

# Locating Bolts

## Round Head / Round Tip R Type

**Locating Bolts – Round Head**

	Locating Bolts				Accessories (Nut 1 pc.)			
	Round Head	Hex Socket Round Head	Material	Hardness*	Surface Treatment	Material	Surface Treatment	
Fine Thread	STCB	—	1045 Carbon Steel or Equivalent	45 HRC~	Black Oxide	1018 Carbon Steel or Equivalent	Bright Chromate Plating	
	STCBM	STCCM	440C or 420 Stainless Steel	45 HRC~	Electroless Nickel Plating	304 Stainless Steel or Equivalent	Trivalent Chromate	
	SSTCB	SSTCC	1045 Carbon Steel or Equivalent	45 HRC~	—	1018 Carbon Steel or Equivalent	Bright Chromate Plating (*)	
Coarse Thread	STBB	STBCM	1045 Carbon Steel or Equivalent	45 HRC~	Black Oxide	1018 Carbon Steel or Equivalent	Trivalent Chromate	
	STBBS	—	304 Stainless Steel	—	Electroless Nickel Plating	304 Stainless Steel or Equivalent	—	
	SSTBB	SSTBC	440C or 420 Stainless Steel	45 HRC~	—	304 Stainless Steel or Equivalent	—	

RoHS 10 Product Numbers in are not RoHS compliant

\* Stainless Steel Hardened Type (440C or 420 Stainless Steel) may be discolored by hardening.  
 \* Surface treatment for included nuts STBC is Trivalent Chromate. \* Hardness: Hardened Tip

**Nut T Dimension**

M	M x Pitch	H	SR <sub>2</sub>	(r)	(ℓ <sub>1</sub> )	(ℓ <sub>2</sub> )	B <sub>1</sub>	B	(C)	M	T (Coarse)	T <sub>1</sub> (Fine)
4	4 x 0.5	4 x 0.7	2.8	8	0.2	2.1	2.2	2	7	8.1	4	3.2
5	5 x 0.5	5 x 0.8	3.5	10	0.3	2.4	2.8	2.5	8	9.2	5	4
6	6 x 0.75	6 x 1.0	4	10	0.3	3.0	3	3	10	11.5	6	5
8	8 x 0.75	8 x 1.25	5.5	12	0.4	3.7	4	4	13	15.0	8	6.5
10	10 x 1.0	10 x 1.5	7	16	0.5	4.5	5	5	17	19.6	10	8
12	12 x 1.0	12 x 1.75	8	20	0.5	5.2	6	6	19	21.9	12	10
16	16 x 1.5	16 x 2.0	10	25	0.6	6	—	—	24	27.7	16	13

Hardening is not available for 304 Stainless Steel.

### Round Head

Part Number	Type	M	L						Available Types													
			STCB, STBB			STCBM, SSTCB, STBBM, STBBS, SSTBB			STCB, STBB	STCBM, STBBM	STBBS	SSTCB, SSTBB										
Fine	STCB	4	10	15	20	25	30	35	40	20												
	STCBM	5	10	15	20	25	30	35	40	50	20											
	SSTCB	6	15	20	25	30	35	40	50	20	25	30	40	50								
Coarse	STBB	8	15	20	25	30	35	40	50	60	70	80	25	30	40	50	60					
	STBBM	10	30	35	40	50	60	70	80	30	40	50	60	70								
	STBBS	12	30	35	40	50	60	70	80	40	50	60	70	80								
	SSTBB	16	50	60	70	80	—															

### Hex Socket Round Head

Part Number	Type	M	L					
			4	5	6	8	10	12
Fine	STCCM	4	20					
	SSTCC	5	20					
		6	20	25	30	40	50	
Coarse	STBC	8	25	30	40	50	60	
	STBCM	10	30	40	50	60	70	
	SSTBC	12	40	50	60	70	80	

**Locating Bolts – Round Tip R Type**

	Locating Bolts				Accessories (Nut 1 pc.)			
	Round Tip	Material	Hardness*	Surface Treatment	Material	Surface Treatment		
Fine Thread	STCA	1045 Carbon Steel or Equivalent	45 HRC~	Black Oxide	1018 Carbon Steel or Equivalent	Bright Chromate Plating		
	STCAM	440C or 420 Stainless Steel	45 HRC~	Electroless Nickel Plating	304 Stainless Steel or Equivalent	Trivalent Chromate		
	SSTCA	1045 Carbon Steel or Equivalent	45 HRC~	—	1018 Carbon Steel or Equivalent	Bright Chromate Plating		
Coarse Thread	STBA	1045 Carbon Steel or Equivalent	45 HRC~	Black Oxide	1018 Carbon Steel or Equivalent	Trivalent Chromate		
	STBAM	304 Stainless Steel	—	Electroless Nickel Plating	304 Stainless Steel or Equivalent	—		
	SSTBA	440C or 420 Stainless Steel	45 HRC~	—	304 Stainless Steel or Equivalent	—		

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\* Stainless Steel Hardened Type (440C or 420 Stainless Steel) may be discolored by hardening.  
 \* Hardness: Hardened Tip

**Nut T Dimension**

M	M x Pitch	B	(C)	H	(ℓ <sub>1</sub> )	(r)	Z	d	SR <sub>1</sub>	M	T Coarse	T <sub>1</sub> Fine
4	4 x 0.5	4 x 0.7	7	8.1	2.8	2.1	0.2	3	2	3	4	3.2
5	5 x 0.5	5 x 0.8	8	9.2	3.5	2.4	0.3	3	3	3	5	4
6	6 x 0.75	6 x 1.0	10	11.5	4	3.0	0.3	3.5	4.5	4	6	5
8	8 x 0.75	8 x 1.25	13	15.0	5.5	3.7	0.4	5	6	5	8	6.5
10	10 x 1.0	10 x 1.5	17	19.6	7	4.5	0.5	5.5	7	5	10	8
12	12 x 1.0	12 x 1.75	19	21.9	8	5.2	0.5	7	9	8	12	10
16	16 x 1.5	16 x 2.0	24	27.7	10	6	0.6	9	12	10	16	13

Hardening is not available for 304 Stainless Steel.

Part Number	Type	M	L						Available Types													
			STCA, STBA			STCAM, SSTCA, STBAM, STBAS, SSTBA			STCA, STBA	STCAM, STBAM	STBAS	SSTCA, SSTBA										
Fine	STCA	4	15	20	25	30	35	40	20													
	STCAM	5	15	20	25	30	35	40	50	20												
	SSTCA	6	15	20	25	30	35	40	50	20	25	30	40	50								
Coarse	STBA	8	15	20	25	30	35	40	50	60	70	80	25	30	40	50	60					
	STBAM	10	30	35	40	50	60	70	80	30	40	50	60	70								
	STBAS	12	30	35	40	50	60	70	80	40	50	60	70	80								
	SSTBA	16	50	60	70	80	—															

Part Number Example: STCB6 - 20, STBA10 - 50

# Stopper Bolts / Stopper Screws

**Stopper Bolts**

Stopper Bolts	Type		Material	Hardness	Surface Treatment
	Standard	Hex Socket			
Fine Thread	STRCB	STRCC	4137 Alloy Steel	45-50 HRC	Black Oxide
	STRCN	STRNCC	410 Stainless Steel		Electroless Nickel Plating
	SSTRCB	SSTRCC	4137 Alloy Steel		—
Coarse Thread	STRB	STRC	4137 Alloy Steel	410 Stainless Steel	Black Oxide
	STRN	STRNC	410 Stainless Steel		Electroless Nickel Plating
	SSTRB	SSTRC	410 Stainless Steel		—

Ⓢ Stainless Steel Hardened Type (SSTRCB, SSTRCC, SSTRB and SSTRC) may be discolored by hardening.

**Standard Type** **Hex Socket Type**

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Part Number	Type	M	L 5 mm Increment	M		B	(C)	H	(ℓ)	(r)	ℓ <sub>1</sub>	B <sub>1</sub>	Available Types					
				Coarse Thread	Fine Thread								STRCB STRB	STRCN STRN	SSTRCB SSTRB	STRCC STRC	STRNCC STRNC	SSTRCC SSTRC
Standard Type	Fine	*3	10-30	3 x 0.5	—	5.5	6.4	2	1	0.1	—	—	•	•	•	•	•	•
		4	15-60	4 x 0.7	4 x 0.5	7	8.1	2.8	2.1	0.2	2.2	2	•	•	•	•	•	•
	Coarse	5	15-60	5 x 0.8	5 x 0.5	8	9.2	3.5	2.4	0.2	2.8	2.5	•	•	•	•	•	•
		6	20-60	6 x 1.0	6 x 0.75	10	11.5	4	3	0.3	3	3	•	•	•	•	•	•
		8	25-60	8 x 1.25	8 x 0.75	13	15.0	5.5	3.7	0.4	4	4	•	•	•	•	•	•
		10	30-70	10 x 1.5	10 x 1.0	17	19.6	7	4.5	0.5	5	5	•	•	•	•	•	•
12	35-80	12 x 1.75	12 x 1.0	19	21.9	8	5.2	0.5	6	6	•	•	•	•	•	•		

\*M3 size is available only for STRB and STRN.

Part Number Example: STRB6 - 20

Part Number Alterations: STRB10 - LC41

Alteration	Code	Spec.
	LC	Changes the L dimension in 1 mm increment. Ordering Code: LC22 Lmin < LC < Lmax 1 mm Increment

**Stopper Screws**

Stopper Screws	Type	Material	Hardness	Surface Treatment
Standard	STSCC	4137 Alloy Steel	45-50 HRC	Black Oxide
	STSNCC	410 Stainless Steel		Electroless Nickel Plating
	SSTSCC	420 Stainless Steel		—

Ⓢ Stainless Steel Hardened Type (SSTSCC) may be discolored by hardening.

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Part Number	Type	M	L						M x Pitch Fine	B <sub>1</sub>	ℓ	(d)
			4	5	6	8	10	12				
STSCC STSNCC SSTSCC	Fine	4	20	25	30	35	40	4 x 0.5	2	2.5	2.5	
		5	20	25	30	35	40	5 x 0.5	2.5	3	3.5	
	Coarse	6	30	35	40	45	50	60	6 x 0.75	3	3.5	4
		8	30	35	40	45	50	60	8 x 0.75	4	5	4.5
		10	40	45	50	60	70	10 x 1.0	5	6	7	
		12	40	45	50	60	70	80	12 x 1.0	6	8	8.5

Part Number Example: STSCC10 - 60