



Locating Pins for Jigs Long Type

-Tip Shape Selectable-



CAD Data Folder Name: Locating_Pins
* All prices are in SS and subjected to change without prior notice.

Features: Height direction can be determined by combination with keeping panel.

Shoulder Type RoHS



Type	Nuts	Set Screws	M	H	S
LANAR	LATAR	SCM435	Hardening Hardness 35-40HRC		
TLANAR	TLATAR	SCM415	Carburization Hardening Hardness SSCRC (Depth 0.7-0.8) Anti-carburizing on Thread		



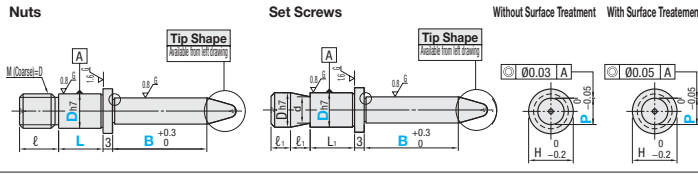
Type	Nuts	Set Screws	M	H	S
R-ANAR	R-ATAR	SCM435	35-40HRC (Surface 750 HV)		Hard Chrome Plating

Tip Shape (The center hole is left.)

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

Standard (Angle 30°) (Tapered R)

Selection (Angle Selection) (Tapered R)



Type	Part Number	Tip Shapes	Dh7	P 0.1mm Increment	B 1mm Increment	L Selection	A Selection	E (Shape A) 1mm Increment	L1	L2	L3	r	d	Applicable Set Screws	Unit Price Qty. 1-4						
															LANAR	LATAR	TLANAR	R-ANAR			
Nuts	Not Specified (Angle 30°) Taper R	6	10	5.0-7.0	20-30	5 8 10	30	6	8	9	4	1	M5	14.60	19.73	41.07					
Set Screws	(Taper) A	10	0	4.5-12.0	20-40	5 8 10 12 15	60	12	10	8	13	7	2	M6	24.07	30.80	52.30				
	(Angle Selection) Taper R	12	0	9.0-13.0	30-50	8 10 12 15 18	90	15	12	10	15	9	3	M8	30.80	37.22	55.99				
		16	-0.018	13.0-16.0		10 12 15 18 20	120	18	12	10	19	13	4		37.22	43.80	59.04				

Conventional RC alteration (change of angle) can be substituted with Tip B Shape.

No Shoulder Type RoHS



Type	Nuts	Set Screws	M	H	S
LNNAR	LNTAR	SCM435	Hardening Hardness 35-40HRC		
TLNNAR	TLNTAR	SCM415	Carburization Hardening Hardness SSCRC (Depth 0.7-0.8) Anti-carburizing on Thread		

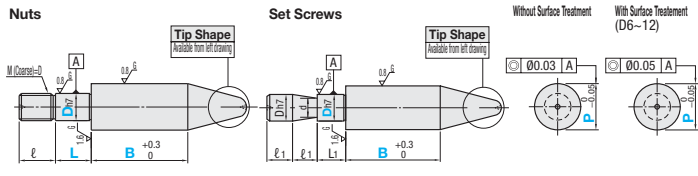
Type	Nuts	Set Screws	M	H	S
R-NNAR	R-NTAR	SCM435	35-40HRC (Surface 750 HV)		Hard Chrome Plating

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Selection (Angle Selection) (Tapered R)



Type	Part Number	Tip Shapes	Dh7	P 0.1mm Increment	B 1mm Increment	L Selection	A Selection	E (Shape A) 1mm Increment	L1	L2	L3	r	d	Applicable Set Screws	Unit Price Qty. 1-4					
															LNNAR	LNTAR	TLNNAR	R-NNAR		
Nuts	Not Specified (Angle 30°) Taper R	6	10	8.0-12.0		5 8 10	30	6	8	4	3	M5	16.04	22.78	45.08					
Set Screws	(Taper) A	10	0	12.0-20.0	30-50	5 8 10 12 15	60	12	10	7	5	M6	24.07	32.25	52.30					
	(Angle Selection) Taper R	12	0	14.0-25.0		8 10 12 15 18	90	15	9	6	6	M8	30.80	39.15	61.61					
		16	-0.018	18.0-32.0		10 12 15 18 20	120	18	12	10	13	8	M8	37.22	46.21	-				
		20	-0.021	22.0-35.0		12 15 18 20		22	12	17				43.48	59.04	-				

Conventional RC alteration (change of angle) can be substituted with Tip B Shape.

Order Example: Part Number - [P] - [B] - [L] - [A] - [E]

Volume Discount Rate	Quantity	Rate
1-4	1-4	0%
5-9	5-9	5%
10-49	10-49	10%
50-99	50-99	15%

Alterations: Part Number - [P] - [B] - [L] - [A] - [E] - (KC, KD, SC, etc.) SC

Hardening: 5 Days

Carburized, Hard Chrome Plated: 7 Days

Express B [SS.02/piece] P.92

*A flat charge of SS21.66 for 3 or more identical pieces.

Alterations	Flat Position	Shoulder	No Shoulder	Wrench Flats	Thread Diameter	Upper Relief Radius
Shoulder	0°	H-P/2	H-1	MC	0.003	RTC
No Shoulder	0°			MC	0.003	RTC
Spec.	Changes the flat position to 90° from the standard position 0°.	Machines one side.	Applicable to Round Shape.	Adds a wrench flat.	Changes the thread diameter: [Selection] Long, Std., [R2] [R3] Precision: [R1] [R2] [R3]	Changes the relief to the following radius R. [Selection] Long, Std., [R2] [R3] Precision: [R1] [R2] [R3]
Code	KC	KD	SC	MC	MC	RTC
Price Adder	3.21	3.21	8.02	3.21	3.21	Free of Charge



Locating Pins for Jigs Bolt Fixing Type

-Tip Shape Selectable-



CAD Data Folder Name: Locating_Pins
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Shoulder Type RoHS



Type	Nuts	Set Screws	M	H	S
LABAN	ELABA	Round	SCM435	Hardening Hardness 35-40HRC	
TLABAN	TELABA	Diamond	SCM435	Hardening Hardness 35-40HRC	
TLABDN	TELABD	Round	SCM415	Carburization Hardening Hardness SSCRC (Depth 0.7-0.8) Anti-carburizing on Female Thread	

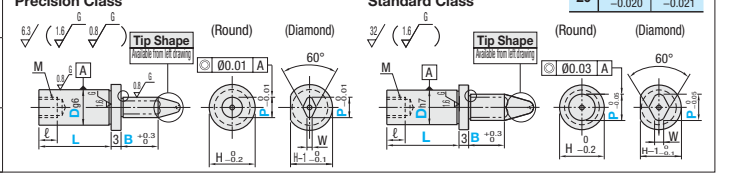


Tip Shape (The center hole is left.)

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Standard (Angle 30°) (Tapered R)

Selection (Angle Selection) (Tapered R)



Type	Part Number	Tip Shapes	D	P 0.1mm Increment	B 0.1mm Increment	L 1mm Increment	A Selection	E (Shape A) 1mm Increment	L1	L2	L3	r	d	Applicable Set Screws	Unit Price Qty. 1-4					
															LABAN	ELABA	TLABAN	TELABA		
Precision Class	Standard Class	Not Specified (Angle 30°) Taper R	6	3.0-7.0	3-16	9-16	30	5	9	1	M3	1	19.25	27.27	24.07	30.48	12.84	16.69	20.38	24.87
		(Taper) A	8	3.0-9.0	10-20	60	1-10	6	11	1.5	M4	(2)	21.18	30.16	26.63	35.46	14.12	18.45	22.46	27.44
		(Angle Selection) Taper R	10T	4.5-12.0	5.0-35.0 (B:Px4)	12-20	60	8	13	2	M5	1-3	28.40	37.22	33.69	42.52	19.41	26.47	28.72	35.46
			12	7.0-13.0		20-40	120	12	19	3	M6	4	31.93	40.75	37.22	46.21	24.87	32.25	34.82	43.48
			16	13.0-16.0		20-40	120	12	19	3	M8	5	37.22	44.44	42.52	49.74	30.16	39.15	40.91	51.50
			20	16.0-20.0		20-40	120	12	19	3	M8	8	44.12	52.62	50.54	58.88	35.62	46.37	48.45	55.51

(W) Dimension W = 2 when D8-P:5.0; W = 1 when D10-D10T; P:5.0; W=3 when P:7.0

Conventional RC alteration (change of angle) can be substituted with Tip B Shape.

No Shoulder Type RoHS



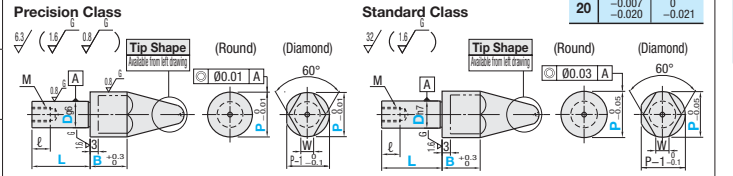
Type	Nuts	Set Screws	M	H	S
LNBAN	ELNBA	Round	SCM435	Hardening Hardness 35-40HRC	
TLNBAN	TELNBA	Round	SCM415	Carburization Hardening Hardness SSCRC (Depth 0.7-0.8) Anti-carburizing on Female Thread	
TLNBND	TELNBD	Diamond	SCM415	Carburization Hardening Hardness SSCRC (Depth 0.7-0.8) Anti-carburizing on Female Thread	

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															LNBAN	ELNBA	TLNBAN	TELNBA	
Precision Class	Standard Class	Not Specified (Angle 30°) Taper R	6	3.0-7.0	3-16	9-16	30	5	3	M3	3	20.22	28.56	25.19	32.09	13.48	17.49	21.50	26.15
		(Taper) A	8	3.0-16.0	10-20	60	1-10	6	4	M4	3.5	21.18	30.16	26.63	35.46	14.12	18.45	22.46	27.44
		(Angle Selection) Taper R	10T	4.5-12.0	5.0-35.0 (B:Px4)	12-20	60	8	5	M5	4	28.40	37.22	33.69	42.52	19.41	26.47	28.72	35.46
			12	7.0-13.0		20-40	120	12	8	M6	6	31.93	40.75	37.22	46.21	24.87	32.25	34.82	43.48
			16	13.0-16.0		20-40	120	12	8	M8	8	37.22	44.44	42.52	49.74	30.16	39.15	40.91	51.50
			20	16.0-20.0		20-40	120	12	8	M8	8	44.12	52.62	50.54	58.88	35.62	46.37	48.45	55.51

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Refer to P.833.

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Spec.	Changes the flat position to 90° from the standard position 0°.	Machines one side.	Applicable to Round Shape.	Adds a wrench flat.	Changes the thread diameter: [Selection] Long, Std., [R2] [R3] Precision: [R1] [R2] [R3]	Changes the relief to the following radius R. [Selection] Long, Std., [R2] [R3] Precision: [R1] [R2] [R3]
Code	KC	KD	SC	MC	MC	RTC
Price Adder	3.21	3.21	8.02	3.21	3.21	Free of Charge