


Locating Pins for Jigs & Fixtures

Configurable & No Shoulder

Threaded



RoHS 10

D	g6
3	-0.002 -0.008
4-6	-0.004 -0.012
8, 10	-0.005 -0.014
12, 16	-0.006 -0.017
20	-0.007 -0.020

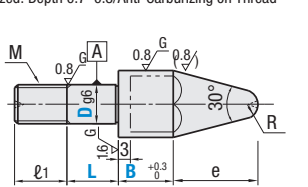
① $e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$
 ② Dicoat® Treated / TiCN Treated items do not come with a center hole.
 ③ Dicoat® Treated items will have the () precision.

Type	Material	Hardness
FLNNA	4137 Alloy Steel	Treated Hardness 35~40 HRC min.
FTLNA	SCM415 Alloy Steel (JIS)	Carburized Hardness 55 HRC min.
FSLNA	304 Stainless Steel	—
FCLNA	440C or 420 Stainless Steel	Treated Hardness 50~55 HRC min.

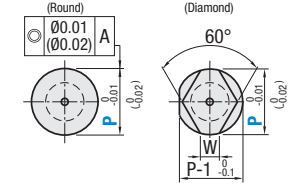
*Carburized: Depth 0.7~0.8/Anti-Carburizing on Thread

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

Reference: $\sin 15^\circ = 0.259$
 $\tan 15^\circ = 0.267$



(Round)




(Diamond)

Part Number		0.1 mm Increment			1 mm Increment	ℓ_1	R	M (Coarse)	W
Type	D	P	B	L					
Hardened (Round) FLNNA	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Carburized (Round) FTLNA	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
304 Stainless Steel (Round) FSLNA	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
440C or 420 Stainless Steel (Round) FCLNA	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Hard Chrome (Round) R-FNNA	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Dicoat® (Round) D-FNNA	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Hardened (Diamond) FLNND	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Carburized (Diamond) FTLND	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
304 Stainless Steel (Diamond) FSLND	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
440C or 420 Stainless Steel (Diamond) FCLND	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Hard Chrome (Diamond) R-FNND	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	
Dicoat® (Diamond) D-FNND	3	4.0-6.0	2.0-16.0	5-10	5	2	M3	1.5	
	4	5.0-8.0	2.0-20.0	5-10	6		M4	2	
	5	6.0-10.0	2.0-24.0	5-10	6		M5	2	
	6	8.0-12.0	2.0-24.0	5-10	6		M6	3	
	8	10.0-16.0	2.0-26.0	5-10	10		M8	3.5	
	10	12.0-20.0	3.0-35.0	8-15	12		M10	4	

① B ≤ Px4 ② For Diamond Shape, B dimension 5.0 or more are applicable. ③ D16, D20 unavailable for R-FNNA, D-FNNA, R-FNND, D-FNND part types. ④ D3, D4, D5 unavailable for D-FNNA, D-FNND part types

Set Screw Flat Type



RoHS 10

D	g6
6	-0.004 -0.012
8, 10	-0.005 -0.014
12, 16	-0.006 -0.017
20	-0.007 -0.020

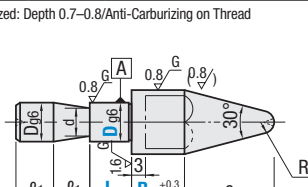
① $e = P/2 \tan 15^\circ + R - (R/\sin 15^\circ)$
 ② Dicoat® Treated / TiCN Treated items do not come with a center hole.
 ③ Dicoat® Treated / TiCN Treated items will have the () precision.

Type	Material	Hardness
FLNTA	4137 Alloy Steel	Treated Hardness 35~40 HRC min.
FTLNTA	SCM415 Alloy Steel	Carburized Hardness 55 HRC min.
FSLNTA	304 Stainless Steel	—
FCLNTA	440C or 420 Stainless Steel	Treated Hardness 50~55 HRC min.

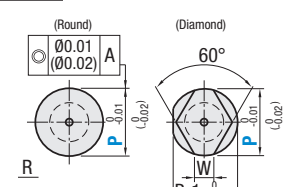
*Carburized: Depth 0.7~0.8/Anti-Carburizing on Thread

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

Reference: $\sin 15^\circ = 0.259$
 $\tan 15^\circ = 0.267$



(Round)



(Diamond)

Part Number		0.1 mm Increment			1 mm Increment	ℓ_1	d	R	Applicable Set Screws	W
Type	D	P	B	L						
Hardened (Round) FLNTA	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
Carburized (Round) FTLNTA	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
304 Stainless Steel (Round) FSLNTA	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
440C or 420 Stainless Steel (Round) FCLNTA	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
Hard Chrome (Round) R-FNTA	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
Dicoat® (Round) D-FNTA	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
Hardened (Diamond) FLNTD	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
Carburized (Diamond) FTLNTD	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					
304 Stainless Steel (Diamond) FSLNTD	6	8.0-12.0	2.0-30.0	5-10	8	4	3	M5	3	
	8	10.0-16.0	2.0-35.0	5-10	8					
	10	12.0-20.0	3.0-35.0	8-15	7					
	12	14.0-25.0	3.0-35.0	10-18	9					
	16	18.0-32.0	5.0-35.0	10-20	13					
	20	22.0-35.0	5.0-35.0	10-20	17					