MA) MB)...
	10	18~500			4 5 6		

MCF12—D8—L150—E10—F10—P7—M4—K10—MA10-MB10

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4 ! No Surface Treatment

Delivery 6 ! with Surface Treatment

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Rotary Shafts

Both Ends Threaded, Standard

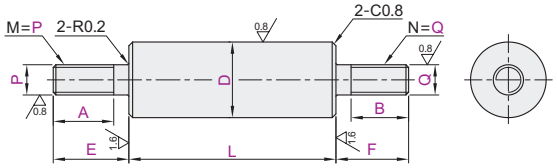
Both Ends Stepped

Code	Type		Tolerance D	Tolerance P·Q	Material GB	Material Equiv.	Surface Treatment
MCK02	Both Ends Threaded	Standard	g6	g6	45	S45C	Electroless Nickel Plating
MCK16					0Cr18Ni9	SUS304	—
MCK42			h7	h7	45	S45C	Electroless Nickel Plating
MCK46					0Cr18Ni9	SUS304	—
MCK61			h9	g6	45	S45C	Electroless Nickel Plating
MCK66					0Cr18Ni9	SUS304	—
MCK82				h7	45	S45C	Electroless Nickel Plating
MCK86					0Cr18Ni9	SUS304	—

Processing according to drawings



self made



D·P·Q	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.

g6

Part Number Code	Dg6	0.1 mm Inc. L	0.1 mm Inc. E·F	1 mm Inc. A	1 mm Inc. B	P·Q
MCK02 MCK16	6	18.0~300.0	6≤F≤Q×7 6≤E≤P×6	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5
	8	18.0~400.0				3 4 5 6
	10	18.0~500.0				4 5 6 8
	12	20.0~600.0				5 6 8 10
	13					5 6 8 10
	15	20.0~700.0				5 6 8 10 12
	16					5 6 8 10 12
	17			When P=8、10 A≤E-3	When Q=8、10 B≤F-3	5 6 8 10 12
	18					5 6 8 10 12
	20	25.0~800.0				6 8 10 12 16
	22					6 8 10 12 16
	25			When P≥12 A≤E-5	When Q≥12 B≤F-5	8 10 12 16 20
	30					8 10 12 16 20 24
	35					10 12 16 20 24 30
	40	35.0~800.0				12 16 20 24 30
	50					16 20 24 30

h7

Part Number Code	Dh7	0.1 mm Inc. L	0.1 mm Inc. E·F	1 mm Inc. A	1 mm Inc. B	P·Q
MCK42 MCK46	6	18.0~300.0	6≤E≤P×6 6≤F≤Q×7	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5
	8	18.0~400.0				3 4 5 6
	10	18.0~500.0				4 5 6 8
	12	20.0~600.0				5 6 8 10
	15	20.0~700.0		When P=8、10 A≤E-3	When Q=8、10 B≤F-3	5 6 8 10 12
	20					6 8 10 12 16
	25	25.0~800.0				8 10 12 16 20
	30					8 10 12 16 20 24
	35			When P≥12 A≤E-5	When Q≥12 B≤F-5	10 12 16 20 24 30
	40	35.0~800.0				12 16 20 24 30
	50					16 20 24 30

h9

Part Number Code	Dh9	0.1 mm Inc. L	0.1 mm Inc. E·F	1 mm Inc. A	1 mm Inc. B	P·Q
MCK61 MCK66 MCK82 MCK86	6	18.0~300.0	6≤E≤P×6 6≤F≤Q×7	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5
	8	18.0~400.0				3 4 5 6
	10	18.0~500.0				4 5 6 8
	12	20.0~600.0				5 6 8 10
	15	20.0~700.0		When P=8、10 A≤E-3	When Q=8、10 B≤F-3	5 6 8 10 12
	20					6 8 10 12 16
	25	25.0~800.0				8 10 12 16 20
	30					8 10 12 16 20 24
	35			When P≥12 A≤E-5	When Q≥12 B≤F-5	10 12 16 20 24 30
	40	35.0~800.0				12 16 20 24 30
	50					16 20 24 30

Please order as shown



Part Number Code	D	L	E·F	A	B	P·Q
MCK02	6	18~300	6≤E≤P×6 6≤F≤Q×7	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5
	8	18~400				3 4 5 6
	10	18~500				4 5 6 8

MCK02—D6—L30—E20—F20—A5—B15—P5—Q5

Optional Processing

Part Number Code	D	L	E·F	A	B	P·Q	Optional Processing Code
MCK02	6	18~300	6≤E≤P×6 6≤F≤Q×7	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5	LC MC NC...
	8	18~400				3 4 5 6	
	10	18~500				4 5 6 8	

MCK02—D6—L30—E20—F20—A5—B15—P5—Q5—LC

Discount price

Per	1~4	5~
Price	100%	Additional quotation

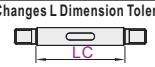
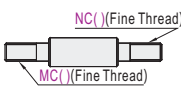
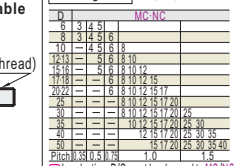
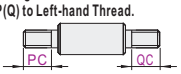
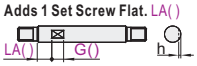
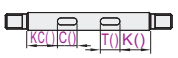
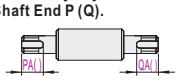
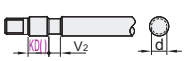
Delivery 4

No Surface Treatment

Delivery 6

with Surface Treatment

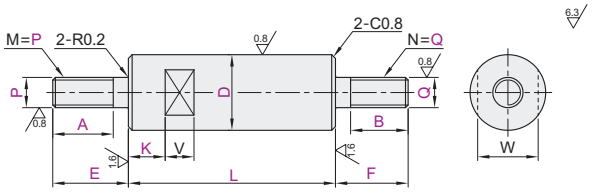
Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC. L<400 changes to $L_{\pm 0.05}$; L≥400 changes to $L_{\pm 0.1}$
MC( ) NC( )	**Change the Thread to Fine Thread in the Right Table**  Ordering Code NC10  In selection, P/Q must be changed to MC/NC. In selection, P/Q and MC/NC must be the same size.
PC QC	**Changes the Threads on Shaft End P(Q) to Left-hand Thread.**  Ordering Code PC(QC). Cannot select MC (NC) at the same time.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Flats.** LB( )  Ordering Code LA10-G3. Ordering Code LB10-J3-Y10-X3. 1 mm Increment. G·J·X≤50. D: 6~17 h: 1; 18~40 h: 2; 50 h: 3
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10. Ordering Code KC50-C8-K40-T10. 1 mm Increment. S·T·C ≤ 100. If 3 keyways are required, use both KB() and KC(). For keyway details, please refer to the product in troduction.
PA( ) QA( )	**Adds a Keyway on the Shaft End P (Q).**  Ordering Code PA10(QA10). 1 mm Increment. PA·QA≥50, PA·QA≥E·F, P·Q≤5 Not applicable. For keyway details, please refer to the product in troduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10. 1 mm Increment. Only applicable to D=6~12. D: 6 d: 5 V2: 4; 8 7; 10 8; 12 10 5
MA( ) MB( )	**Adds a Retaining Ring Groove (Applicable retaining rings are included.)**  Ordering Code MA10-MB10. 1 mm Increment. MA(MB)=4~L/2. For retaining ring groove details, please refer to the product introduction.

Code	Type		Tolerance D	Tolerance P·Q	Material GB	Material Equiv.	Surface Treatment
MCK12	Both Ends Threaded	with Wrench Flats	g6	g6	45	S45C	Electroless Nickel Plating
MCK26					0Cr18Ni9	SUS304	—
MCK52			h7	h7	0Cr18Ni9	SUS304	—
MCK72			h9	g6	0Cr18Ni9	SUS304	—
MCK92				h7	45	S45C	Electroless Nickel Plating
MCK96					0Cr18Ni9	SUS304	—

Processing according to drawings





D·P·Q	g6	h7	h9
3	-0.002 -0.008	0 -0.010	0 -0.025
3.1~6	-0.004 -0.012	0 -0.012	0 -0.030
6.1~10	-0.005 -0.014	0 -0.015	0 -0.036
10.1~18	-0.006 -0.017	0 -0.018	0 -0.043
18.1~30	-0.007 -0.020	0 -0.021	0 -0.052
30.1~50	-0.009 -0.025	0 -0.025	0 -0.062

The first perspective

Circularity, straightness, perpendicularity and concentricity, please refer to the introduction of shaft products.

g6

K 1 mm Inc.

Part Number Code	Dg6	0.1 mm Inc. L	E·F	1 mm Inc. A	B	P·Q	Wrench Flats K	W	V
	6	18~300				3 4 5		5	
	8	18~400				3 4 5 6		7	10
	10	18~500				4 5 6 8		8	
	12	20~600				5 6 8 10		10	
	13			When P≤6 A≤E-2	When Q≤6 B≤F-2	5 6 8 10		11	
	15	20~700				5 6 8 10 12		13	
	16					5 6 8 10 12		14	12
MCK12 MCK26	17		6≤E≤P×6 6≤F≤Q×7	When P=8、10 A≤E-3	When Q=8、10 B≤F-3	5 6 8 10 12	K=0 or K≥1	15	
	18					5 6 8 10 12		17	
	20	25~800				6 8 10 12 16		19	
	22			When P≥12 A≤E-5	When Q≥12 B≤F-5	6 8 10 12 16		22	
	25					8 10 12 16 20		27	16
	30					8 10 12 16 20 24		30	
	35					10 12 16 20 24 30		36	20
	40	35~800				12 16 20 24 30		41	
	50					16 20 24 30			

h7

K 1 mm Inc.

Part Number Code	Dh7	0.1 mm Inc. L	E·F	1 mm Inc. A	B	P·Q	Wrench Flats K	W	V
	6	18~300				3 4 5		5	
	8	18~400		When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5 6		7	10
	10	18~500				4 5 6 8		8	
	12	20~600				5 6 8 10		10	
	15	20~700				5 6 8 10 12	K=0 or K≥1	13	12
MCK52	20		6≤E≤P×6 6≤F≤Q×7	When P=8、10 A≤E-3	When Q=8、10 B≤F-3	6 8 10 12 16		17	
	25	25~800				8 10 12 16 20		22	
	30					8 10 12 16 20 24		27	16
	35			When P≥12 A≤E-5	When Q≥12 B≤F-5	10 12 16 20 24 30		30	
	40	35~800				12 16 20 24 30		36	20
	50					16 20 24 30		41	

h9

K 1 mm Inc.

Part Number Code	Dh9	0.1 mm Inc. L	E·F	1 mm Inc. A	B	P·Q	Wrench Flats K	W	V
	6	18~300		When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5		5	
	8	18~400				3 4 5 6		7	10
	10	18~500				4 5 6 8		8	
MCK72	12	20~600	6≤E≤P×6 6≤F≤Q×7	When P=8、10 A≤E-3	When Q=8、10 B≤F-3	5 6 8 10	K=0 or K≥1	10	
MCK92	15	20~700				5 6 8 10 12		13	12
MCK96	20					6 8 10 12 16		17	
	25	25~800		When P≥12 A≤E-5	When Q≥12 B≤F-5	8 10 12 16 20		22	
	30					8 10 12 16 20 24		27	16
	35	35~800				10 12 16 20 24 30		30	

Please order as shown

Part Number Code	D	L	E·F	A	B	P·Q	K
MCK12	6	18~300	6≤E≤P×6 6≤F≤Q×7	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5	K=0 or K≥1
	8	18~400				3 4 5 6	
	10	18~500				4 5 6 8	

MCK12—D6—L30—E20—F20—A5—B15—P5—Q5—K0

Optional Processing

Part Number Code	D	L	E·F	A	B	P·Q	K	Optional Processing Code
MCK12	6	18~300	6≤E≤P×6 6≤F≤Q×7	When P≤6 A≤E-2	When Q≤6 B≤F-2	3 4 5	K=0 or K≥1	LC MC NC...
	8	18~400				3 4 5 6		
	10	18~500				4 5 6 8		

MCK12—D6—L30—E20—F20—A5—B15—P5—Q5—K0—LC

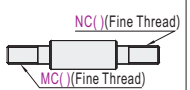
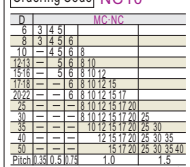
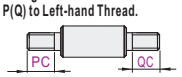
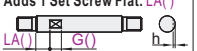
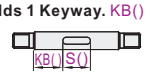
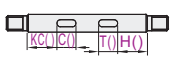
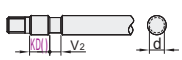
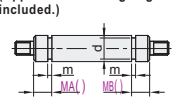
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 4 — No Surface Treatment

Delivery 6 — with Surface Treatment

Optional Processing

Code	Spec.
LC	**Changes L Dimension Tolerance**  Ordering Code LC. L<400 changes to L±0.05, L≥400 changes to L±0.1
MC( ) NC( )	**Change the Thread to Fine Thread in the Right Table**  Ordering Code NC10  In selection, P/Q must be changed to MC/NC. In selection, P/Q and MC/NC must be the same size.
PC QC	**Changes the Threads on Shaft End P(Q) to Left-hand Thread.**  Ordering Code PC(QC). Cannot select MC (NC) at the same time.
LA( ) LB( )	**Adds 1 Set Screw Flat.** LA( )  **Adds 2 Set Screw Slats.** LB( )  Ordering Code LA10-G3. Ordering Code LB10-J3-Y10-X3. 1 mm Inc. G·J·X ≤ 50
KB( ) KC( )	**Adds 1 Keyway.** KB( )  **Adds 2 Keyways.** KC( )  Ordering Code KB50-S10. Ordering Code KC50-C8-H40-T10. 1 mm Inc. S·T·C ≤ 100. If 3 keyways are required, use both KB( ) and KC( ). For keyway details, please refer to the product in troduction
PA( ) QA( )	**Adds a Keyway on the Shaft End P (Q).**  Ordering Code PA10(QA10). 1 mm Inc. PA·QA≥50 , PA·QA≥E·F, P·Q≤5 Not applicable. For keyway details, please refer to the product in troduction.
KD( )	**Adds a Slit Cam Groove**  Ordering Code KD10. 1 mm Inc. Only applicable to D=6~12.
MA( ) MB( )	**Adds a Retaining Ring Groove. (Applicable retaining rings are included.)**  Ordering Code MA10-MB10. 1 mm Inc. MA(MB)=4~L/2. For retaining ring groove details, please refer to the product introduction.

D	d	V2
6	5	4
8	7	
10	8	5
12	10	