

COMPONENTS FOR CAMS

COMPONENTS FOR CAMS



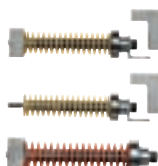
Product name Catalog No.	CAM SLIDE PLATES CSLA	CAM SIDE PLATES CSLP	CAM UPPER PLATES CUPF CUPW	CAM SIDE BLOCKS CSBL
Page	953	953	954	954



CAM STROKE PLATES —30° TYPE— CS30W CS30F	—15° TYPE— CS15W CS15F	CAM BOTTOM GUIDE PLATES CBG	CAM BOTTOM SLIDE PLATES CBP
955	956	957	957



CAM POSITIVE RETURN FOLLOWERS CKF	CAM POSITIVE RETURN BLOCKS CKB	CAM STOPPERS CCS	SILENCER URETHANES CCUC CCUR
958	958	959	960



CAM RETURN UNITS CUKI CUKS CUKA	SPRING GUIDE UNITS CUK	WASHERS CUP CUR
961	963	964

CAM SLIDE PLATES / CAM SIDE PLATES

Cam slide plates

RoHS

CSLA
(L150・L200)

(L250)

M S45C
H 55HRC~
(Induction hardened)

ℓ	ℓ ₁	ℓ ₂	a	b	d ₁	d ₂	T	Catalog No.	W	L	Base unit price 1 ~ 19 pieces
50	—	60	—	—	—	—	—	CSLA	55	150	Quotation
75	—	110	20	8	11	18	20			200	
75	50	160	—	—	—	—	—			250	
50	—	50	—	—	—	—	—		80	150	
75	—	100	25	21	13	20	35			200	
75	50	150	—	—	—	—	—			250	
50	—	40	—	—	—	—	—		95	150	
75	—	90	35	32	18	26	50			200	
75	50	140	—	—	—	—	—			250	

Order

Days to Ship

Example

Catalog No. **CSLA**

W **55** — L **150**

Quotation

Cam upper plate
CUPF・CUPW

Cam slider

Cam side plate
CSLA

Cam side block
CSBL

Slide plate
MWF・SEW・STW

P Price

Quotation

Cam side plates

RoHS

CSLP
(W60・W80)

(W110)

M S45C
H 55HRC~
(Induction hardened)

ℓ	Catalog No.	W	L	Base unit price 1 ~ 19 pieces
50	CSLP	60	150	Quotation
75			200	
100			250	
50		80	150	
75			200	
100			250	
100		110	150	
150			200	
200			250	

Order

Days to Ship

Example

Catalog No. **CSLP**

W **60** — L **150**

Quotation

Cam upper plate
CUPF・CUPW

Cam side plate
CSLP

Slide plate
MWF・SEW・STW

Cam slider

P Price

Quotation

CAM UPPER PLATES / CAM SIDE BLOCKS

Cam upper plates

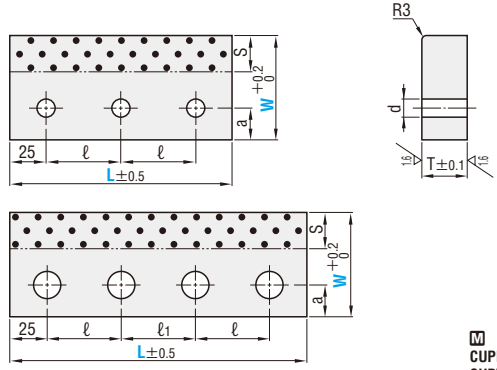
RoHS



CUPF (Cast type)
CUPW (Copper alloy type)

(L150 • L200)

(L250)



M FC250
CUPF Cast type
CUPW Copper alloy

ℓ	ℓ ₁	a	S	d	T	Catalog No.	W	L	Base unit price 1 ~ 19 pieces	
									CUPF	CUPW
50	—	20	12	13	20	CUPF (Cast type)	52	150	Quotation	
75	50							200		
50	—		22		30		72	150		
75	50							200		
50	—		27		35		77	150		
75	50							200		
50	—	25		18			82	150		
75	50							200		
50	—		32		40		105	150		
75	50							200		
50	—							250		
75	50							250		

Order

Catalog No. **W** — **L**

CUPF **52** — **150**

Days to Ship

Quotation

Price

Quotation

Cam side blocks

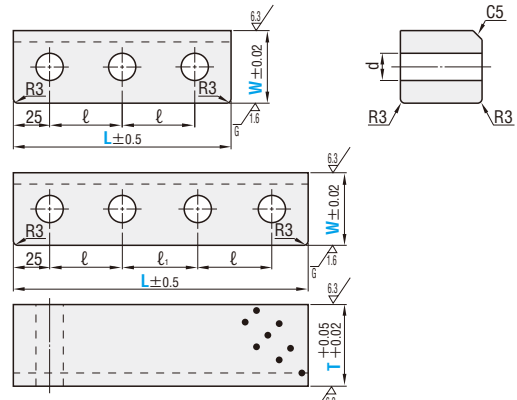
RoHS



CSBL

(L150 • L200)

(L250)



M FC250

ℓ	ℓ ₁	d	Catalog No.	W	L	T	Base unit price 1 ~ 19 pieces	
							CSBL	
50	—	14	CSBL	40	150	30	Quotation	
75	50				200	30		
50	—				250	30		
75	50					40		
50	—	20		50	150	45		
75	50					55		
50	—				200	60		
75	50					70		
50	—				250	45		
75	50					55		
50	—					60		
75	50					70		

Order

Catalog No. **W** — **L** — **T**

CSBL **40** — **150** — **40**

Days to Ship

Quotation

Price

Quotation

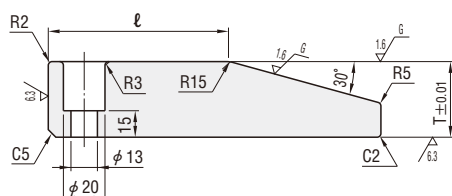
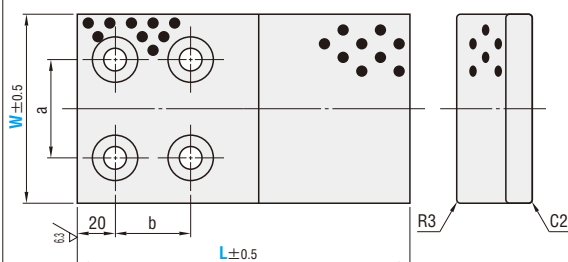
CAM STROKE PLATES

—30° type—

RoHS

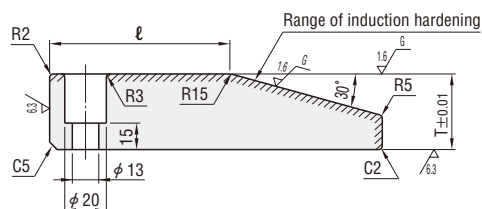
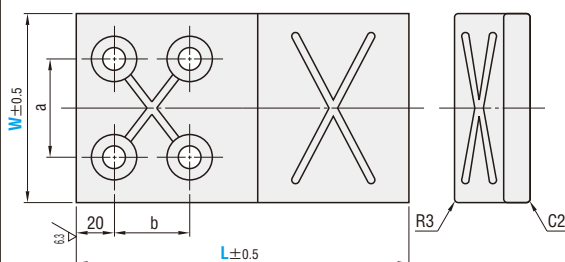


CS30W (Copper alloy type)



M Copper alloy
Special solid lubricant
(embedded)

CS30F (S45C type)



M S45C
H 55HRC ~
(Induction hardened)

T	ℓ	a	b	Catalog No.	W	L	Base unit price 1 ~ 19 pieces	
							CS30W	CS30F
30	95	40	50	CS30W (Copper alloy type)	75	130		
45	90		45			150		
60	120		75			170		
30	95	60	50		100	130		
45	90		45			150		
60	120		75			170		
30	95	85	50		125	130		
45	90		45			150		
60	120		75			170		
30	95	110	50		150	130		
45	90		45			150		
60	120		75			170		

Quotation



Order



Days to Ship

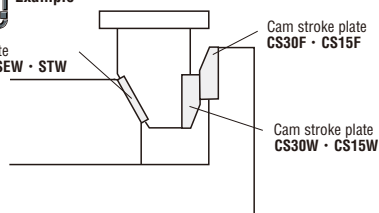


Price



Example

Slide plate
MWF · SEW · STW



Catalog No.	W	L
CS30W	100	200

Quotation

Quotation

CAM STROKE PLATES

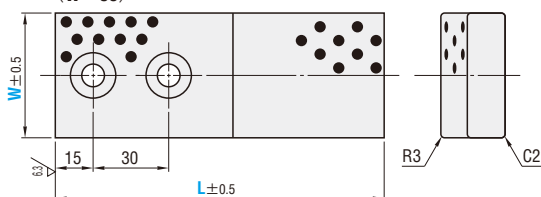
—15° TYPE—

RoHS

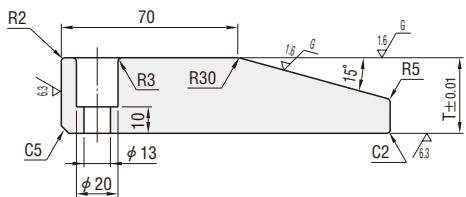
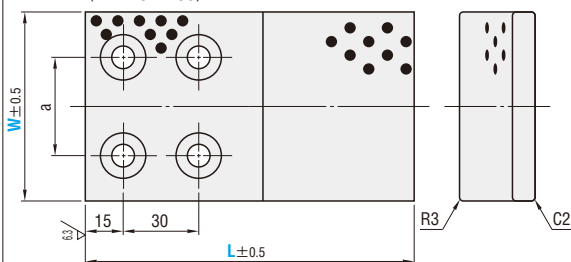


CS15W (Copper alloy type)

(W=50)



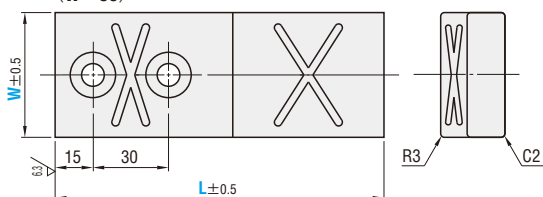
(W=75 · 100)



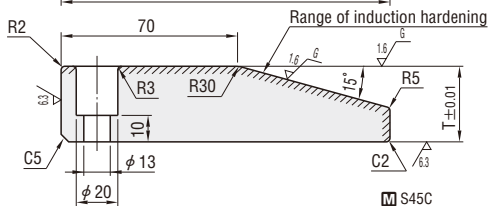
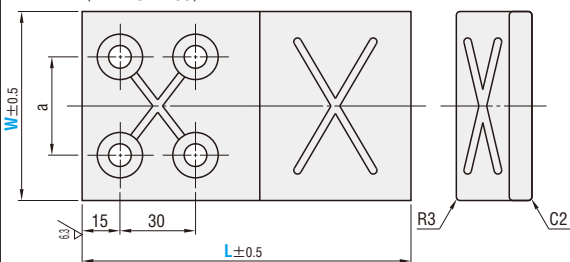
M Copper alloy
Special solid lubricant (embedded)

CS15F (S45C type)

(W=50)



(W=75 · 100)



M S45C
H 55HRC ~
(Induction hardened)

T	a	Catalog No.	W	L	Base unit price 1 ~ 19 pieces	
					CS15W	CS15F
25	—	CS15W (Copper alloy type)	50	110		
30				130		
35				150		
25	40	CS15W (Copper alloy type)	75	110		
30				130		
35				150		
25	60	CS15F (S45C type)	100	110		
30				130		
35				150		

Quotation



Order

Catalog No. **CS15W** W **50** — L **110**



Days to Ship

Quotation



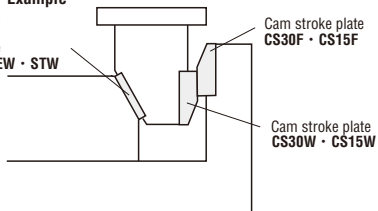
Price

Quotation



Example

Slide plate
MWF · SEW · STW

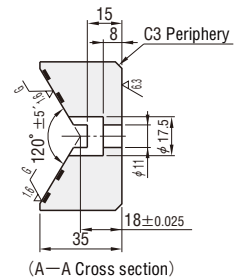
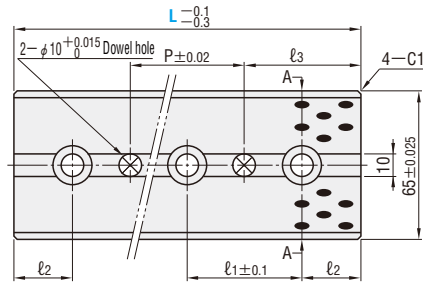


CAM BOTTOM GUIDE PLATES / CAM BOTTOM SLIDE PLATES

Cam bottom guide plates

RoHS

CBG



Copper alloy
Special solid lubricant (embedded)

P	ℓ ₁	ℓ ₂	ℓ ₃	No. of bolt holes	Catalog No.	L	Base unit price 1 ~ 19 pieces
20	60	20	40	2	CBG	100	Quotation
50	50	25	50	3		150	
100				4		200	
150				5		250	
200				6		300	



Order

Catalog No.

CBG

L

200

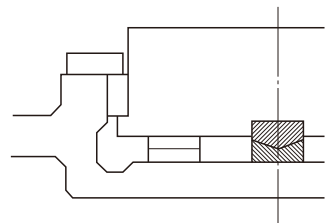


Days to Ship

Quotation



Example



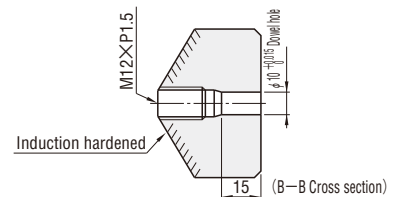
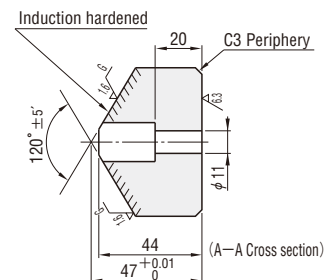
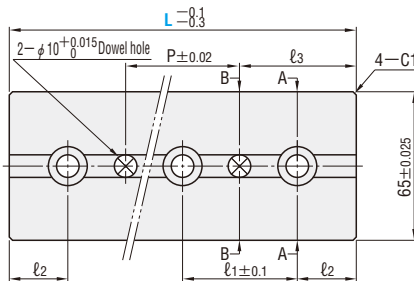
Price

Quotation

Cam bottom slide plates

RoHS

CBP



S45C
 55HRC ~
(Induction hardened)

P	ℓ ₁	ℓ ₂	ℓ ₃	No. of bolt holes	Catalog No.	L	Base unit price 1 ~ 19 pieces
20	60	20	40	2	CBP	100	Quotation
50	50	25	50	3		150	
100				4		200	
150				5		250	
200				6		300	



Order

Catalog No.

CBP

L

100



Days to Ship

Quotation



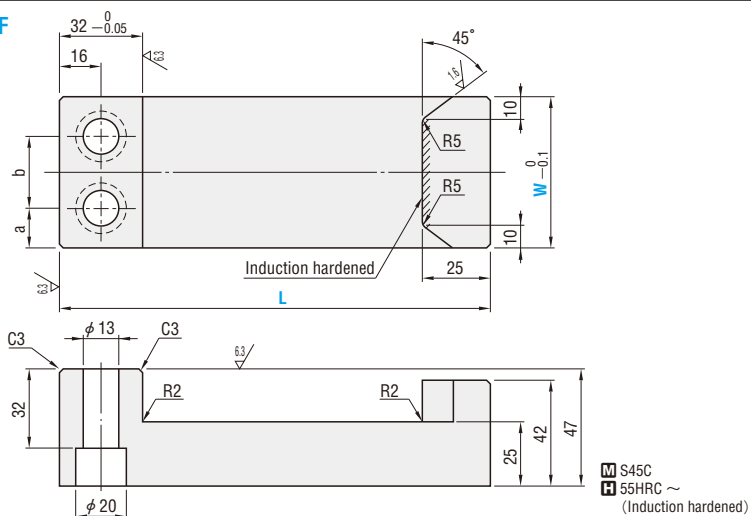
Price

Quotation

CAM POSITIVE RETURN FOLLOWERS / CAM POSITIVE RETURN BLOCKS

RoHS

CKF



a	b	Catalog No.	W	L	Base unit price
					1 ~ 19 pieces
15	30	CKF	60	171	Quotation
				191	
20	40		80	171	
				191	



Order

Catalog No.

CKF

W

60

	L
--	---

171



Days to Ship

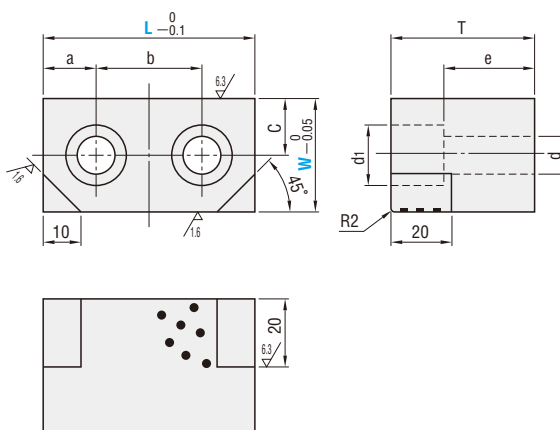
Quotation

**Price**

Quotation

RoHS

CKB



M Copper alloy
Special solid lubricant (embedded)

a	b	c	d	d ₁	e	T	Catalog No.	W	L	Base unit price 1 ~ 19 pieces
15	30	11	11	17.5	18	30	CKB	25	60	Quotation
20	40	16	13	20	23	38		32	60	
									80	



Order

Catalog No.

CKB

W

25

7

— 6 —

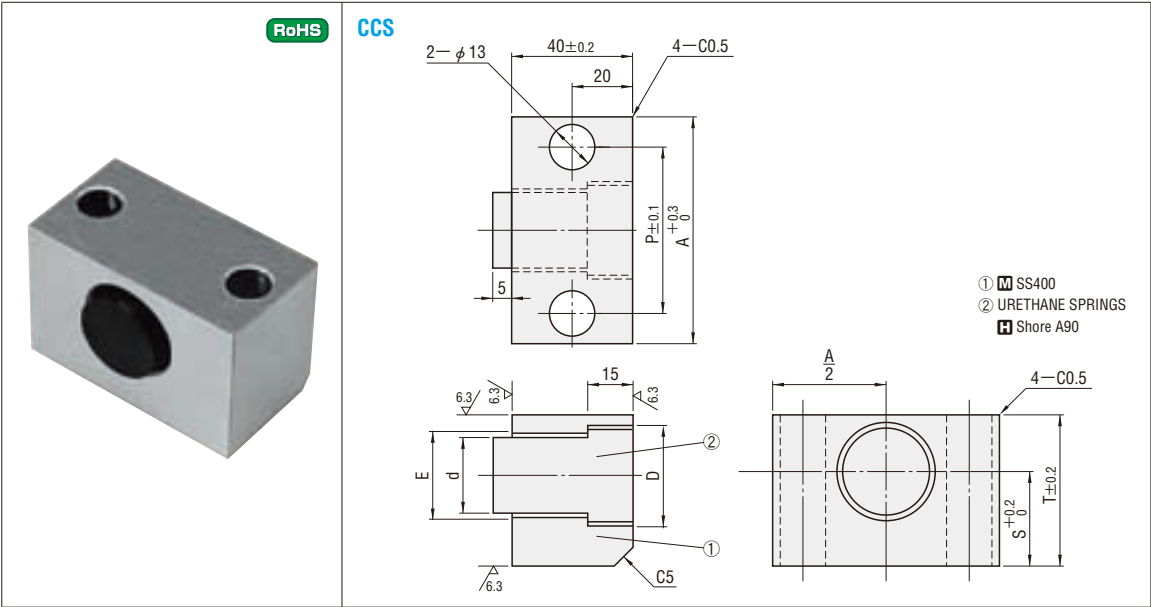
**Days to Ship**

Quotation

**Price**

Quotation

CAM STOPPERS



A	T	D	S	E	d	P	F Max. load N {kgf}	Catalog No.		Base unit price 1 ~ 9 pieces
								Type	No.	
70	60	35	40	30	27	50	5100 {520}	CCS	27	Quotation
80	70	45	45	40	36	60	9610 {980}		36	

•Load {kgf}=Load {N}×0.101972



Order

Catalog No.

CCS 36



Days to Ship

Quotation

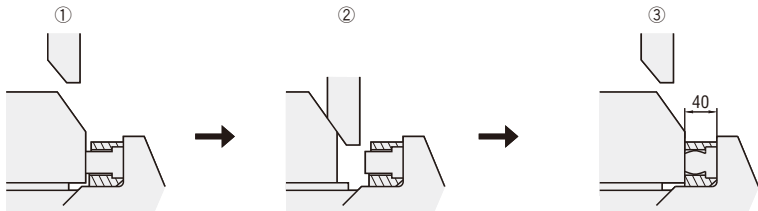


Price

Quotation



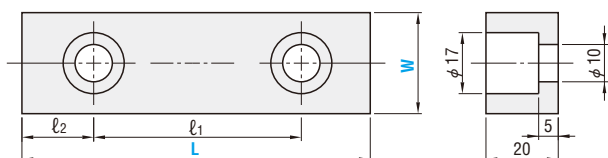
Example



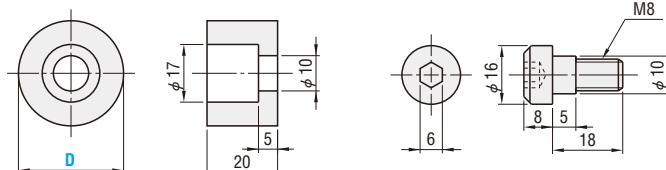
SILENCER URETHANES

RoHS

CCUC (Block type)



CCUR (Round type)



•Special installation bolt

Urethane
 Shore A90
 Special installation bolt

Special installation bolt
 SCM435
 H33 ~ 38HRC

■Block type (with 2 special installation bolts)

ℓ ₁	ℓ ₂	Catalog No.		L	Base unit price 1 ~ 9 pieces
		Type	W		
60	20	CCUC	30	100	
110				150	Quotation
140	30			200	

■Round type (with 1 special installation bolt)

Catalog No.		Base unit price 1 ~ 9 pieces
Type	D	
CCUR	30	Quotation



Order

Catalog No. — L
 CCUC30 — 100



Days to Ship

Quotation

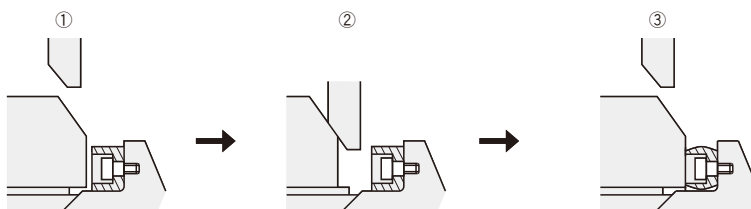


Price

Quotation



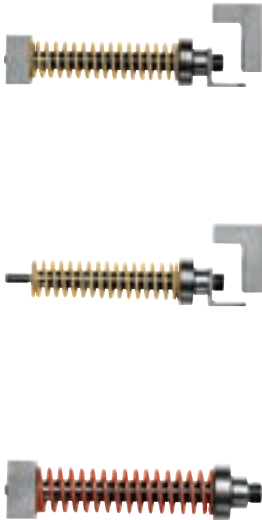
Example



■For other urethane blocks, refer to “C Navigation · C Navigation Guidebook” in the CD edition.

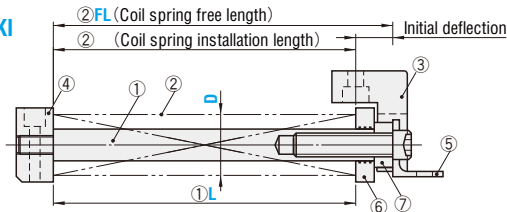
CAM RETURN UNITS

RoHS



① This unit product is delivered in provisionally assembled form.

CUKI



② Coil spring specifications

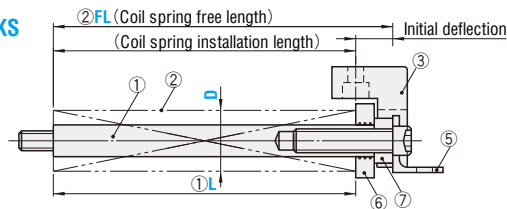
SWF P.975
SWL P.977
SWM P.979
SWH P.981

⑥ Separate disk (CUKSD)/specifications
⑦ Pressure disk (CUKPD) specifications

P.963

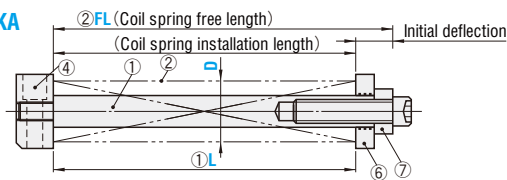
(Spring guide unit)

CUKS

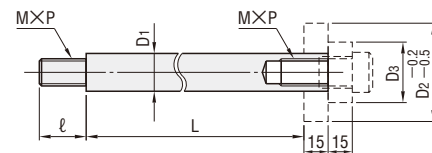


- ① Guide pin
 S45C
 50HRC~ (Induction hardened)
- ② Coil spring
- ③ Slide angle
 SS400
- ④ Fixed plate
 SS400
- ⑤ Support angle
 SS400
- ⑥ Separate disk
 FC250
Special solid lubricant (embedded)
- ⑦ Pressure disk
 SS400

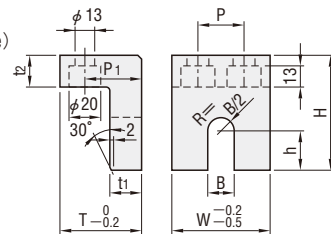
CUKA



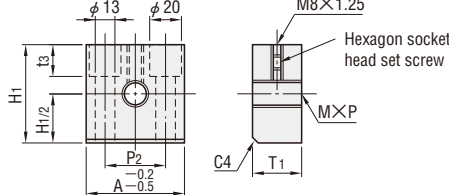
① **CUKGP** (Guide pin : Details P.1054)



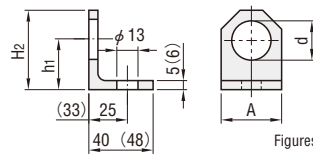
③ **CUKSA**
(Slide angle)



④ **CUKFP** (Fixed plate)



⑤ **CUKFA** (Support angle)



Figures in () are for D=70.

D	①Guide pin					③Slide angle										④Fixed plate					⑤Support angle			
	D ₁	D ₂	D ₃	M×P	ℓ	H	h	W	B	P	T	t ₁	t ₂	P ₁	T ₁	A	P ₂	H ₁	t ₃	A	H ₂	h ₁	d	
40	19	50	28	12×1.75	24	70	25	60	33	30	50	20	20	35	25	55	30	50	15	27	40	25	19	
50	24	60	36	16×2.0	28	85	30	70	41	40	60	25	25	40	32	60	35	60	20	35	48	30	25	
60	29	70	43			95	35	80	48	50		63	28	28		43	35	70	40	70	30	42		56
70	35	80	48	20×2.5	33	97	27	90	54	50	63	28	28	43	35	80	45	80	30	43	65	40	31	

Catalog No.	D	② Type	② FL												①			
			90	100	125	150	175	200	250	300	350	* 400	* 450	* 500	L: 1mm increments			
CUKI CUKS CUKA	40	F (SWF) L (SWL)	68 ~ 90	80 ~ 100	90 ~ 125	105 ~ 150	130 ~ 175	145 ~ 200	195 ~ 250	—	—	—	—	—				
	50				95 ~ 125	110 ~ 150	120 ~ 175	135 ~ 200	185 ~ 250	225 ~ 300	275 ~ 350	325 ~ 400	375 ~ 450	425 ~ 500				
	60				—	—	—	—	—	—	—	—	—	—				
	70	M (SWM) H (SWH)	68 ~ 90	80 ~ 100	90 ~ 125	105 ~ 150	130 ~ 175	145 ~ 200	195 ~ 250	—	—	—	—	—				
	40				95 ~ 125	110 ~ 150	120 ~ 175	135 ~ 200	185 ~ 250	225 ~ 300	275 ~ 350	—	—	—				
	50				—	—	—	—	—	—	—	—	—	—				

* FL 400 and larger are specifications available for SWF only.



Order

Catalog No. **CUKI** D **40** — ②Type **F** — ②FL **100** — L **L85**



Days to Ship

Quotation

Price

Quotation

③ Slide angle

Coil spring outer diameter D	Catalog No.		Base unit price 1 ~ 9 pieces
	Type	No.	
40	CUKSA	40	Quotation
50		50	
60		60	
70		70	

④ Fixed plate

Coil spring outer diameter D	Catalog No.		Base unit price 1 ~ 9 pieces
	Type	No.	
40	CUKFP	40	Quotation
50		50	
60		60	
70		70	

⑤ Support angle

Coil spring outer diameter D	Catalog No.		Base unit price 1 ~ 9 pieces
	Type	No.	
40	CUKFA	40	Quotation
50		50	
60		60	
70		70	



Order

Catalog No.
CUKSA 40



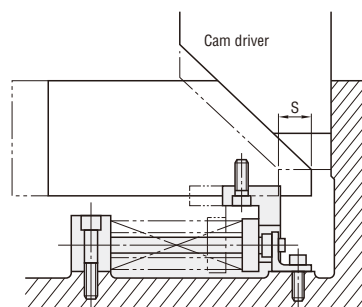
Example



Days to Ship

Quotation

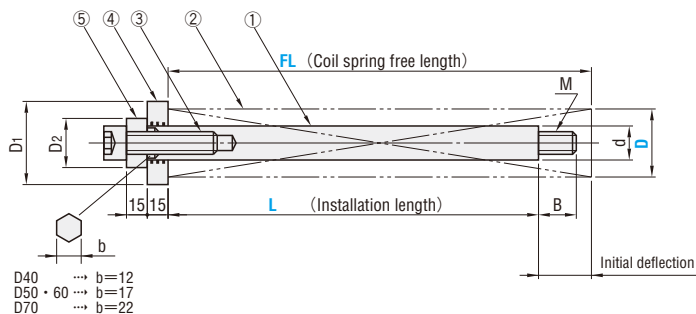
Price

Quotation

SPRING GUIDE UNITS

RoHS

CUK



D40 → b=12
D50・60 → b=17
D70 → b=22

When using for the purpose of cam return, also refer to P.961.

- ① Guide pin M S45C
H 50HRC (Induction hardened surface)
- ② Coil spring
- ③ Hexagon socket head cap screws (D40: M12 D50・60: M16 D70: M20)
- ④ Separate disk M FC250 Special solid lubricant (embedded)
- ⑤ Pressure disk M SS400

d	D1	D2	M×P	B	Catalog No.	② Type	① FL	L: 1mm increments											
19	50	28	12×1.75	24	CUK	SWF	40	68 ~ 90	80 ~ 100	90 ~ 125	105 ~ 150	130 ~ 175	145 ~ 200	195 ~ 250	240 ~ 300	—	—	—	—
24	60	36	16×2.0	28		SWL	50	—	—	—	—	—	—	—	—	—	—	—	—
29	70	43	16×2.0	33		SWH	60	68 ~ 90	80 ~ 100	95 ~ 125	110 ~ 150	120 ~ 175	135 ~ 200	185 ~ 250	225 ~ 300	275 ~ 350	325 ~ 400	375 ~ 450	425 ~ 500
35	80	48	20×2.5	33		(70)	—	—	—	—	—	—	—	—	—	—	—	—	—

D=(70) is a specification available for SWF and SWL only. * FL 400 and larger are specifications available for SWF only.



Order

Catalog No. — Spring type — D — FL — L
CUK — SWM — 60 — 250 — 200



Days to Ship

Quotation

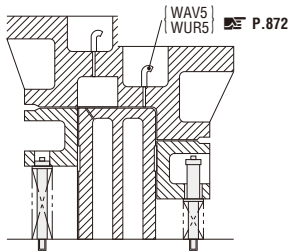


Price

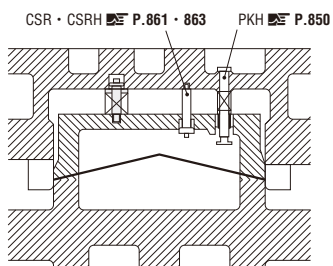
Quotation



Example



(When used as a cushion for drawing)



(When used as a pad pressure source)

① Guide pin

Coil spring outer diameter D	d	b	C	M×P	B	② Coil spring free length (FL)															
						90	100	125	150	175	200	250	300	350	400	450	500				
40	19	12	7	12×1.75	24	55	65	75	85	85	95	95	110	—	—	—	—	—	—		
50	24	17	10	16×2.0	28	60	70	80	90	90	100	100	110	110	110	110	110	110	110		
60	29	17	10	16×2.0	28	60	70	80	90	90	100	100	110	110	110	110	110	110	110		
70	35	22	10	20×2.5	33	60	70	80	90	90	100	100	110	110	110	—	—	—	—		

M S45C
H 50HRC ~
(Induction hardened surface)

④ Separate disk

M FC250
Special solid lubricant
(embedded)

⑤ Pressure disk

M SS400

Components for spring guide units

Coil spring outer diameter D	Catalog No.		L: 1mm increments												Base unit price 1 ~ 9 pieces															
			FL												FL															
	Type	No.	90	100	125	150	175	200	250	300	350	400	450	500	90	100	125	150	175	200	250	300	350	400	450	500				
40	①Guide pin CUKGP	40	68 90	80 100	90 125	105 150	130 175	145 200	195 250	240 300	—	—	—	—																
50		50																												
60		60	68 90	80 100	95 125	110 150	120 175	135 200	185 250	225 300	275 350	325 400	375 450	425 500																
70		70										—	—	—																

Quotation

Coil spring outer diameter D	D1	d	Catalog No.		Base unit price 1 ~ 9 pieces	Coil spring outer diameter D	D2	d1	Catalog No.		Base unit price 1 ~ 9 pieces
			Type	No.					Type	No.	
40	50	19	④ Separate disk CUKSD	40	Quotation	40	28	13	⑤ Pressure disk CUKPD	40	Quotation
50	60	24		50		50	36	17		50	
60	70	29		60		60	43	—		60	
70	80	35		70		70	48	21		70	

Order Catalog No. — Spring FL — L

CUKGP 60 — 250 — 200

CUKSD 60

Days to Ship Quotation

P Price Quotation

Washers for adjusting the height of spring guide units

CUP
CUR

M SS400

D	d	Catalog No.		t	Base unit price 1 ~ 9 pieces	D	d	Catalog No.		t	Base unit price 1 ~ 9 pieces
		Type	No.					Type	No.		
45	20	CUP	40	1 2 5	Quotation	45	12.5	CUR	40	5	Quotation
55	25		50			55	16.5		50		
65	30		60			65	16.5		60		
75	36		70			75	20.5		70		

Order Catalog No. — t

CUR 40 — 5

Days to Ship Quotation

P Price Quotation

