

# Locating Pins for Fixtures - Standard Grade, Bullet Nose



Features: R shape at insertion guide enables smooth insertion of workpiece.

**Shouldered RoHS**

Type	Retaining Part Shape	Shape	Material	Hardness
HATA		Round	EN 1.7220	Treated Hardness
HATD	N (Threaded) T (Set Screw)	Diamond	Equiv.	35-40HRC
THATA	B (Screw Mounted)	Round	EN 1.7242	Carburized Treated Hardness:
THATD		Diamond	Equiv.	55HRC~ (Depth: 0.7 ~ 0.8) / Anti-carburizing on Threads

Type	Retaining Part Shape	Shape	Material	Hardness	Surface Treatment
D-HATA	N (Threaded)	Round	EN 1.7220	55HRC~ (Surface 3000HV)	Dicoat® Treated
D-HATD	T (Threaded)	Diamond	Equiv.		

$\sqrt[3]{\frac{32}{15}} \sqrt[6]{\frac{6}{1}}$

(Round)

(Diamond)

Type	Retaining Part Shape	Dh7	P		B		L		ℓ	L1	ℓ1	d	Applicable Set Screw	M (Coarse) Screw Mounted	H	R	W		
			0.1mm Increment	1mm Increment	Threaded Selection	Screw Mounted 1mm Increment													
Hardened (Round)	Carburized (Round)	Dicoat (Round)	6	3.0-7.0	5-30	5	8	10	-	6	8	8	4	M5	-	9	1	1(2)	
HATA	THATA	D-HATA	8	3.0-9.0	5-30	5	8	10	12	15	12-20	10	8	5	M5	M4	11	1	1(2)
(Diamond)	(Diamond)	(Diamond)	10	4.5-12.0	5-30	(5)	(8)	10	12	15	15-30	12	10	8	M6	M5	13	1	1-3
THATA	THATD	D-THATD	12	4.5-12.0	5-30	(5)	(8)	10	12	15	15-30	18	5	8	M6	M6	13	1	1-3
HATD	THATD	D-HATD	12	9.0-13.0	5-30	(8)	10	12	15	18	15-30	15	12	10	M8	M5	15	1	4
(Diamond)	(Diamond)	(Diamond)	16	13.0-18.0	5-30	(10)	12	15	18	20	20-40	18	12	10	M8	M8	19	2	5

W Dimension D6, 8, 10, 10T: W=1 when P<5.0 D10, 10T: W=1 when P<5.0, W=2 when 5.0≤P≤7.0, W=3 when P>7.0 L dimension in ( ) is not applicable to Diamond Shape.

D	HATAN	HATAT	HATDN	HATDT	THATAN	THATAT	THATDN	THATDT	D-HATAN	D-HATAT	D-HATDN	D-HATDT	HATAB	HATDB	THATAB	THATDB
6																
8																
10																
10T																
12																
16																

**No Shoulder RoHS**

Type	Retaining Part Shape	Shape	Material	Hardness
HNTAX		Round	EN 1.7220	Treated Hardness
HNTD	N (Threaded) T (Set Screw)	Diamond	Equiv.	35-40HRC
THNTA	B (Screw Mounted)	Round	EN 1.7242	Carburized Hardness
THNTD		Diamond	Equiv.	55HRC~ (Depth: 0.7 ~ 0.8) Anti-carburizing on Tapped Part

Type	Retaining Part Shape	Shape	Material	Hardness	Surface Treatment
D-HNTA	N (Threaded)	Round	EN 1.2379	55HRC ~ (Surface 3000HV)	Dicoat® Process
D-HNTD	T (Set Screw)	Diamond	Equiv.		

$\sqrt[3]{\frac{32}{15}} \sqrt[6]{\frac{6}{1}}$

(Round)

(Diamond)

Type	Retaining Part Shape	Dh7	P		B		L		ℓ	L1	ℓ1	d	Applicable Set Screw	M (Coarse) Screw Mounted	R	W		
			0.1mm Increment	1mm Increment	Threaded Selection	Screw Mounted 1mm Increment												
Hardened (Round)	Carburized (Round)	Dicoat (Round)	6	9.0-12.0	5-30	5	8	10	10-20	6	8	4	M5	-	3	3		
HNTAX	THNTA	D-HNTA	8	11.0-16.0	5-30	5	8	10	12	15	10-20	10	8	5	M4	2	3.5	
(Diamond)	(Diamond)	(Diamond)	10	13.0-20.0	5-30	(5)	(8)	10	12	15	10-30	12	10	7	M6	M5	5	
THNTA	THNTD	D-THNTD	12	15.0-25.0	5-30	(8)	10	12	15	18	10-30	15	5	9	M5	M5	6	
HNTD	THNTD	D-HNTD	16	19.0-32.0	5-30	(10)	12	15	18	20	10-32	18	10	13	M8	M8	3	8
(Diamond)	(Diamond)	(Diamond)	20	23.0-35.0	5-30	(12)	15	18	20	20-40	22	12	17	M10	M10	9	9	

L dimension in ( ) is not applicable to Diamond Shape and Dicoat® treatment.

D	HNTAXN	HNTAXT	HNTDN	HNTDT	THNTAN	THNTAT	THNTDN	THNTDT	D-HNTAN	D-HNTAT	D-HNTDN	D-HNTDT	HNTAXB	HNTDB	THNTAB	THNTDB
6																
8																
10																
10T																
12																
16																
20																

**Ordering Example**

Part Number: **D** - **P** - **B** - **L**

Type: HATA N 8 - P7.8 - B15 - L8  
 HNTAX T 8 - P12.0 - B15

**Alterations**

Part Number: **P** - **B** - **L** - (KC, SC)

HATDB8 - P4.5 - B10 - L12 - KC

Alterations	Wear Groove Alterations	Flat Position	Wrench Flats	Flat Machining	Thread Dia.	Relief	Tip Angle Change
		Shouldered 0°  No Shoulder 0°					
Code	MK	KC	SC	KD	MC	NNC	RC
Spec.	Drill 4 grooves at B Dimension. The wear and tear of the grooves indicate the degree of wear. * Applicable to Hardening, Carburized and Round Shape Products only * The groove starts from the area of R value + 1 mm. Groove Depth: 0.2mm Groove Shape: V Groove	Underlying Coating KC Changes the flat position to 90° from the standard position 0°. * Applicable to Diamond Shape Type only.	Underlying Coating SC Adds wrench flats.	Underlying Coating KD Machining on one side. * Applicable to Round Shape Type only. * H-P:2	Underlying Coating MC8 Changes the thread diameter. * D/3-M-D Mmin3 * Applicable to Threaded only.	Underlying Coating NNC Adds a relief at the thread end. * Not applicable to Set Screw Type. * For damage prevention, Dicoat® treatment is not applicable.	Underlying Coating RC60 Changes the tip angle. * Select 60°, 90°, 120°