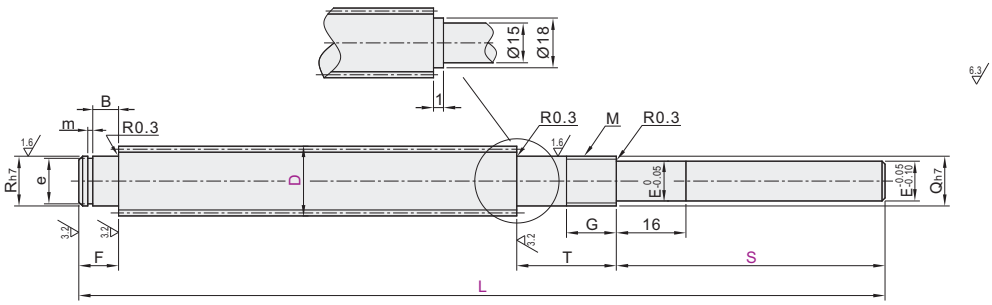
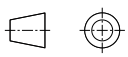
Code	Type	Thread Turn Direction	Fit Form	Material		Surface Treatment
				GB	Equiv.	
LHC07	For Support Unit	Right-Hand Thread	Normal Type	45	S45C	Black Oxide

For D=20 . 22 . 25

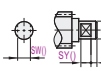
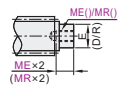
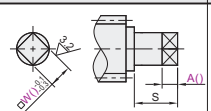
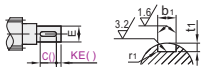




The first perspective

Part Number		0.5mm Increment		F	R	e	e Tolerance	m	m Tolerance	B	T	Q	G	M×Pitch	E	Pitch P
Code	D	L	S													
Right-Hand Thread LHC07	12	70~1000	16~100	10	8	5	+0.075 0	0.7	+0.14 0	7	26	8	12	M8×1.0	6	2
	14				10	9.6	0 -0.09					10		M10×1.0	8	3
	16	80~1200		12	12	11.5	0 -0.11	1.15		8	29	12	13	M12×1.0	10	
	18	100~1200														4
	20															
	22				15	14.3				9	34	15	15	M15×1.0	12	5
	25															

Optional Processing

Alterations	No Retaining Ring Groove on Support Side Shaft End	No Machining on Support Side	Flat Machining	2 Flats Machining	Coarse Tapping	Square Chamfering	Keyway
							
Code	NR( )(R Part)	RC( )(R Part)	FE( )(E Part)	SE( )(E Part)	ME()(E Part) MR()(R Part and Left End)	ZE( )(E Part)	KE()(E Part)
Spec.	Ordering Code NR	Ordering Code RC Possible to combine with MR.	Ordering Code FE5-FW10-FY1 0.5 mm Inc.	Ordering Code SE5-SW10-SY8 0.5 mm Inc.	Ordering Code ME6	Ordering Code ZE6-W10-A7 0.5 mm Inc. A=5~20	Ordering Code KE8-C10 0.5 mm Inc. When KE=0, keyway R will be eliminated on the shaft end side.

E·R·D	ME·MR Selection
6	3
8	3·4
10	3·4·5
12	3·4·5·6
14·15	3·4·5·6·8
16·18	3·4·5·6·8·10
20~25	3·4·5·6·8·10·12

ZE=E	W Selection
6	5
8	6
10	8
12	9·10

E	Keyway Dimension				
	b1		t1		r1
	Ref. Dim.	Tol. (N9)	Ref. Dim.	Tol.	
6	2	-0.004 -0.029	1.2	+0.1 0	0.08 ~ 0.16
8	3		1.8		
10					
12	4	0 -0.030	2.5		

Please order as shown

Part Number		L	S
Code	D		
LHC07	12	70~1000	16~100
	14		
	16	80~1200	

LHC07—D16—L150—S45

Optional Processing

Part Number		L	S	Optional Processing Code
Code	D			
LHC07	12	70~1000	16~100	MR RC FE SE ME MR ZE KE
	14			
	16	80~1200		

LHC07—D16—L150—S45 —RC

Discount price

Per	1~3	4~
Price	100%	Additional quotation

Delivery 10

Code	Type	Material		Surface Treatment	Applicable Accessories
		GB	Equiv.		
LHF01	Fixed Side	45	S45C	Black Oxide	LHF05/06/07
LHF02	Support Side				—

Support Unit Mounting Procedure

- Insert the lead screw shaft into the fixed side support unit.
- After slipping a collar on, thread the included bearing nut on and temporarily tighten at 1/3 of the specified tightening torque. Mount the support side unit on the support end of the shaft and mount.
- While rotating the screw shaft, gradually tighten the bearing nut to obtain smooth motion from end to end.
- When smooth motion is obtained, tighten to full tightening torque to finish.

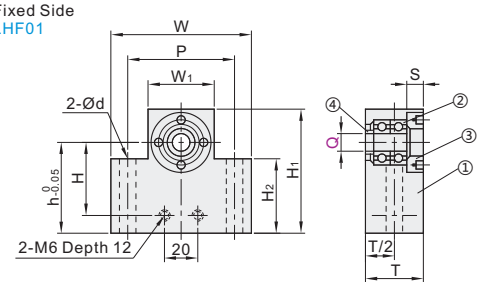
Fixed Side

Number	Part Name	Quantity
①	Fixed Side Support Unit	1
②	Deep Groove Ball Bearings (Assembled)	2
③	Shaft Collars (Assembled)	1
④	Collar(Attachment)	1
	Bearing Nut (Attachment see P1481)	1
	Set screw with screw kit (Attachment)	2

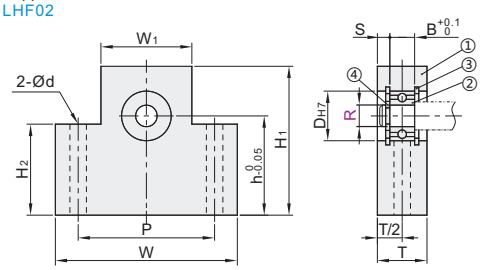
Support Side

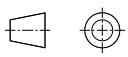
Number	Part Name	Quantity
①	Support Side Support Unit	1
②	Deep Groove Ball Bearings (Assembled)	
③	Retaining Ring for Hole(Assembled)	2
④	Retaining Ring for Shaft(Attachment)	1

Fixed Side
LHF01



Support Side
LHF02





The first perspective

Fixed Side

Part Number Code	Q	W	H1	W1	P	h	H2	H	T	d	S	Bearing Nut
LHF01	8	51	47	25	38	30	35	20	22	6.5	5	LEB81-M8
	10	69	52	36	52	35	34	25	24	8.5	5	LEB81-M10
	12		57			40	39	30				LEB81-M12
	15	79	61	41	60				27	11.5	6	LEB81-M15

Bearing Lock Nuts see P1481

Support Side

Part Number Code	R	W	H1	W1	P	h	H2	D	T	d	B	S	Bearing Type	Retaining Ring for Bore	Retaining Ring for Shaft
LHF02	8	51	47	25	38	30	35	22	20	6.5	7	6.5	608ZZ	TBP21-22	TBP11-5
	10	69	52	36	52	35	34	26		8.5	8	6	6000ZZ	TBP21-26	TBP01-10
	12		57			40	39	28					6001ZZ	TBP21-28	TBP01-12
	15	79	61	41	60			32		11.5	9	5.5	6002ZZ	TBP21-32	TBP01-15

Please order as shown

Fixed Side

Part Number Code	Q	W
LHF01	8	51
	10	69

LHF01—Q10

Support Side

Part Number Code	R	W
LHF02	8	51
	10	69

LHF02—R10

Discount price

Per	1~3	4~
Price	100%	Additional quotation

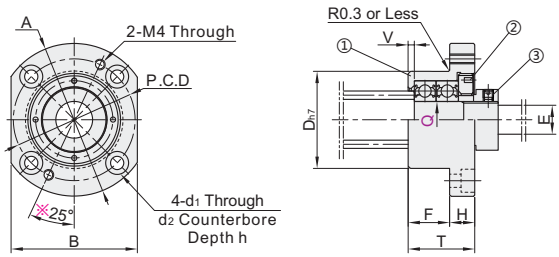
Delivery 8

M	Nut Tightening Torque(N·CM)
8	480
10	920
12	1360
15	2340

Code	Type	
LHF03	Fixed Side	Support Unit Main Body

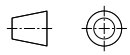
Number	Part Name	Quantity	Material	Surface Treatment
①	Support Unit Main Body	1	S45C	Black Oxide
②	Collar		S50C	
③	Bearing Nut (with a Thread Protector)			

! Uses two preload-adjusted Bearings.



※Q8 is 20°.

! Do not use without inserting the screw shaft (empty tightening). It may deform, causing it unusable.
! A collar for the clamp lever is not included in Q8. The clamp lever mounting dimensions will be the same as the Large Type.
! For Support Side Support Unit (LHF04) details, (see next page).


The first perspective

Part Number Code	Q	T	H	F	D	A	P.C.D	B	d_1	d_2	h	V	E	Bearing Nuts	Clamp Lever	Bearing Type	Allowable Axial Load (N)
LHF03	8	22	8	16	28	45	35	35	3.4	6.5	4	2.3	6	LEB81-M8	HAF73-M4-L32-J	608ZZ	1300
	10	24			34	52	42	42	4.5	8	4.5		8	LEB81-M10		6000ZZ	2300
	12				36	54	44	44					10	LEB81-M12		6001ZZ	2600
	15	27	10	17	40	63	50	52	5.5	9.5	5.5		12	LEB81-M15		6002ZZ	2900

Please order as shown

Part Number Code	Q	T
LHF03	10	24
	12	

LHF03—Q10

Discount price

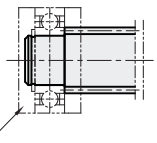
Per	1~3	4~
Price	100%	Additional quotation

Delivery
10

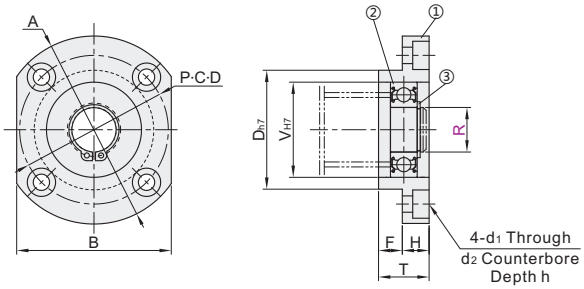
Code	Type	Material	Surface Treatment
LHF04	Support Side	S45C	Black Oxide

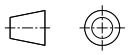
Number	Part Name	Quantity
①	Housing	1
②	Radial Bearing	1
③	Retaining Ring for Shaft (Included)	1

How to use Retaining Ring for Shaft



③Retaining Ring for Shaft (Accessary) should be used for fixing the shaft part. Use Lead Screws for Support Units in combination with this ring, or select a product with the retaining shaft groove added on the shaft part.





The first perspective

Part Number Code	R	T	H	F	D	A	P·C·D	B	V	d_1	d_2	h	Bearing Type	Retaining Ring for Shaft
LHF04	8	13	7	6	28	45	35	35	22	3.4	6.5	4	608ZZ	TBP11-5
	10	14		7	34	52	42	42	26	4.5	8	4.5	6000ZZ	TBP01-10
	12	15	8		36	54	44	44	28				6001ZZ	TBP01-12
	15	17	9	8	40	63	50	52	32	5.5	9.5	5.5	6002ZZ	TBP01-15

Nut Tightening Torque

M	Nut Tightening Torque (N • cm)	Collar size I.D.	Collar size O.D.	Collar size Thickness	Part Number
8	490	8	11.5		LEB81-8
10	930	10	14	5	LEB81-10
12	1370	12	15		LEB81-12
15	2350	15	20	6	LEB81-15

Please order as shown

Part Number Code	R	T
LHF04	10	14
	12	15

LHF04 — R10

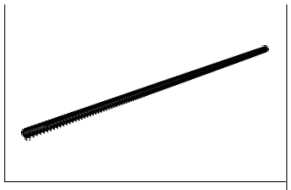
Discount price

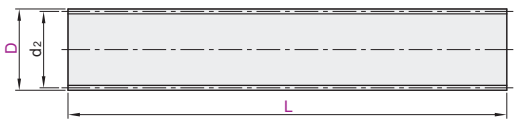
Per	1~3	4~
Price	100%	Additional quotation

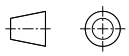
Delivery 10

Right-Hand Thread
Straight

Code	Type	Thread Turn Direction	Fit Form	Material		Surface Treatment
				GB	Equiv.	
LHJ17	Straight	Right-Hand Thread	Normal Type	45	S45C	Black Oxide







The first perspective

Part Number		L	Pitch P	Effective Dia. d_2	Screw Shaft Minor Dia. (min)	Screw Shaft Lead Angle
Code	D	0.5 mm Increment				
Right-Hand Thread LHJ17	10	70~1000	2	9	7.2	4°03′
	12			11	9.2	3°19′
	14		3	12.5	10.1	4°22′
	16	80~1200		14.5	12.1	3°46′
	18		4	16	13.1	4°33′
	20			18	15.1	4°03′
	22	120~1200		19.5	16.1	4°40′
	25		5	22.5	19	4°03′
	28			25.5	22	3°34′
	32			29	24.5	3°46′
	36	150~1200	6	33	28.5	3°19′
	40			37	32.5	2°57′

Please order as shown

Part Number		L
Code	D	
LHJ17	10	70~1000
	12	
	14	

LHJ17 — D10 — L100

Optional Processing

Part Number		L	Optional Processing Code
Code	D		
LHJ17	10	70~1000	MC( ) MQ( )
	12		
	14		

LHJ17 — D10 — L100 — MC5

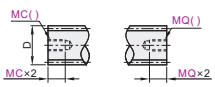
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 10

Optional Processing

Code	MC( ) MQ( )
Spec.	**Add End Face Threaded Hole**



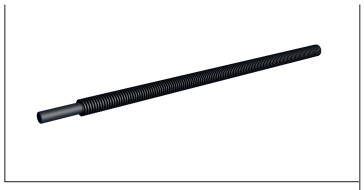
MC( ) (Left End)

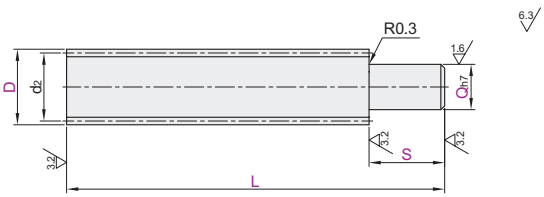
MQ( ) (Right End)

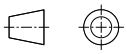
Ordering Code MC24

D	MC·MQ(Selection Range)
10	3·4·5
12·14	3·4·5·6
16	3·4·5·6·8
18	3·4·5·6·8·10
20·22	3·4·5·6·8·10·12
25·28	3·4·5·6·8·10·12·16
32	3·4·5·6·8·10·12·16·20·24
36·40	3·4·5·6·8·10·12·16·20·24·30

Code	Type	Thread Turn Direction	Fit Form	Material GB	Material Equiv.	Surface Treatment
LHL17	One End Stepped	Right-Hand Thread	Normal Type	45	S45C	Black Oxide







The first perspective

Part Number Code	D	0.5mm Increment L	S	Q Selection	Pitch P	Effective Dia.d2	Screw Shaft Minor Dia.(min)	Screw Shaft Lead Angle
Right-Hand Thread LHL17	10			6 7	2	9	7.2	4°03′
	12	40~500		6 7 8 9		11	9.2	3°19′
	14			6 7 8 9 10	3	12.5	10.1	4°22′
	16	70~1000		6 7 8 9 10 12		14.5	12.1	3°46′
	18		3≤S≤Q×8	8 9 10 12	4	16	13.1	4°33′
	20			9 10 12 14 15		18	15.1	4°03′
	22	120~1200	! When Q≤9,	9 10 12 14 15		19.5	16.1	4°40′
	25		3≤S≤Q×6	10 12 14 15 16 17	5	22.5	19	4°03′
	28			12 14 15 16 17 20		25.5	22	3°34′
	32			12 14 15 16 17 20 25		29	24.5	3°46′
	36	150~1200		16 17 20 25	6	33	28.5	3°19′
	40			17 20 25 30		37	32.5	2°57′

◉ Applies to Lead Screws with alterations for combination of square machining and tapping

Square Chamfering Q	W(0.5mm Inc.)	Coarse Tapping
6~10	5~8	3
11~14	8~10	3 4
15~19	10~14	3 4 5
20~25	14~20	3 4 5 6 8
26~30	19~24	3 4 5 6 8 10
31~35	22~28	3 4 5 6 8 10 12
36~40	26~30	3 4 5 6 8 10 12 16

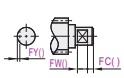
! When flat machining, wrench flats, square chamfering and keyway alterations are combined with each other, their orientations will be random.

! When two or more features are specified on a shaft, some alterations may not be possible due to their correlations.

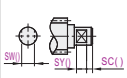
Optional Processing

Alterations

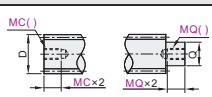
Flat Machining



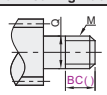
2 Flats Machining



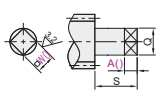
Coarse Tapping



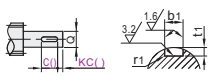
Threaded For Bearing Nut



Square Chamfering



Keyway



Code	FC( )(Q Part)	SC( )(Q Part)	MC( )(Left End) MQ( )(Q Part)	BC( )(Q Part)	ZQ( )(Q Part)	KC( )(Q Part)
Spec.	Ordering Code FC5-FW10-FY1 ! 0.5 mm Inc.	Ordering Code SC5-SW10-SY8 ! 0.5 mm Inc.	Ordering Code MC24	Ordering Code BC20 ! BC≤S-Pitch×3	Ordering Code ZQ15-W10-A10 ! 0.5 mm Inc. ! A=5~20	Ordering Code KC8-C10 ! 0.5 mm Inc. ! When KC=0, keyway R will be eliminated on the end.

MC·MQ

D·Q	MC·MQ(Selection)
6	3
7·8	3·4
9·10	3·4·5
12·14	3·4·5·6
15·16	3·4·5·6·8
17·18	3·4·5·6·8·10
20·22	3·4·5·6·8·10·12
25·28·30	3·4·5·6·8·10·12·16
32·35	3·4·5·6·8·10·12·16·20
36·40	3·4·5·6·8·10·12·16·20·24

BC

Q	M×Pitch
6	M 6×0.75
8	M 8×1.0
10	M10×1.0
12	M12×1.0
14	M14×1.0
15	M15×1.0
17	M17×1.0
20	M20×1.0
25	M25×1.5
30	M30×1.5
35	M35×1.5
40	M40×1.5

ZQ

ZQ=Q	W(1 mm Inc.)
6·7	5
8	6
9	7
10	8
12	9 10
14·15	10 11 12
16	11 12 13
17	12 13 14
20	14 15 16
25	17~20
30	21~24
35	25~28
40	29~30

KC

Q	Keyway Dimension b1 Ref. Dim.	b1 Tol. (N9)	t1 Ref. Dim.	t1 Tol.	r1
6~7	2	-0.004 -0.029	1.2	+0.1 0	0.08 ~ 0.16
8~10	3		1.8		
11~12	4	0 -0.030	2.5		
13~17	5		3.0		0.16 ~ 0.25
18~22	6		3.5		
23~30	8	0 -0.036	4.0	+0.2 0	
31~38	10		5.0		0.25 ~ 0.40
39~40	12	0 -0.043	5.0		

Please order as shown

Part Number Code	D	0.5mm Increment L	S	Q Selection
LHL17	10	40~500	When Q≤9	6 7
	12			6 7 8 9
	14		3≤S≤Q×6	6 7 8 9 10

LHL17—D10—L250—S20—Q7

◉ Optional Processing

Part Number Code	D	0.5mm Increment L	S	Q Selection	Optional Processing Code
LHL17	10	40~500	When Q≤9	6 7	KC()
	12			6 7 8 9	SC()...
	14		3≤S≤Q×6	6 7 8 9 10	

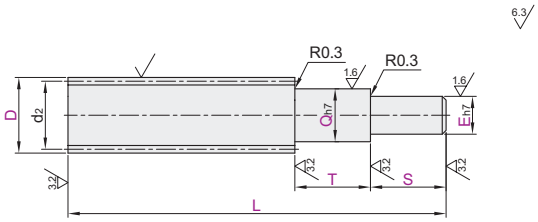
LHL17—D10—L250—S20—Q7—FC5-FW10-FY1

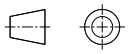
Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 10

Code	Type	Thread Turn Direction	Fit Form	Material GB	Material Equiv.	Surface Treatment
LHP17	One End Double Stepped	Right-Hand Thread	Normal Type	45	S45C	Black Oxide

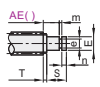
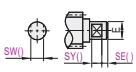
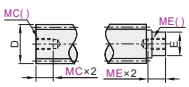
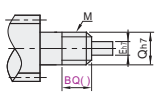
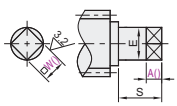
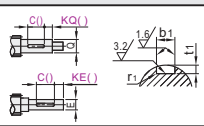



The first perspective

Part Number Code	D	0.5 mm Increment L	T·S	Q Selection	0.5 mm Inc. E	Pitch P	Effective Dia.d2	Screw Shaft Minor Dia.(min)	Screw Shaft Lead Angle
Right-Hand Thread LHP17	12	70~1000	3≤T≤Q×8 3≤S≤E×8 When Q≤9, 3≤T≤Q×6 3≤S≤E×6	7 8 9	Q/2≤E≤Q-1.5	2	11	9.2	3°19′
	14			7 8 9 10		3	12.5	10.1	4°22′
	16			8 9 10 12			14.5	12.1	3°46′
	18	80~1200				4	16	13.1	4°33′
	20			9 10 12 14 15			18	15.1	4°03′
	22						19.5	16.1	4°40′
	25	120~1200		10 12 14 15 16 17		5	22.5	19	4°03′
	28			12 14 15 16 17 20			25.5	22	3°34′
	32			12 14 15 16 17 20 25			29	24.5	3°46′
	36	150~1200		16 17 20 25		6	33	28.5	3°19′
	40			17 20 25 30			37	32.5	2°57′

Optional Processing

Alterations

Retaining Ring Groove	2 Flats Machining	Coarse Tapping	Threaded For Bearing Nut	Square Chamfering	Keyway
					
Code: AE( )(E Part)	SE( )(E Part)	MC( )(Left End) ME( )(E Part)	BQ( )(Q Part)	ZE( )(E Part)	KQ( )(Q Part) KE( )(E Part)

Spec.

Ordering Code AE13.3
- 0.1 mm Inc.
- See P1499 for the size of the retaining ring groove.

Ordering Code
SE3-SW10-SY7
- 0.5 mm Inc.

Ordering Code ME24

D·E	MC·ME(Selection)
5	3
6	3
7·8	3·4
9·10	3·4·5
11·12	3·4·5·6
13~15	3·4·5·6·8
16·17	3·4·5·6·8·10
18~24	3·4·5·6·8·10·12
25~30	3·4·5·6·8·10·12·16
31~39	3·4·5·6·8·10·12·16·20
40·50	3·4·5·6·8·10·12·16·20·24·30

Ordering Code BQ20
- BQ≤T-Pitch×3

Q	M×Pitch
8	M8×1.0
10	M10×1.0
12	M12×1.0
14	M14×1.0
15	M15×1.0
17	M17×1.0
20	M20×1.0
25	M25×1.5
30	M30×1.5
35	M35×1.5
40	M40×1.5

Ordering Code ZE12-W10-A8
- 0.5 mm Inc.
- A=5~20.

ZE=E	W(1 mm Inc.)
6~10	5~8
11~14	8~10
15~19	10~14
20~25	14~20
26~30	19~24
31~35	22~28
36~40	26~30

Ordering Code KQ8-C10
- 0.5 mm Inc.
- When KQ and KE = 0, the shape of the keyway is as up above:

Q/E	Keyway Dimension b1 Ref. Dim.	b1 Tol. (N9)	t1 Ref. Dim.	t1 Tol.	r1
6~7	2	-0.004 / -0.029	1.2	+0.1 / 0	0.08 ~ 0.16
8~10	3		1.8		
11~12	4	0 / -0.030	2.5		
13~17	5		3.0		0.16 ~ 0.25
18~22	6		3.5		
23~30	8	0 / -0.036	4.0	+0.2 / 0	
31~38	10		5.0		0.25 ~ 0.40
39~40	12	0 / -0.043	5.0		

Please order as shown

Part Number Code	D	L	T·S	Q Selection	E
LHP17	12 14	70~1000	3≤T≤Q×6 3≤S≤E×6	7 8 9 7 8 9 10	Q/2≤E≤Q-1.5

LHP17—D12—L201—T5—S16—Q8—E6.5

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 10

Optional Processing

Part Number Code	D	L	T·S	Q Selection	E	Optional Processing Code
LHP17	12 14	70~1000	3≤T≤Q×6 3≤S≤E×6	7 8 9 7 8 9 10	Q/2≤E≤Q-1.5	AE( ) SE( )...

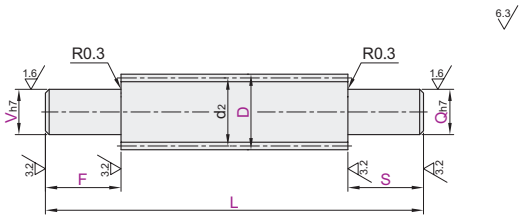
LHP17—D12—L201—T5—S16—Q8—E6.5—AE10

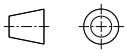
Lead Screws

Right-Hand Thread

Both Ends Stepped

Code	Type	Thread Turn Direction	Fit Form	Material GB	Material Equiv.	Surface Treatment
LHR17	Both Ends Stepped	Right-Hand Thread	Normal Type	45	S45C	Black Oxide



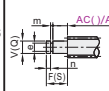
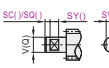
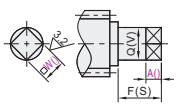
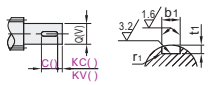


The first perspective

Part Number Code	D	0.5 mm Increment L	F·S	V·Q Selection	Pitch P	Effective Dia. d_2	Screw Shaft Minor Dia. (min)	Screw Shaft Lead Angle
Right-Hand Thread LHR17	10			6 7	2	9	7.2	4°03′
	12	70~1000		6 7 8 9		11	9.2	3°19′
	14			7 8 9 10	3	12.5	10.1	4°22′
	16	80~1200	3≤F≤V×8	8 9 10 12		14.5	12.1	3°46′
	18		3≤S≤Q×8		4	16	13.1	4°33′
	20			8 9 10 12 14 15		18	15.1	4°03′
	22	120~1200	! When V、Q≤9,			19.5	16.1	4°40′
	25		3≤F≤V×6	9 10 12 14 15 16 17	5	22.5	19	4°03′
	28		3≤S≤Q×6	10 12 14 15 16 17 20		25.5	22	3°34′
	32			12 14 15 16 17 20 25		29	24.5	3°46′
	36	150~1200		15 16 17 20 25	6	33	28.5	3°19′
	40			16 17 20 25 30		37	32.5	2°57′

Optional Processing

Alterations

Retaining Ring Groove	2 Flats Machining	Coarse Tapping	Threaded For Bearing Nut	Square Chamfering	Keyway
					
Code: AC( )(V Part) AQ( )(Q Part)	Code: SC( )(V Part) SQ( )(Q Part)	Code: MC( )(V Part) MQ( )(Q Part)	Code: BV( )(V Part) BC( )(Q Part)	Code: ZC( )(V Part) ZQ( )(Q Part)	Code: KV( )(V Part) KC( )(Q Part)

Spec.

AC( )(V Part) AQ( )(Q Part)

Ordering Code AE13.3

! 0.1 mm Inc.

! See P1499 for the size of the retaining ring groove.

SC( )(V Part) SQ( )(Q Part)

Ordering Code

SC3-SW10-SY7

! 0.5 mm Inc.

MC( )(V Part) MQ( )(Q Part)

Ordering Code MC24

V·Q	MC·MQ(Selection)
6	3
7·8	3·4
9·10	3·4·5
12·14	3·4·5·6
15·16	3·4·5·6·8
17·18	3·4·5·6·8·10
20·22	3·4·5·6·8·10·12
25·28·30	3·4·5·6·8·10·12·16
32·35	3·4·5·6·8·10·12·16·20
36·40·50	3·4·5·6·8·10·12·16·20·24

BV( )(V Part) BC( )(Q Part)

Ordering Code BC20

! BV,BC≤F,S-Pitch×3

V·Q	M×Pitch
6	M6×0.75
8	M8×1.0
10	M10×1.0
12	M12×1.0
14	M14×1.0
15	M15×1.0
17	M17×1.0
20	M20×1.0
25	M25×1.5
30	M30×1.5
35	M35×1.5
40	M40×1.5

ZC( )(V Part) ZQ( )(Q Part)

Ordering Code ZC12-W10-A8

! 0.5 mm Inc.

! A=5~20

ZC=V,ZQ=Q	W(1 mm Inc.)
6·7	5
8	6
9	7
10	8
12	9 10
14·15	10 11 12
16	11 12 13
17	12 13 14
20	14 15 16
25	17~20
30	21~24
35	25~28
40	29~30

KV( )(V Part) KC( )(Q Part)

Ordering Code KV8-C10

! 0.5 mm Inc.

! When KV and KC = 0, the shape of the keyway is as up above:

V·Q	Keyway Dimension b1 Ref. Dim.	b1 Tol. (N9)	t1 Ref. Dim.	t1 Tol.	r1
6~7	2	-0.004 -0.029	1.2	+0.1 0	0.08 ~ 0.16
8~10	3		1.8		
11~12	4	0 -0.030	2.5		
13~17	5		3.0		0.16 ~ 0.25
18~22	6		3.5		
23~30	8	0 -0.036	4.0	+0.2 0	
31~38	10		5.0		0.25 ~ 0.40
39~40	12	0 -0.043	5.0		

Please order as shown

Part Number Code	D	L	F·S	V·Q Selection
LHR17	12	70~1000	3≤F≤V×6	6 7 8 9
	14		3≤S≤Q×6	7 8 9 10

LHR17—D12—L201—F15—S10—V9—Q7

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 10

Optional Processing

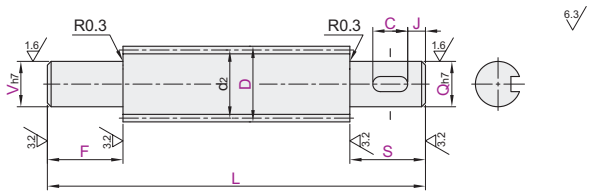
Part Number Code	D	L	F·S	V·Q Selection	Optional Processing Code
LHR17	12	70~1000	3≤F≤V×6	6 7 8 9	AC( ) AQ( )...
	14		3≤S≤Q×6	7 8 9 10	

LHR17—D12—L201—F15—S10—V9—Q7—AC7

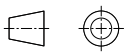
Lead Screws

Right-Hand Thread
Both Ends Stepped,with Keyway

Code	Type		Thread Turn Direction	Fit Form	Material		Surface Treatment
					GB	Equiv.	
LHU07	Both Ends Stepped	With Keyway	Right-Hand Thread	Normal Type	45	S45C	Black Oxide



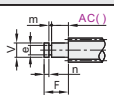
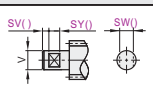
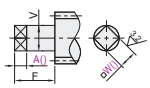
Keyway sizes, see the previous page (KV / KC).



The first perspective

Part Number Code	D	0.5 mm Increment L	F·S	V·Q Selection	0.5 mm Increment C	J	Pitch P	Effective Dia.d_2	Screw Shaft Minor Dia.(min)	Screw Shaft Lead Angle
Right-Hand Thread LHU07	12	70~1000	3≤F≤V×8 3≤S≤Q×8 When V、Q≤9, 3≤F≤V×6 3≤S≤Q×6	7 8 9	C≤60 3≤S-C-J	J≥2.5 or J=0, When J=0, keyway R will be eliminated on the shaft end side.	2	11	9.2	3°19′
	14						3	12.5	10.1	4°22′
	16	80~1200		8 9 10 12				14.5	12.1	3°46′
	18						4	16	13.1	4°33′
	20			9 10 12 14 15				18	15.1	4°03′
	22	120~1200					5	19.5	16.1	4°40′
	25			10 12 14 15 16 17				22.5	19	4°03′
	28			12 14 15 16 17 20				25.5	22	3°34′
	32			12 14 15 16 17 20 25				29	24.5	3°46′
	36	150~1200		16 17 20 25			6	33	28.5	3°19′
	40			17 20 25 30				37	32.5	2°57′

Optional Processing

Alterations	Retaining Ring Groove	2 Flats Machining	Coarse Tapping	Square Chamfering
				
Code	AC( )(V Part)	SV( )(V Part)	MV( )(V Part) MQ( )(Q Part)	ZV( )(V Part)
Spec.	Ordering Code AC13.3 0.1 mm Inc.	Ordering Code SV5-SW10-SY8 0.5 mm Inc.	Ordering Code MV24	Ordering Code ZV10-W8-A8 0.5 mm Inc. A=5~20

Spec. — Retaining Ring Groove:

V	e	Tolerance	$m^{+0.14}_{0}$	n
7	4	$^{+0.075}_{0}$	0.7	n≥1.2
8	5			
9	6		0.9	
10	9.6	$^{0}_{-0.09}$		
12	11.5			
14	13.4	$^{0}_{-0.11}$	1.15	
15	14.3			
16	15.2			n≥1.5
17	16.2			
20	19	$^{0}_{-0.21}$	1.35	
25	23.9			
30	28.6		1.65	

Spec. — Coarse Tapping:

V·Q	MV·MQ(Selection)
6	3
7·8	3·4
9·10	3·4·5
12·14	3·4·5·6
15·16	3·4·5·6·8
17·18	3·4·5·6·8·10
20·22	3·4·5·6·8·10·12
25·28·30	3·4·5·6·8·10·12·16
32·35	3·4·5·6·8·10·12·16·20
36·40·50	3·4·5·6·8·10·12·16·20·24

Spec. — Square Chamfering:

ZV=V	W(1 mm Inc.)
6·7	5
8	6
9	7
10	8
12	9 10
14·15	10 11 12
16	11 12 13
17	12 13 14
20	14 15 16
25	17~20
30	21~24
35	25~28
40	29~30

Please order as shown

Part Number Code	D	L	F·S	V·Q Selection	C	J
LHU07	12	70~1000	3≤F≤V×8 3≤S≤Q×8	7 8 9	C≤60 3≤S-C-J	J≥2.5 or J=0
	14					
	16	80~1200		8 9 10 12		

LHU07—D16—L 800—F12—S30—V12—Q12—C10—J5

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 10

Optional Processing

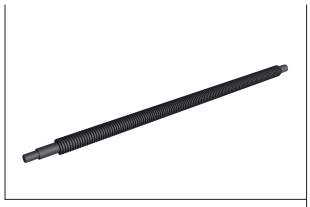
Part Number Code	D	L	F·S	V·Q Selection	C	J	Optional Processing Code
LHU07	12	70~1000	3≤F≤V×8 3≤S≤Q×8	7 8 9	C≤60 3≤S-C-J	J≥2.5 or J=0	AC( ) ZV( )...
	14						
	16	80~1200		8 9 10 12			

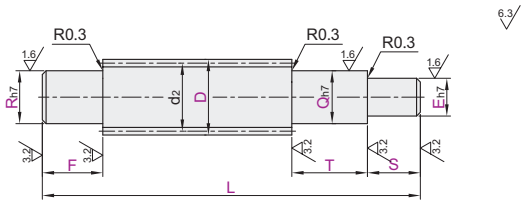
LHU07—D16—L 800—F12—S30—V12—Q12—C10—J5—ZV12-W9-A5

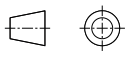
Right-Hand Thread

One End Stepped One End Double Stepped

Code	Type	Thread Turn Direction	Fit Form	Material		Surface Treatment
				GB	Equiv.	
LHY17	One End Stepped One End Double Stepped	Right-Hand Thread	Normal Type	45	S45C	Black Oxide



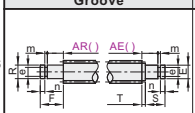
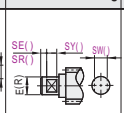
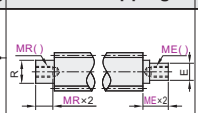
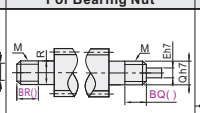
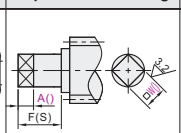
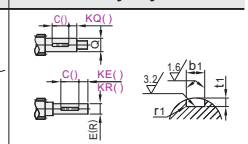




The first perspective

Part Number Code	D	0.5 mm Increment L	F·T·S	Q·R Selection	0.5 mm Inc. E	Pitch P	Effective Dia. d_2	Screw Shaft Minor Dia. (min)	Screw Shaft Lead Angle
Right-Hand Thread LHY17	12	70~1000	3≤F≤Q×8 3≤T≤R×8 3≤S≤E×8 When Q·R·E≤9 3≤F≤Q×5 3≤T≤R×5 3≤S≤E×5	7 8 9	Q/2≤E≤Q-1.5	2	11	9.2	3°19′
	14			7 8 9 10		3	12.5	10.1	4°22′
	16	80~1200		8 9 10 12			14.5	12.1	3°46′
	18					4	16	13.1	4°33′
	20			8 9 10 12 14 15			18	15.1	4°03′
	22	120~1200					19.5	16.1	4°40′
	25			10 12 14 15 16 17		5	22.5	19	4°03′
	28			12 14 15 16 17 20			25.5	22	3°34′
	32			12 14 15 16 17 20 25			29	24.5	3°46′
	36	150~1200		16 17 20 25		6	33	28.5	3°19′
	40			16 17 20 25 30			37	32.5	2°57′

Optional Processing

	Retaining Ring Groove	2 Flats Machining	Coarse Tapping	Threaded For Bearing Nut	Square Chamfering	Keyway
Alterations						
Code	AR( )(R Part) AE( )(E Part)	SR( )(R Part) SE( )(E Part)	MR( )(R Part) ME( )(E Part)	BR( )(R Part) BQ( )(Q Part)	ZR( )(R Part) ZE( )(E Part)	KQ( )(Q Part) KR( )(R Part) KE( )(E Part)

Spec.

Ordering Code AR13.3
0.1 mm Inc.

RE	e	Tolerance	$m^{+0.14}_{0}$	n
7	4	$^{+0.075}_{0}$	0.7	n≥1.2
8	5			
9	6		0.9	
10	9.6	$^{0}_{-0.09}$	1.15	n≥1.5
12	11.5	$^{0}_{-0.11}$		
14	13.4			
15	14.3			
16	15.2			
17	16.2			
20	19	$^{0}_{-0.21}$	1.35	
25	23.9			
30	28.6		1.65	
35	33	$^{0}_{-0.25}$		
40	38		1.9	n≥2

Ordering Code SE3-SW10-SY7
0.5 mm Inc.

Ordering Code MR24

R·E	ME·MR(Selection)
5	3
6	3
7·8	3·4
9·10	3·4·5
11·12	3·4·5·6
13~15	3·4·5·6·8
16·17	3·4·5·6·8·10
18~24	3·4·5·6·8·10·12
25~30	3·4·5·6·8·10·12·16
31~39	3·4·5·6·8·10·12·16·20
40	3·4·5·6·8·10·12·16·20·24·30

Ordering Code BR20
BR, BQ≤F, T-Pitch×3

R·Q	M×Pitch
8	M8×1.0
10	M10×1.0
12	M12×1.0
14	M14×1.0
15	M15×1.0
17	M17×1.0
20	M20×1.0
25	M25×1.5
30	M30×1.5
35	M35×1.5
40	M40×1.5

Ordering Code ZE12-W10-A8
0.5 mm Inc.
A=5~20

ZR=R·ZE=E	W
6~10	5~8
11~14	8~10
15~19	10~14
20~25	14~20
26~30	19~24
31~35	22~28
36~40	26~30

Ordering Code KQ8-C10
0.5 mm Inc.
When KR、KQ or KE = 0, the shape of the keyway is as up above:

Q·R·E	Keyway Dimension b1 Ref. Dim.	b1 Tol. (N9)	t1 Ref. Dim.	t1 Tol.	r1
6~7	2	$^{-0.004}_{-0.029}$	1.2	$^{+0.1}_{0}$	0.08 ~ 0.16
8~10	3		1.8		
11~12	4	$^{0}_{-0.030}$	2.5		
13~17	5		3.0		0.16 ~ 0.25
18~22	6		3.5		
23~30	8	$^{0}_{-0.036}$	4.0	$^{+0.2}_{0}$	
31~38	10		5.0		0.25 ~ 0.40
39~40	12	$^{0}_{-0.043}$	5.0		

Please order as shown

Part Number Code	D	L	F·T·S	Q·R	E
LHY17	12	70~1000	3≤R≤R×5	7 8 9	Q/2≤E≤Q-1.5
	14		3≤T≤Q×5	7 8 9 10	
	16	80~1200	3≤S≤D×5	8 9 10 12	

LHY17—D12—L401—F10—T16—S10—Q8—R8—E6

Discount price

Per	1~4	5~
Price	100%	Additional quotation

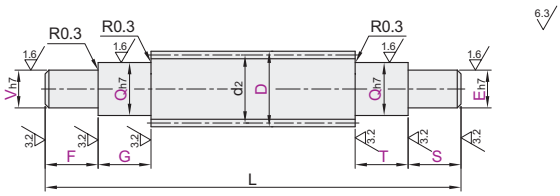
Delivery 10

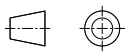
Optional Processing

Part Number Code	D	L	F·T·S	Q·R	E	Optional Processing Code
LHY17	12	70~1000	3≤R≤R×5	7 8 9	Q/2≤E≤Q-1.5	AR( ) BR( )...
	14		3≤T≤Q×5	7 8 9 10		
	16	80~1200	3≤S≤D×5	8 9 10 12		

LHY17—D12—L401—F10—T16—S10—Q8—R8—E6—BR5

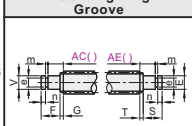
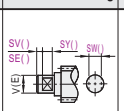
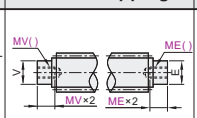
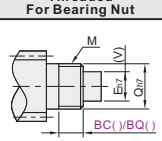
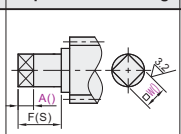
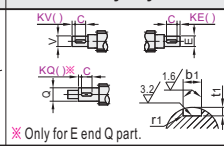
Code	Type	Thread Turn Direction	Fit Form	Material		Surface Treatment
				GB	Equiv.	
LJC17	Both Ends Double Stepped	Right-Hand Thread	Normal Type	45	S45C	Black Oxide




The first perspective

Part Number Code	D	0.5 mm Increment L	F·G·T·S	V·Q Selection	0.5 mm Inc. E	Pitch P	Effective Dia.d_2	Screw Shaft Minor Dia.(min)	Screw Shaft Lead Angle
Right-Hand Thread LJC17	12	70~1000	3≤F≤V×8	7 8 9	Q/2≤E≤Q-1.5	2	11	9.2	3°19′
	14		3≤G≤Q×8	7 8 9 10		3	12.5	10.1	4°22′
	16	80~1200	3≤T≤Q×8	8 9 10 12			14.5	12.1	3°46′
	18		3≤S≤E×8			4	16	13.1	4°33′
	20			8 9 10 12 14 15			18	15.1	4°03′
	22	120~1200	When Q·V·E≤9				19.5	16.1	4°40′
	25		3≤F≤V×5	9 10 12 14 15 16 17		5	22.5	19	4°03′
	28		3≤G≤Q×5	10 12 14 15 16 17 20			25.5	22	3°34′
	32		3≤T≤Q×5	12 14 15 16 17 20 25			29	24.5	3°46′
	36	150~1200	3≤S≤E×5	15 16 17 20 25		6	33	28.5	3°19′
	40			16 17 20 25 30			37	32.5	2°57′

Optional Processing

	Retaining Ring Groove	2 Flats Machining	Coarse Tapping	Threaded For Bearing Nut	Square Chamfering	Keyway
Alterations						 ※ Only for E end Q part.
Code	AC( )(V Part) AE( )(E Part)	SV( )(V Part) SE( )(E Part)	MV( )(V Part) ME( )(E Part)	BC( )(V Part) BQ( )(E Part)	ZV( )(V Part) ZE( )(E Part)	KQ( )(Q Part) KV( )(V Part) KE( )(E Part)
Spec.	Ordering Code AC13.3 0.1 mm Inc. V·E / e Tolerance / $m^{+0.14}_{0}$ / n 7 4 / 8 5 ($^{+0.075}_{0}$) / 0.7 / n≥1.2 9 6 / 0.9 10 9.6 ($^{0}_{-0.09}$) 12 11.5 14 13.4 / 15 14.3 ($^{0}_{-0.11}$) / 1.15 / n≥1.5 16 15.2 17 16.2 20 19 25 23.9 / 30 28.6 ($^{0}_{-0.21}$) / 1.35 35 33 / 40 38 ($^{0}_{-0.25}$) / 1.65 1.9 / n≥2	Ordering Code SV3-SW10-SY7 0.5 mm Inc.	Ordering Code MV24 V·E / MV·ME(Selection) 5 / 3 6 / 3 7·8 / 3·4 9·10 / 3·4·5 11·12 / 3·4·5·6 13~15 / 3·4·5·6·8 16·17 / 3·4·5·6·8·10 18~24 / 3·4·5·6·8·10·12 25~30 / 3·4·5·6·8·10·12·16 31~39 / 3·4·5·6·8·10·12·16·20 40 / 3·4·5·6·8·10·12·16·20·24·30	Ordering Code BQ20 BC,BQ≤G,T-Pitch×3 Q / M×Pitch 8 / M8×1.0 10 / M10×1.0 12 / M12×1.0 14 / M14×1.0 15 / M15×1.0 17 / M17×1.0 20 / M20×1.0 25 / M25×1.5 30 / M30×1.5 35 / M35×1.5 40 / M40×1.5	Ordering Code ZV12-W10-A8 0.5 mm Inc. A=5~20 ZV=V·ZE=E / W 6~10 / 5~8 11~14 / 8~10 15~19 / 10~14 20~25 / 14~20 26~30 / 19~24 31~35 / 22~28 36~40 / 26~30	Ordering Code KQ8-C10 0.5 mm Inc. When KQ、KV and KE = 0, the shape of the keyway is as up above: Q·V·E / Keyway Dimension / b1 Ref. Dim. / b1 Tol. (N9) / t1 Ref. Dim. / t1 Tol. / r1 6~7 / 2 / $^{-0.004}_{-0.029}$ / 1.2 / $^{+0.1}_{0}$ / 0.08 ~ 0.16 8~10 / 3 / 1.8 11~12 / 4 / $^{0}_{-0.030}$ / 2.5 13~17 / 5 / 3.0 / 0.16 ~ 0.25 18~22 / 6 / 3.5 23~30 / 8 / $^{0}_{-0.036}$ / 4.0 31~38 / 10 / 5.0 / $^{+0.2}_{0}$ / 0.25 39~40 / 12 / $^{0}_{-0.043}$ / 5.0 / 0.40

Please order as shown

Part Number Code	D	L	F·G·T·S		V·Q	E
LJC17	12	70~1000	3≤F≤V×8	3≤T≤Q×5	7 8 9	Q/2≤E≤Q-1.5
	14		3≤G≤Q×8	3≤S≤E×5	7 8 9 10	

LJC17 — D12 — L120 — F10 — G20 — T20 — S15 — V7 — Q9 — E7

Discount price

Per	1~4	5~
Price	100%	Additional quotation

Delivery 10

Optional Processing

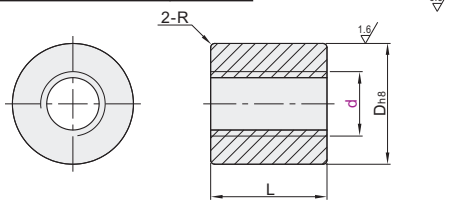
Part Number Code	D	L	F·G·T·S		V·Q	E	Optional Processing Code
LJC17	12	70~1000	3≤F≤V×5	3≤T≤Q×5	7 8 9	Q/2≤E≤Q-1.5	AC( ) BQ( )...
	14		3≤G≤Q×5	3≤S≤E×5	7 8 9 10		

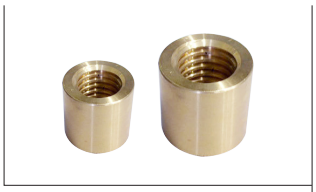
LJC17 — D12 — L120 — F10 — G20 — T20 — S15 — V7 — Q9 — E7 — AC5

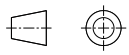
Nuts for Lead Screws

Straight Type

Code	Type	Fit Form	Thread Turn Direction	Material
LJL54	Straight Type	Normal Type	Right-Hand Thread	Brass






The first perspective

Part Number Code	d	Pitch P	D	L	R	Allowable Dynamic Thrust (kN)	Mass(g)
LJL54	10	2	20	20	1.0	2.03	38
	12		22	22		2.81	48
	14	3				3.62	
	16		28	26		4.86	98
	18	4	32	31		6.84	157
	20					7.62	146
	22	5	36	40		9.87	235
	25					11.38	206
	28		44	45	1.5	11.40	388
	32	6				17.03	319
	36		52	49		21.15	526
	40		58	57		27.44	717

Please order as shown

Part Number Code	d	Pitch P
LJL54	10	2
	12	

LJL54— d10

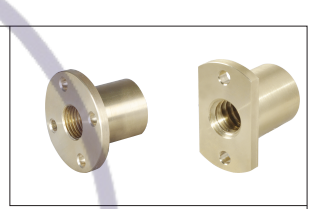
Discount price

Per	1~3	4~
Price	100%	Additional quotation

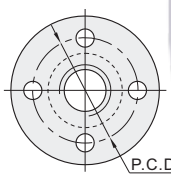
Delivery 10

Flange Type

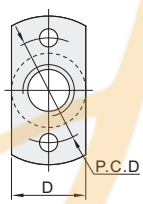
Code	Type		Fit Form	Thread Turn Direction	Material
LJL74	Flange Type	Round Flanged	Normal Type	Right-Hand Thread	Brass
LJL79		Compact Flanged, 2-Hole			
LJL84		Compact Flanged, 4-Hole			



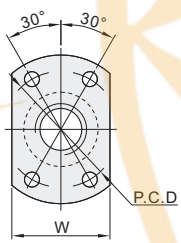
Round Flanged
LJL74

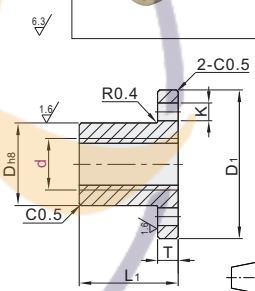


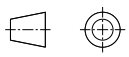
Compact Flanged, 2-Hole
LJL79



Compact Flanged, 4-Hole
LJL84

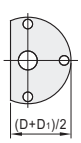
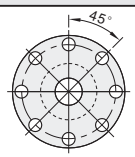





The first perspective

Part Number Code	d	Pitch P	D	L1	D1	T	P.C.D	K	W	Allowable Dynamic Thrust (kN)	Mass(g) LJL74	LJL79	LJL84
Round Flanged LJL74 / Compact Flanged, 2-Hole LJL79 / Compact Flanged, 4-Hole LJL84	10	2	20	24	37	5	26	4.3	23	2.50	78	63	65
	12		22	30	45		31	5.3	25	3.90	118	93	95
	14	3								4.50	108	84	85
	16		28	35	52		38		31	6.62	195	166	170
	18	4	32	40	57	6	42		35	8.70	255	217	218
	20							6.3		9.80			216
	22	5	36	50	62	7	47		41	12.35	406	355	360
	25									14.20	347	286	295
	28		44	56	77	8	58	9	49	17.90	628	535	545
	32									21.05	578	485	495
	36	6	52	60	85		66		57	25.75	818	715	725
	40		58	70	99	10	76	11	63	33.80	1246	1030	1040

Optional Processing

Alterations	Flange Machining,One-Side	Add Holes,8-Hole
Code	DA	PA
Spec.	Ordering Code DA  Only applicable to Round Flanged.	Ordering Code PA  Only applicable to Round Flanged.

Please order as shown

Part Number Code	d	Pitch P
LJL74	10	2
	12	

LJL74 — d10

Optional Processing

Part Number Code	d	Optional Processing Code
LJL74	10	DA PA
	12	

LJL74 — d10 — DA

Discount price

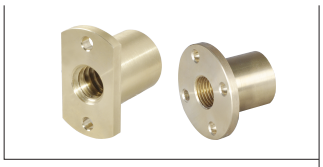
Per	1~3	4~
Price	100%	Additional quotation

Delivery 10

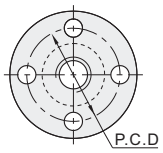
Nuts for Lead Screws

Compact

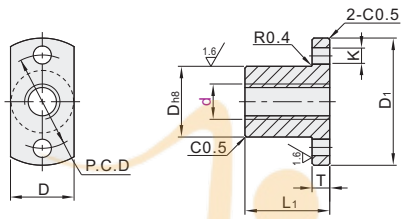
Code	Type			Fit Form	Thread Turn Direction	Material
LJP63	Flanged	Compact	Round Flanged	Normal Type	Right-Hand Thread	Brass
LJP69			Compact Flanged, 2-Hole			

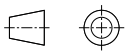


Round Flanged
LJP63



Compact Flanged, 2-Hole
LJP69



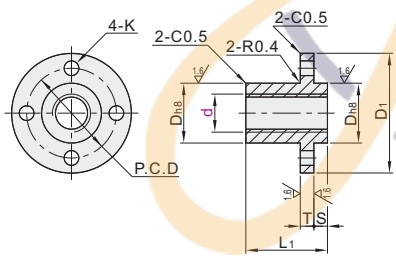

The first perspective

Part Number Code	d	Pitch P	D	L1	D1	T	P.C.D	K	Allowable Dynamic Thrust (KN)	Mass(g) LJP63	Mass(g) LJP69
Round Flanged LJP63 / Compact Flanged, 2-Hole LJP69	10	2	16	19	33	4	24	3.3	1.98	38	27
	12		18	24	37		27		3.10	58	45
	14	3	20		39	5	29	4.3	3.88	72	56
	16		22	28	41		31		5.30	88	71
	20	4	26	32	45		35		7.81	110	92
	22		28	40	51	6	39	5.3	9.83	173	140
	25	5	31		54		42		11.33	172	140
	28		34	45	59	7	46	6.3	14.38	212	168
	32	6	38		63		50		16.89	270	225

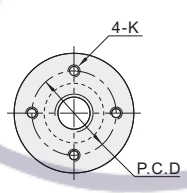
Pilot / Tapped Holes / Slotted Holes

Code	Type		Fit Form	Thread Turn Direction	Material
LJP81	Flanged	Pilot	Normal Type	Right-Hand Thread	Brass
LJP86		Tapped Holes			
LJP91		Slotted Holes			

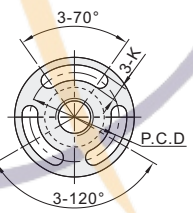
Pilot
LJP81

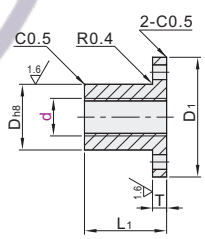


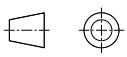
Tapped Holes
LJP86



Slotted Holes
LJP91






The first perspective

Part Number Code	d	Pitch P	D	L1	D1 LJP81	D1 LJP86 LJP91	T	S	P.C.D LJP81	P.C.D LJP86 LJP91	K LJP81 LJP91	K LJP86	Allowable Dynamic Thrust (kN)	Mass(g) LJP81	Mass(g) LJP86	Mass(g) LJP91
Pilot LJP81 / Tapped Holes LJP86 / Slotted Holes LJP91	*14	3	22	30	45	45	5	5	33	31	5.3	M4	4.88	108	110	96
	*16		28	35	53	52	6	6	40	38	6.5	M5	6.65	201	202	177
	*20	4	32	40	57	57			44	42			9.80	258	262	233
	*22	5	36	50	61	62	7		48	47			12.33	401	411	376
	*25												14.20	342	351	315
	28		44	56	—	77	8	—	—	58	9	M6	17.92	—	643	567
	32	6											21.06		592	518

! * marked sizes are available for LJP81 only.

Please order as shown

Compact

Part Number Code	d	Pitch P
LJP63	10	2
	12	

LJP63—d10

Pilot

Part Number Code	d	Pitch P
LJP81	14	3
	16	

LJP81—d14

Discount price

Per	1~3	4~
Price	100%	Additional quotation

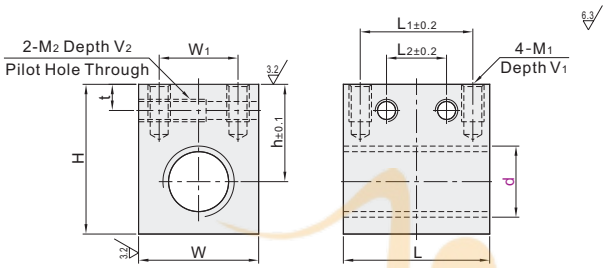
Delivery 10

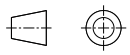
Block Nuts for Lead Screws

◀ Tall Block Type
◀ Wide Block Type

Tall Block Type

Code	Type	Fit Form	Thread Turn Direction	Material
LJR69	Tall Block Type	Normal Type	Right-Hand Thread	Brass



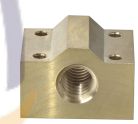


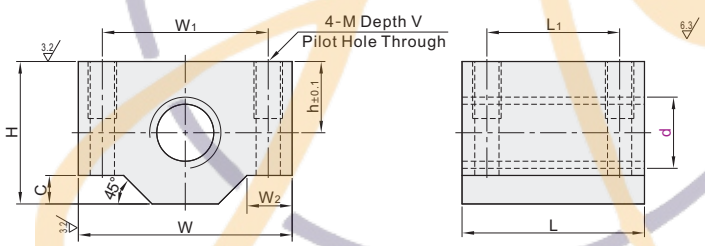
The first perspective

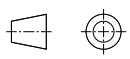
Part Number Code	d	Pitch P	h	W	H	L	L_1	L_2	W_1	M_1	V_1	M_2	V_2	t	Allowable Dynamic Thrust (kN)	Mass (g)
Right-Hand Thread LJR69	10	2	20	21	30	24	16	—	12	M4	8	—	—	6	2.52	98
	12		23	23	34	30	21	9	13	M5	10	M5	15		3.90	148
	14	3													4.88	136
	16		27	29	41	35	25	11	18						6.65	257
	18	4	29	33	45	40	30	16	22						8.70	377
	20									M6	12	M6	18	7	9.80	368
	22		30	37	48	50	40	20	26						12.33	576
	25	5													14.20	535
	28		38	45	60	62	50	25	32	M8	16	M8	22	8	20.00	1046
	32	6													22.80	968

Wide Block Type

Code	Type	Fit Form	Thread Turn Direction	Material
LJR74	Wide BlockType	Normal Type	Right-Hand Thread	Brass







The first perspective

Part Number Code	d	Pitch P	h	W	H	L	L_1	W_1	W_2	C	M	V	Allowable Dynamic Thrust (kN)	Mass (g)
Right-Hand Thread LJR74	10	2	10	31	20	24	16	20	8	4	M4	10	2.50	85
	12		11	39	22	30	20	26					3.90	145
	14	3							10	5	M5	12	4.80	135
	16		14	45	28	35	24	32					6.65	265
	18	4	16	49	32	40	28	36	11	6	M6	15	8.70	370
	20												9.80	355
	22		20	63	38	50	34	46					12.35	665
	25	5							14	10	M8	16	14.20	625
	28		25	69	47	56	40	52					17.90	1040
	32	6											21.05	965

Please order as shown

Tall Block Type

Part Number Code	d	Pitch P
LJR69	10	2
	12	

LJR69 — d10

Wide Block Type

Part Number Code	d	Pitch P
LJR74	10	2
	12	

LJR74 — d10

Discount price

Per	1~3	4~
Price	100%	Additional quotation

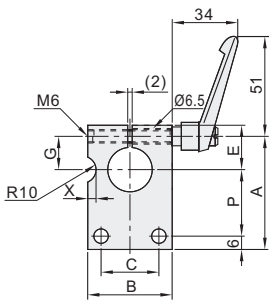
Stop Plate Sets for Lead Screws

2-Screw Mount Type

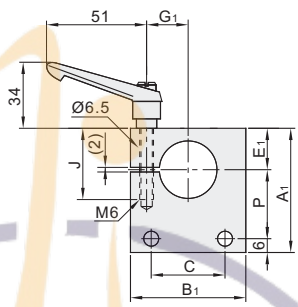
Code	Type	Material		Surface Treatment	Accessory
		GB	Equiv.		
LKM01	Side Handle 2-Screw Type	Q235	SS400	Black Oxide	Clamp Lever
LKM02	Top Handle 2-Screw Type				

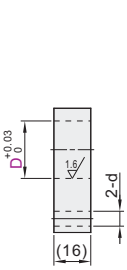
Do not use without inserting the screw shaft (empty tightening). It may deform, causing it unusable.

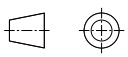
Side Handle 2-Screw Type
LKM01



Top Handle 2-Screw Type
LKM02







The first perspective

Part Number			P	Side Handle 2-Screw Type						Top Handle 2-Screw Type						d	Side Handle 2-Screw Type	Top Handle 2-Screw Type
Code	D			A	B	C	E	G	X	A1	B1	C	E1	G1	J		Clamp Lever	
Side Handle 2-Screw Type LKM01	8		20	43	25	14	17	12	5	33	32	14	7	11	18	5.3	HAJ11-M6-25	HAJ11-M6-16
	10								4	34			8					
	12								3	35			9		22	6.3		HAJ11-M6-20
	15	+0.03 0		44	32	20	18	13	4.7	37	38	20	11	13				
Top Handle 2-Screw Type LKM02	20		30	56	38	26	20	15	4.6	50	44	26	14	15	28		HAJ11-M6-32	HAJ11-M6-25
	25			59		28	23	18	1.3	54	50	28	18	18	35			HAJ11-M6-32
	30			61	44	30	25	20	1.2	57		30	21	20	35		HAJ11-M6-40	

Please order as shown

Part Number	
Code	D
LKM01	8
LKM02	10
	12

LKM01— D12

Discount price

Per	1~3	4~
Price	100%	Additional quotation

Delivery 10