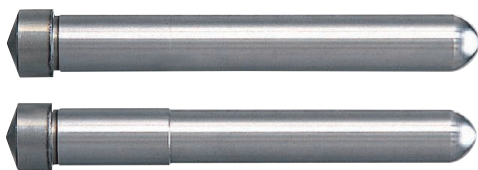


ANGULAR PINS

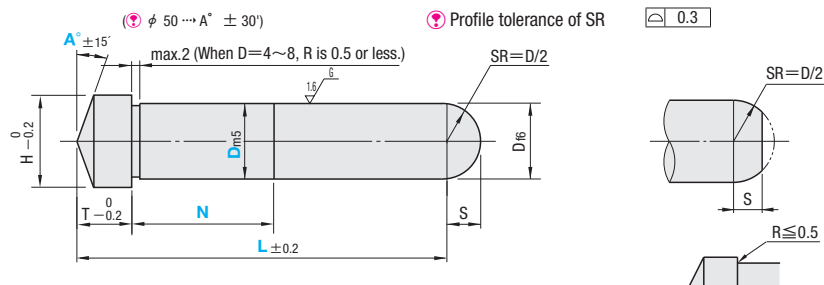
📌 Non JIS material definition is listed on P.1359 - 1360



D	M	H
4~8	SKD11	60~63HRC
10~50	SUJ2	58HRC~ (Induction hardening)

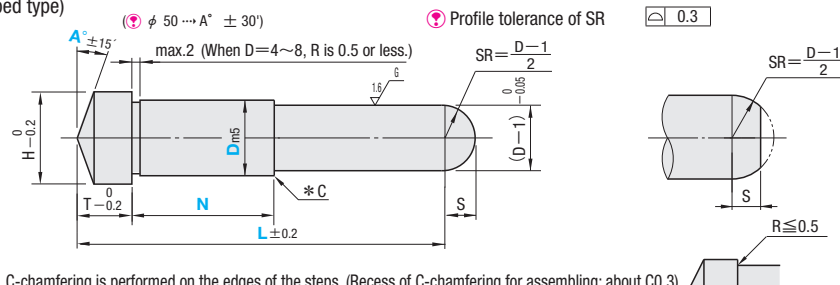
RoHS

AP



! Machining may leave a chuck keyhole on one end of the pin in case of $D=20$ or 25 . Dimensions of the pins with chuck keyholes are values prior to machining of the holes. In case of $D=30$ or more, the both ends may have chuck keyholes.

APS (Stepped type)



*For D4~25, C-chamfering is performed on the edges of the steps. (Recess of C-chamfering for assembling: about C0.3)

⚠ Machining may leave a chuck keyhole on one end of the pin in case of $D=20$ or 25 . Dimensions of the pins with chuck keyholes are values prior to machining of the holes. In case of $D=30$ or more, the both ends may have chuck keyholes.



Order

Part Number	L	N	A
AP25	200.0	N30.0	A15
APS25	200.0	N30.0	A15



Price

Quantity discount rate  P.45

Quantity	1~9	10~19	20~29	30~50
Rate	—	5%	10%	15%

⚠ To be quoted on price & lead time above Max. Q'ty

Days
to Ship

• D4~25

3	Days
---	------

	Express T
	Express A

 P.46
📍 Delivery days depend on subsidiary.  P.45

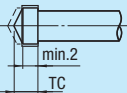
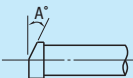
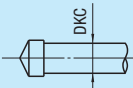
⚠ Delivery days depend on subsidiary. 📄 P.45

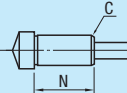
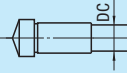
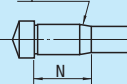


Abstract

 Part Number — **L** — **N** — **A** — (TC · CM · DKC · DC · KAC · TM)
APS 25 — 200.0 — N30.0 — A15 — DC24.5 — DKC — KAC

25 — 200.0 — N30.0 — A15 —

Alterations	Code	Spec.	1Code
	TC	$TC = 0.1 \text{ mm increments}$ (Reduces the head thickness. The full length remains unchanged.) ♡ $TC \geq H/2 \tan A + 2.0$ $TC \text{ min: Fractions are rounded up to the first decimal place.}$ ☒ $TC = 13/2 \tan 18^\circ + 2.0 = 4.112$ $\Rightarrow 4.2$	Quotation
	KAC	Single flat chamfering Changes the head shape from a cone to a single flat cut. ♡ Available when $D \leq 30$	
	DKC	Press-fit section tolerance alteration Changes $D_{m15} \rightarrow D + \frac{0.005}{0}$ ♡ Available when $D \leq 30$ ♡ Available when $N \leq 200$	

Alterations	Code	Spec.	1Code
	CM	Performs C chamfering on the edge of the step. (Recess of C-chamfering for assembling : about C0.3) 🔍 Available for APS when $D \geq 30$ Chamfering is performed as standard for $D \leq 25$.	Quotation
	DC	Changes (D-1) step by designation. $DC = 0.1 \text{ mm}$ increments Tolerance of the step's external diameter: ± 0.05 🔍 $D - 0.1 \geq DC$ $D - 1$ 🔍 When DC is used $SR = \frac{DC}{2}$ 🔍 Available for APS when $D \leq 30$	
	TM	Adds a 30° taper on the edge of step. (Taper for installation) 🔍 Available for APS ⊗ Combination with CM · DC not available	

D	m5	f6 (AP)	T	H	S		Part Number		0.1mm increments		A	U/Price for 1~9	
					AP	APS	Type	D	L	N	1° increments	AP	APS
4	+0.009 +0.004	−0.010 −0.018	5	7	2	1.5	AP	4	15.0~ 70.0 70.1~ 90.0 15.0~ 70.0	2≤N or N=0 (No press-fit section)	0~30		
5				8	2.5	2		5	70.1~ 90.0 90.1~100.0 15.0~ 70.0				
6				9	3	2.5		6	70.1~ 90.0 90.1~110.0 15.0~ 80.0				
8	+0.012 +0.006	−0.013 −0.022	10	11	4	3.5		8	80.1~110.0 110.1~130.0 20.0~110.0				
10				13	5	4.5		10	110.1~160.0 160.1~200.0 20.0~110.0				
12	+0.015 +0.007	−0.016 −0.027	10	15	6	5.5		12	110.1~160.0 160.1~200.0 200.1~250.0				
13				16	6.5	6		13	20.0~110.0 110.1~160.0 160.1~200.0				
15			13	18	7.5	7		15	200.1~250.0 20.0~110.0 110.1~160.0				
16				19	8	7.5		16	160.1~200.0 200.1~250.0 40.0~130.0				
20	+0.017 +0.008	−0.020 −0.033	13	23		9.5		20	130.1~200.0 200.1~300.0 300.1~350.0				
25				28		25		40.0~130.0 130.1~200.0 200.1~300.0					
30			15	35		30		350.1~400.0 60.0~160.0 160.1~220.0					
32				37	10	32		300.1~400.0 400.1~500.0 70.0~160.0					
35	+0.020 +0.009	−0.025 −0.041	15	40				35	160.1~220.0 220.1~300.0 300.1~400.0				
40				45		40		400.1~500.0 100.0~160.0 160.1~220.0					
50			20	55	50	260.0~260.0 260.1~320.0 320.1~400.0							

Quotation

Angular Pins Locking Blocks