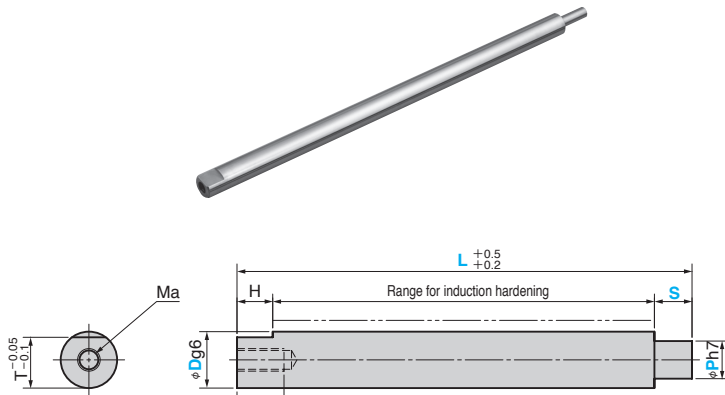


Inclined Pin Standard and Fitting Type

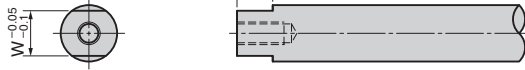
FOR LOOSE CORE

RoHS

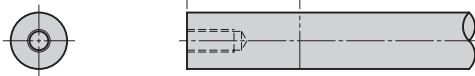
KOP



KOPS (Two surfaces for loosening lock)



KOPN (No machining for loosening lock)



• D Tolerance (g6)

D g6	
8	-0.005
10	-0.014
12	-0.006
16	-0.017
20	
25	-0.007
30	-0.020
35	-0.009
40	-0.025

Material : SUJ2 (I B1 A 52100)
 --- Area to be Induction Hardened (HRC58 or more)
 depth 0.8~2.0mm

T	H	Ma × La	W	E	Catalog No.	D	L Increments of 1mm	S Increments of 1mm	P Selection	G (KOPS only)
7.5	7	M4 × 10	7	20		8	100~600		5 6	
8.5		M5 × 10	7			7 8				
10	8.5	M6 × 15	8	30	KOP	12			8 9	
13		M8 × 20	10			10 12 13				
17	17	M10 × 25	14	40	KOPS	20	100~1000	P ≤ S ≤ (P × 4) L - H - S ≥ 10	12 13 15 16	H ≤ G ≤ E (increments of 1mm)
22			19			50			16 18 20 22	
27	19	M12 × 25	24	60	KOPN	25			20 22 25	
31			27			60			20 22 25 30	
36	20	M16 × 35	32			40			25 30 35	

Order

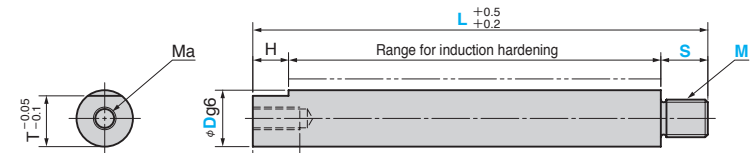
Catalog No.	D	L	S	P	G
KOP	16	300	S30	P12	
KOPS	20	400	S40	P16	G20

Inclined Pin Male Thread Type at End

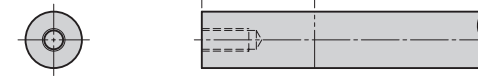
FOR LOOSE CORE

RoHS

KOPA



KOPNA (No machining for loosening lock)



Material : SUJ2 (I B1 A 52100)
 --- Area to be Induction Hardened (HRC58 or more)
 depth 0.8~2.0mm

• Refer to the left page for Dg6 tolerance.

T	H	Ma × La	E	Catalog No.	D	L Increments of 1mm	S Increments of 1mm	M Selection
7.5	7	M4 × 10	20	KOPA KOPNA	8	100~600		4 5 6
8.5		M5 × 10			10			5 6 8
10	8.5	M6 × 15	30	KOPA KOPNA	12			6 8 10
13		M8 × 20			16			8 10 12
17	17	M10 × 25	40	KOPA KOPNA	20	100~1000	M ≤ S ≤ (M × 4) L - H - S ≥ 10	10 12 16
22					18			50
27	19	M12 × 25	60	KOPA KOPNA	30			16 20 24
31					19			60
36	20	M16 × 35			40			20 24 30

Order

Catalog No.	D	L	S	M
KOPA	16	300	S20	M10
KOPNA	20	600	S30	M16

• This applies to KOP, KOPS, KOPN, KOPA and KOPNA. Order method has changed

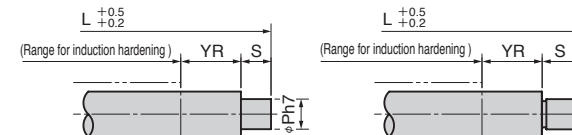
Option

Option Code	Specification
YR	Non-hardening area is provided at the end of the induction hardening. (YR in the figure below)

(Old) KOPA16-300-20-R10
 (New) KOPA16-300-S20-M10

Order

KOPS 20 - 400 - S40 - P16 - G20 - YR



• Length at YR

D	φ8~φ16	φ20	φ25	φ30~
YR	30	40	50	60