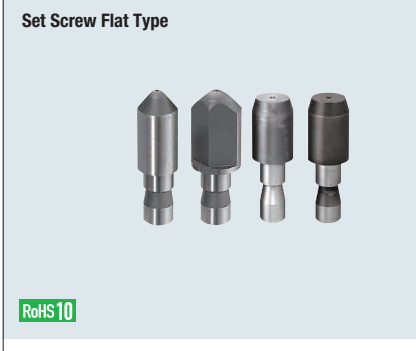


Locating Pin for Jigs & Fixtures

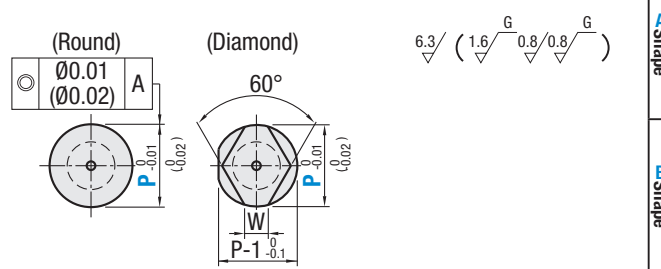
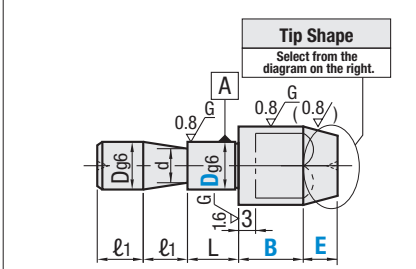
Precision & Pilot Shape Selectable, *continued*



Type	Material	Hardness
SLNTA Round	4137 Alloy Steel	Hardened 35~40 HRC min.
SLNTD Diamond		
TSLNTA Round	SCM415 Alloy Steel (JIS)	Carburized 55 HRC min. (Depth 0.7~0.8) Anti-Carburizing on Threads
TSLNTD Diamond		

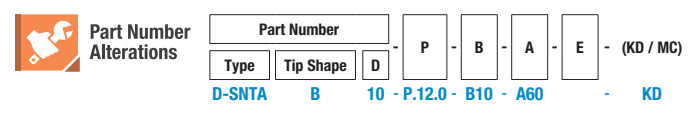
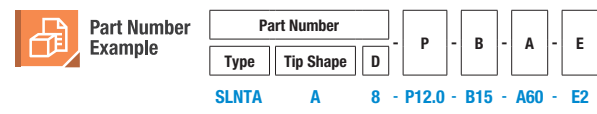
Reference: $\sin 15^\circ = 0.259$ $\tan 15^\circ = 0.267$ $\sin 30^\circ = 0.5$ $\tan 30^\circ = 0.577$ $\sin 45^\circ = 0.707$ $\tan 45^\circ = 1$

Type	Material	Hardness	Surface Treatment
R-SNTA Round	4137 Alloy Steel	35~40 HRC min. (Surface 750 HV min.)	Hard Chrome Plating
R-SNTD Diamond			
D-SNTA Round	D2 Tool Steel Equivalent	55 HRC min. (Surface 3000 HV min.)	Dicoat® Treated
D-SNTD Diamond			



Part Number			P		B		A		E		L		l1		d		R		Applicable Set Screw		W																			
Type	Tip Shape	Dg6	0.1 mm Increment	1 mm Increment	1 mm Increment	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection	1 mm Selection																		
Hardened (Round)	A (Tapered)	6	-0.004 -0.012	8.0~12.0	2~30	*30	1~10	5	8	4	3	M5	3	3	4	3	M5	3	M5	3	3	3																		
		8	-0.005 -0.014	10.0~16.0																			5	4	4	3.5														
10	-0.005 -0.014	12.0~20.0	10	5																			5	4	4	4														
10T	-0.005 -0.014	12.0~20.0	10	5																			5	4	4	4														
(Diamond)	B (Taper R)	12	-0.006 -0.017	14.0~25.0																			5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
		16	-0.007 -0.020	18.0~32.0																			12	10	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
20	-0.007 -0.020	22.0~35.0	17	17	17	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8																		

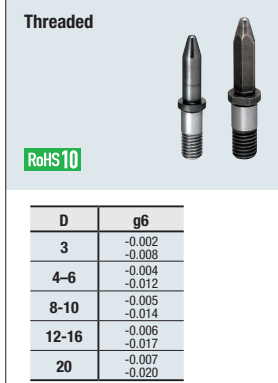
⊗ Angle A *30 is not applicable to Tip Shape B. Select from Precision No Shoulder Type P.1542 ⊙ B Dimension is selectable from 5 mm - for Dicoat® Treated / Diamond Shape.
 ⊙ D16, D20 unavailable for R-SNTA, D-SNTA, R-SNTD, D-SNTD part types.



Alterations	Grooves for Wear Sign	Flat Machining	Thread Diameter	Flat Position	Thread Length
Code	MK	KD	MC	KC	FC
Spec.	Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wears. ⊙ Applicable to Hardened, Carburized and Round Shape Products only ⊙ Applicable when B ≥ 4 Groove Depth: 0.2mm (±0.05mm) Groove Shape: V Groove (90°)	Ordering Code: KD Machining on one side. ⊙ Applicable to Round Shape Type only.	Ordering Code: MC8 Changes the thread diameter. ⊙ D/3 ≤ M < D Mmin3 ⊙ Applicable to Threaded Type only.	Ordering Code: KC Changes the flat position to 90° from the standard position 0°. ⊙ Applicable to Diamond Shape Type only.	Ordering Code: FC15 Changes the thread length. FC=1 mm Increment D6~10: Ms=FC×Mx3 D12, 16: Ms=FC×Mx2.5 D20: Ms=FC×Mx2 ⊙ Applicable to Threaded only. ⊗ Not applicable to Dicoat® and TiCN treatment.

Locating Pins for Jigs & Fixtures

Configurable with Shoulder

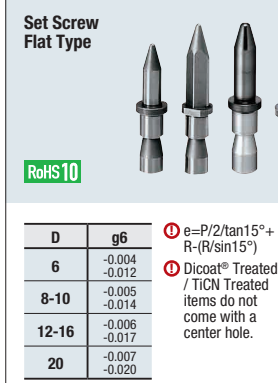


Type	Material	Hardness
FLANA Round	4137 Alloy Steel	Treated Hardness 35~40 HRC min.
FTLANA Round	SCM415 Alloy Steel (JIS)	Carburized Hardness 55 HRC min.
FSLANA Round	304 Stainless Steel	—
FCLANA Round	440C or 420 Stainless Steel	Treated Hardness 50~55 HRC min.

*Carburized: Depth 0.7~0.8/Anti-Carburizing on Thread

Type	Material	Hardness	Surface Treatment
R-FANA Round	4137 Alloy Steel	35~40 HRC (Surface 750 HV min.)	Hard Chrome Plating
R-FAND Diamond			
D-FANA Round	D2 Tool Steel Equivalent	55 HRC min. (Surface 3000 HV min.)	Dicoat® Treated
D-FAND Diamond			

Part Number			0.1 mm Increment		1 mm Increment		0.1 mm Increment		T		ℓ1		H		R		M (Coarse)		W	
Type	D	P	B	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Hardened (Round)	3	3.0~4.0	2.0~16.0	5~10	2.0~10.0	5	6	1	M3	1(2)	5	6	7	8	9	10	11	1.5	M8	4
	4	3.0~5.0	2.0~20.0	5~10																
5	3.0~6.0	2.0~24.0	5~10																	
6	3.0~7.0	2.0~28.0	5~10																	
8	3.0~9.0	2.0~35.0	5~10																	
10	5.0~12.0	3.0~35.0	8~15																	
(Diamond)	12	7.0~13.0	3.0~35.0	10~18	12	13	2	M10	2(3)											
	16	13.0~16.0	5.0~35.0	12~20	15	15	3	M12	4											
20	16.0~20.0	5.0~35.0	15~20	18	19	4	M16	5												
22				20	23		M20													

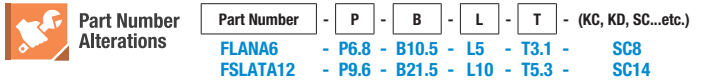
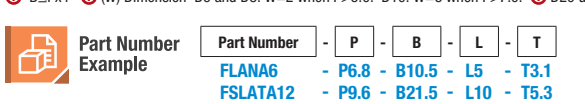


Type	Material	Hardness
FLATA Round	4137 Alloy Steel	Treated Hardness 35~40 HRC min.
FTLATA Round	SCM415 Alloy Steel	Carburized Hardness 55 HRC min.
FSLATA Round	304 Stainless Steel	—
FCLATA Round	440C or 420 Stainless Steel	Treated Hardness 50~55 HRC min.

*Carburized: Depth 0.7 - 0.8/Anti-Carburizing on Thread

Type	Material	Hardness	Surface Treatment
R-FATA Round	4137 Alloy Steel	35~40 HRC min. (Surface 750 HV min.)	Hard Chrome Plating
R-FATD Diamond			
D-FATA Round	D2 Tool Steel Equivalent	55 HRC min. (Surface 3000 HV min.)	Dicoat® Treated
D-FATD Diamond			

Part Number			0.1 mm Increment		1 mm Increment		0.1 mm Increment		T		ℓ1		H		d		R		Applicable Set Screws		W	
Type	D	P	B	L	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
Hardened (Round)	6	3.0~7.0	2.0~28.0	5~10	2.0~10.0	8	9	4	1	M5	1~2	8	11	5	1.5	2	M6	2~3	4	4	4	4
	8	3.0~9.0	2.0~35.0	5~10																		
10	5.0~12.0	3.0~35.0	8~15																			
12	7.0~13.0	3.0~35.0	10~18																			
16	13.0~16.0	5.0~35.0	10~20																			
20	16.0~20.0	5.0~35.0	10~20																			
(Diamond)	19	13	4	M8	5																	
	23	17																				



Alterations	Grooves for Wear Sign	Flat Position	Flat Machining	Wrench Flats	Tip Angle Change	Thread Length	Upper Relief Radius Change
Code	MK	KC	KD	SC	RC	NNC	RTC
Spec.	Machine 4 grooves on B Dimension. The wear and tear of the grooves indicate the degree of wears. ⊙ Applicable to Hardened, Carburized and Round Shape Products only ⊙ Applicable when B ≥ 4 Groove Depth: 0.2mm (±0.06 mm) Groove Shape: V Groove (90°)	Ordering Code: KC Changes the flat position to 90° from the standard position 0°. ⊙ Applicable to Diamond Shape Type only.	Ordering Code: KD Machining on one side. ⊙ H-P ≥ 2 ⊙ Applicable to Round Shape Type only.	Ordering Code: SC10 Adds wrench flats. SC=1 mm Increment SC>D SC>P SC<H-2 ⊙ Applicable to Round Shape Type only.	Ordering Code: RC60 Changes the tip angle. Selection: 60°, 90°, 120°	Ordering Code: NNC Adds a relief at the thread end. ⊙ Not applicable to Set Screw Type. ⊙ For damage prevention, Dicoat® treatment is not applicable.	Ordering Code: RTC1 Changes the relief to the following radius R. Selection: R1 R2 R3 ⊙ RTC ≤ (H-P)/2 ⊙ Applicable when B ≥ 5