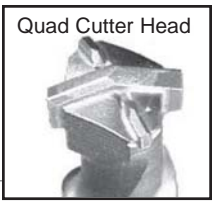




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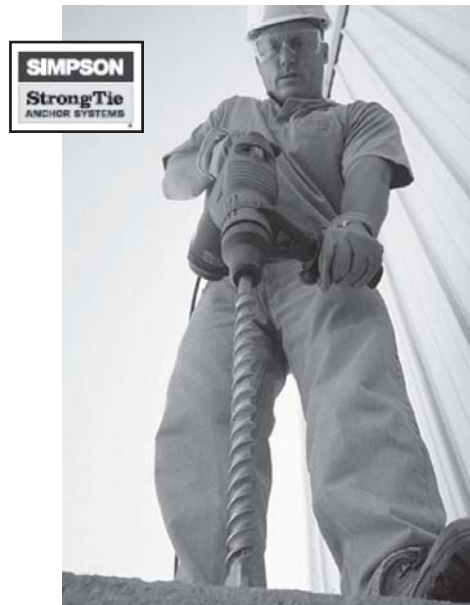
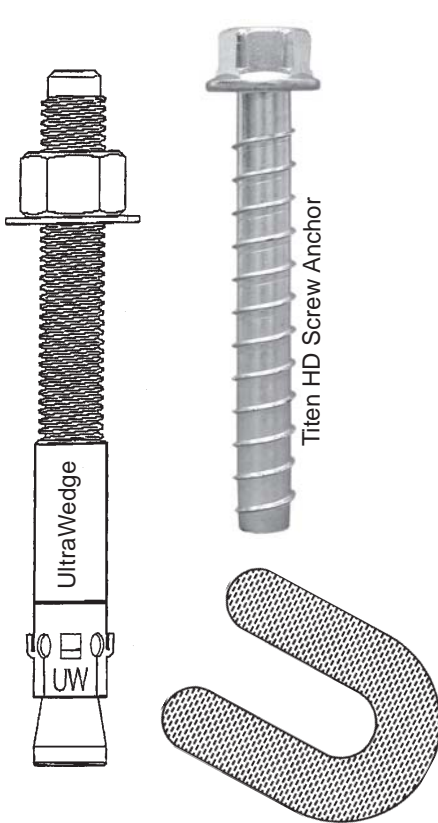


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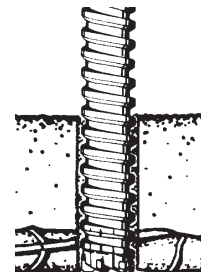
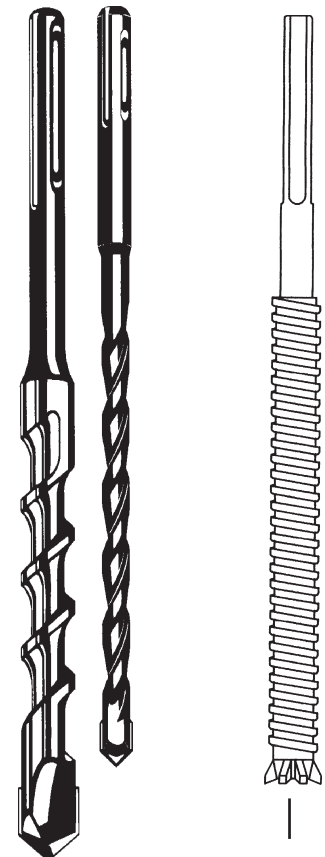
Oct. 2009

Wedge Anchors • Shims • Rotary Hammer Carbide Bits • Rebar Cutters  
 Screw Anchors • Shims • Rotary Hammer Carbide Bits • Rebar Cutters  
**Concrete and Masonry Installation Supplies**  
 Wedge Anchors • Shims • Rotary Hammer Carbide Bits • Rebar Cutters  
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Please tell SVI what else YOU USE that belongs in this book.

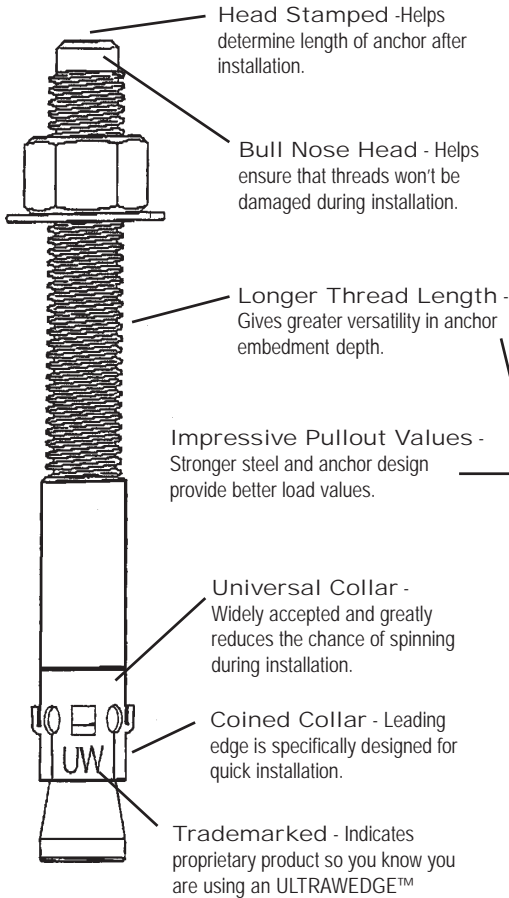
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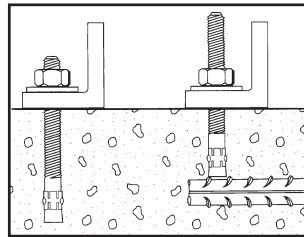


**Wedge Anchors • The choices are yours!**

**ULTRAWEDGE™ Wedge Anchor for concrete and masonry**



This Wedge Anchor is used for heavy-duty fastening applications where high pullout values are required. The anchor and the hole diameter are the same, simplifying anchor installation. The advanced design of the collar, with three protruding prongs to grip the interior of the hole, reduces the likelihood of the anchor "spinning" during installation. In addition the hole depth is not critical, as the wedge is non-bottom bearing, although the hole must be at least as deep as its minimum embedment depth.



ICC-ES Approved (formerly ICBO) Report #ER-6083

Meets GSA Spec, FF-S-325 Group II, Type 4, Class 1.

SVI#	Dia.	Length	Min. Embedment	Thread Length	Box/Cn Qty	Weight Per 100
BH-7074-75	1/4"	1-3/4"	1-1/8"	7/8"	100/1000	3.32
BH-7074-76	1/4"	2-1/4"	1-1/8"	1-3/8"	100/1000	3.92
BH-7074-77	1/4"	3-1/4"	1-1/8"	2"	100/1000	5.20
BH-7074-78	3/8"	2-1/4"	1-1/2"	1"	100/600	8.22
BH-7074-79	3/8"	2-3/4"	1-1/2"	1-1/2"	100/500	10.50
BH-7074-80	3/8"	3"	1-1/2"	1-13/16"	100/500	11.36
BH-7074-81	3/8"	3-3/4"	1-1/2"	2-1/2"	100/500	13.36
BH-7074-82	3/8"	5"	1-1/2"	2-13/16"	50/300	16.84
BH-7074-83	3/8"	6-1/2"	1-1/2"	4"	50/300	22.36
BH-7074-84	1/2"	2-3/4"	2-1/4"	1-5/16"	50/250	20.00
BH-7074-85	1/2"	3-3/4"	2-1/4"	2-5/16"	50/250	26.12
BH-7074-86	1/2"	4-1/4"	2-1/4"	2-13/16"	25/200	28.48
BH-7074-87	1/2"	5-1/2"	2-1/4"	3-1/4"	25/150	32.48
BH-7074-88	1/2"	7"	2-1/4"	4"	25/125	43.52
BH-7074-89	1/2"	8-1/2"	2-1/4"	4"	25/100	53.44
BH-7074-90	1/2"	10"	2-1/4"	4"	25/100	58.24
BH-7074-91	1/2"	12"	2-1/4"	4"	25/100	69.58
BH-7074-92	5/8"	3-1/2"	2-3/4"	1-13/16"	25/125	41.60
BH-7074-93	5/8"	4-1/2"	2-3/4"	2-7/8"	25/125	47.04
BH-7074-94	5/8"	5"	2-3/4"	3-15/16"	25/125	56.58
BH-7074-95	5/8"	6"	2-3/4"	4"	25/100	57.84
BH-7074-96	5/8"	7"	2-3/4"	4"	25/100	72.40
BH-7074-97	5/8"	8-1/2"	2-3/4"	4"	25/100	83.84
BH-7074-98	5/8"	10"	2-3/4"	4"	10/40	96.60
BH-7074-99	5/8"	12"	2-3/4"	4"	10/40	102.97
BH-7075-01	3/4"	4-1/4"	3-1/4"	2-3/8"	20/100	65.20
BH-7075-02	3/4"	4-3/4"	3-1/4"	2-13/16"	20/80	71.70
BH-7075-03	3/4"	5-1/2"	3-1/4"	3-1/2"	20/80	78.40
BH-7075-04	3/4"	6-1/4"	3-1/4"	4"	10/60	90.60
BH-7075-05	3/4"	7"	3-1/4"	4"	10/50	98.00
BH-7075-06	3/4"	8-1/2"	3-1/4"	4"	10/50	118.00
BH-7075-07	3/4"	10"	3-1/4"	4"	10/40	138.80
BH-7075-08	3/4"	12"	3-1/4"	4"	10/40	169.20
BH-7075-09	7/8"	6"	3-7/8"	3-1/4"	5/50	126.40
BH-7075-10	7/8"	8"	3-7/8"	3-1/4"	5/25	160.80
BH-7075-11	7/8"	10"	3-7/8"	4"	5/20	197.20
BH-7075-12	1"	6"	4-1/2"	3-1/4"	5/30	170.80
BH-7075-13	1"	9"	4-1/2"	3-1/4"	5/20	240.00
BH-7075-14	1"	12"	4-1/2"	4"	5/20	288.00
BH-7075-15	1"	15"	4-1/2"	4"	5/20	366.40

Thread length is measured from top of anchor including Bull Nose head.

Wedge Anchor	Test	Results		
		Anchor Size	Embedment Depth	Embedment Depth
1/4"	1-1/8"	1-1/4"	1,417	1,452
		1-15/16"	2,269	1,452
		2-3/4"	3,120	1,452
3/8"	1-1/2"	1-7/8"	2,335	4,808
		3-1/4"	3,394	4,808
		5"	4,452	4,808
1/2"	2-1/4"	2-1/2"	3,876	8,168
		4-1/8"	5,208	8,168
		6"	6,539	8,168
5/8"	2-3/4"	3-1/8"	5,429	11,529
		4-7/8"	7,808	11,529
		7"	10,187	11,529
3/4"	3-1/4"	3-3/4"	8,812	13,224
		5-5/8"	11,874	13,224
		8"	14,935	13,224
7/8"	3-7/8"	4-3/8"	12,044	14,912
		6-5/16"	15,796	14,912
		8-3/4"	19,548	14,912
1"	4-1/2"	5"	14,566	16,597
		7-1/4"	22,651	16,597
		10"	30,735	16,597

Wedge anchor part numbers listed above are for zinc plated carbon steel. If you require alternate materials add the following suffix to the part number:

- Mechanically Galvanized "MG"
- 303 Stainless Steel "303"
- 316 Stainless Steel "316"

Note: Some sizes are not offered in alternate materials. For exact alternate material availability consult SVI.

Tests were independently performed in accordance with ASTM E488 and ICBO AC58. A safety factor of 4:1 or 25% is generally accepted as a safe working load. Reference should be made to applicable codes for the specific working ratio. Some test values are interpolations or extrapolations.



**Wedge Anchors • The choices are yours!**

**STRONG-BOLT™ Wedge Anchor for cracked concrete**

The Strong-Bolt™ is a wedge anchor specifically designed for optimum performance in cracked concrete; a new requirement that the 2003 IBC placed on post installed anchors. Rigorously tested according to the newest industry-wide criteria, the Strong-Bolt is proven to offer increased reliability in the most adverse conditions, including proper functioning in cracked concrete under static and seismic loading. The proprietary tri-segmented clip has dual undercutting embossments on each segment which enable secondary or follow-up expansion if a crack forms and intersects the anchor location. This significantly increases the ability of the Strong-Bolt to carry the load if the hole opened slightly due to a crack. The Strong-Bolt sets like a standard wedge anchor.



SVI#	Dia.	Length	Thread Length	Box/Ctn Qty
BH-7075-45	1/2"	3-3/4"	2-5/16"	25/125
BH-7075-46	1/2"	4-1/4"	2-13/16"	25/100
BH-7075-47	1/2"	5-1/2"	4-1/16"	25/100
BH-7075-48	1/2"	7"	5-9/16"	25/100
BH-7075-49	1/2"	8-1/2"	6"	25/50
BH-7075-50	1/2"	10"	6"	25/50
BH-7075-51	5/8"	4-1/2"	2-7/8"	20/80
BH-7075-52	5/8"	5"	3-3/8"	20/80
BH-7075-53	5/8"	6"	4-3/8"	20/80
BH-7075-54	5/8"	7"	5-3/8"	20/80
BH-7075-55	5/8"	8-1/2"	6"	20/40
BH-7075-56	5/8"	10"	6"	10/20
BH-7075-58	3/4"	5-1/2"	3-5/8"	10/40
BH-7075-59	3/4"	6-1/4"	4-3/8"	10/40
BH-7075-60	3/4"	7"	5-1/8"	10/40
BH-7075-61	3/4"	8-1/2"	6"	10/20
BH-7075-62	3/4"	10"	6"	10/20



**Features:**

**Tri-segmented clip:** Each segment is able to adjust independently increasing follow-up expansion should the hole increase in size as a result of a crack.

**Dual embossments on each clip segment:** Allows the clip to undercut into the concrete increasing follow-up expansion should a crack occur.

**316 stainless steel clip:** In addition to superior corrosion resistance, a stainless steel clip offers better "memory". The memory contributes to the anchor's performance should the hole size increase due to a crack.

**Installs like a standard wedge anchor:** No complicated installation procedure. No need for special bits or installation tools.

**Material:** Carbon steel stud with 316 stainless steel clip.

**Finish:** Zinc plated

**Test Criteria:** The Strong-Bolt has been tested in accordance with the ICC-ES Acceptance Criteria for Mechanical Anchors in Concrete Elements (AC193) and ACI 355.2 for the following:

- Static tension and shear loading in cracked and uncracked concrete
- Seismic and wind loading in cracked and uncracked concrete
- Performance in cracked concrete



**Installation:** Do not EVER use an impact wrench to set or tighten the Strong-Bolt or any wedge style anchor.

**Application:** Interior environment where low levels of moisture and corrosive chemicals are present.

Wedge Anchor		Data					
		f'c = 2,500 psi					
Anchor Size	Embedment Depth	Critical Edge Distance	Minimum Edge Distance	Minimum Concrete Thickness	Tension Resistance of Steel	Steel Strength in Shear	Shear Resistance Seismic Loads
1/2"	2-3/4"	9"	4"	4-1/2"	13,500 lbs.	6,560 lbs.	6,560 lbs.
	3-7/8"	7-7/8"		6"			
	5"	6-3/4"		6-3/4"			
5/8"	3-3/8"	11"	5"	5-1/2"	20,875 lbs.	10,475 lbs.	8,380 lbs.
	5-1/8"	9-5/8"		7-7/8"			9,715 lbs.
	6-1/8"	8-1/4"		8-1/4"			10,475 lbs.
3/4"	4-1/8"	13-1/2"	6"	6-3/4"	34,125 lbs.	19,305 lbs.	15,445 lbs.
	5-3/4"	11-3/4"		8-3/4"			17,305 lbs.
	7-1/2"	10-1/8"		10-1/8"			19,305 lbs.

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**Screw Anchors • Faster, Stronger, Neater!**

**TITEN HD™ Screw Anchor for concrete and masonry**



The Titen HD is a patented, high-strength screw anchor for concrete and masonry. The self-undercutting, non-expansion characteristics of the Titen HD makes it the ideal anchor for structural applications, even at minimum edge distances and under reduced spacing conditions. The proprietary cutting teeth enable the Titen HD to be installed in one eighth of the time when compared to traditional expansion anchors, and at significantly reduced installation torques. The anchor can be installed with a standard ANSI tolerance drill bit and is removable. **Recommended for permanent dry, interior noncorrosive environments or temporary outdoor applications. Contact SVI for more information.**

**Performance Features:**

Higher load capacity and vibration resistance: Threads along the length of the anchor undercut the concrete and efficiently transfer the load to the base material.

Specialized Heat Treating Process: Creates superior surface hardness at the tip to facilitate cutting, while at the same time not compromising ductility within the anchor body.

Less spacing and edge distance required: The anchor does not exert expansion forces on the base material.

Easy post-installation inspection: The head is stamped with the Simpson "no-equal" sign and the anchor length in inches.

**Installation Features:**

No special drill bit needed: Designed to install using standard sized ANSI tolerance drill bits.

Installs with 50% less torque: Testing shows that when compared to competitors, the Titen HD requires 50% less torque to be installed in concrete.

Less installation time: No secondary setting or torquing is required.

Hex-washer head: Requires no separate washer and provides a clean installed appearance.

Removable: Ideal for temporary anchoring (e.g. formwork, bracing) or applications where fixtures or equipment may someday need to be moved. Re-use of the anchor to achieve listed load values is not recommended. See reinstallation note on next page.

Material: Carbon steel, heat treated.

Finish: Zinc plated or mechanically galvanized.

Codes: ICC-ES ESR-1056; City of L.A. RR25560; Florida FL 2304.2; Factory Mutal 3017082; "D" dia. Meadow-Burke approved for tilt-up wall bracing.

Test Criteria: The Titen HD anchor has been tested in accordance with ICC-ES's Acceptance Criteria for Predrilled Fasteners (Screw Anchors) in Concrete or Masonry (AC106) ICC report ESR-1056 recognizes the Titen HD for the following:

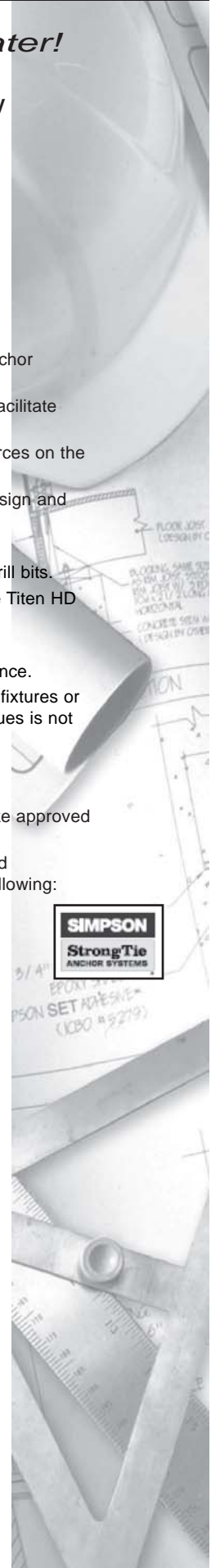
- Static tension and shear loading.
- Critical and minimum edge distance and spacing.
- Seismic and wind loading.
- Combination tension and shear loading.



Serrated teeth on the tip of the Titen HD threads facilitate cutting and reduce installation torque.

SVI#	Dia.	Length	Material	Box/Ctn Qty
BH-7075-23-MG	3/8"	5"	Mechanically Galvanized	50/100
BH-7075-24-MG	3/8"	6"	Mechanically Galvanized	50/100
BH-7075-27-MG	1/2"	5"	Mechanically Galvanized	20/80
BH-7075-28-MG	1/2"	6"	Mechanically Galvanized	20/80
BH-7075-29-MG	1/2"	6-1/2"	Mechanically Galvanized	20/40
BH-7075-30-MG	1/2"	8"	Mechanically Galvanized	20/40
BH-7075-32-MG	5/8"	5"	Mechanically Galvanized	10/40
BH-7075-33-MG	5/8"	6"	Mechanically Galvanized	10/40
BH-7075-34-MG	5/8"	6-1/2"	Mechanically Galvanized	10/40
BH-7075-35-MG	5/8"	8"	Mechanically Galvanized	10/20

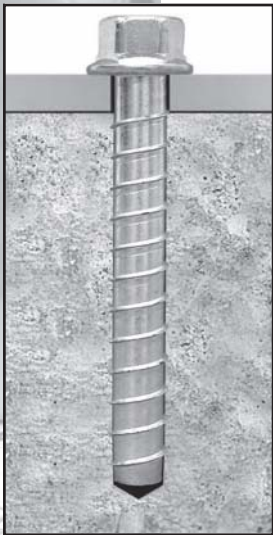
SVI#	Dia.	Length	Material	Box/Ctn Qty
BH-7075-21	3/8"	3"	Zinc Plated	50/200
BH-7075-22	3/8"	4"	Zinc Plated	50/200
BH-7075-23	3/8"	5"	Zinc Plated	50/100
BH-7075-24	3/8"	6"	Zinc Plated	50/100
BH-7075-25	1/2"	3"	Zinc Plated	25/100
BH-7075-26	1/2"	4"	Zinc Plated	20/80
BH-7075-27	1/2"	5"	Zinc Plated	20/80
BH-7075-28	1/2"	6"	Zinc Plated	20/80
BH-7075-29	1/2"	6-1/2"	Zinc Plated	20/40
BH-7075-30	1/2"	8"	Zinc Plated	20/40
BH-7075-30A	1/2"	12"	Zinc Plated	20/40
BH-7075-30B	1/2"	13"	Zinc Plated	20/40
BH-7075-30C	1/2"	14"	Zinc Plated	20/40
BH-7075-30D	1/2"	15"	Zinc Plated	20/40
BH-7075-31	5/8"	4"	Zinc Plated	10/40
BH-7075-32	5/8"	5"	Zinc Plated	10/40
BH-7075-33	5/8"	6"	Zinc Plated	10/40
BH-7075-34	5/8"	6-1/2"	Zinc Plated	10/40
BH-7075-35	5/8"	8"	Zinc Plated	10/20
BH-7075-36	3/4"	4"	Zinc Plated	10/40
BH-7075-37	3/4"	5"	Zinc Plated	5/20
BH-7075-38	3/4"	6"	Zinc Plated	5/20
BH-7075-39	3/4"	6" tilt	Zinc Plated	5/20
BH-7075-40	3/4"	7"	Zinc Plated	5/10





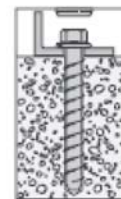
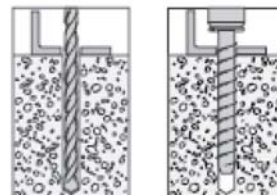
**Screw Anchors • Faster, Stronger, Neater!**

**TITEN HD™ Screw Anchor for concrete and masonry**



Titen HD Anchor		Test Results					
Anchor Size	Embedment Depth	Critical Edge Distance Tension	Critical Edge Distance Shear	f' c = 2,000 psi concrete		f' c = 4,000 psi concrete	
				Ultimate Tension Load (lbs.)	Ultimate Shear Load (lbs.)	Ultimate Tension Load (lbs.)	Ultimate Shear Load (lbs.)
3/8"	2-3/4"	3"	4-1/2"	4,297	6,353	6,204	-
	3-3/4"			7,087	6,377	9,820	-
1/2"	2-3/4"	4"	6"	4,610	6,435	6,580	9,987
	3-5/8"			7,413	9,324	10,742	13,027
	5-3/4"			10,278	11,319	15,640	-
5/8"	2-3/4"	5"	7-1/2"	4,610	7,745	6,580	9,987
	4-1/8"			8,742	8,706	12,286	18,607
	5-3/4"			12,953	12,498	18,680	-
3/4"	2-3/4"	6"	9"	4,674	7,832	6,580	11,460
	4-5/8"			10,340	11,222	17,426	24,680
	5-3/4"			13,765	19,793	18,680	24,680

- Faster to install, just drill and drive.
- No special drill bit required.
- Unlike wedge anchors, the Titen HD can be installed using an air impact.
- ICC Listed
- U.S. Patents 5,674,035 and 6,623,228
- Ideal for professional looking installations.



**Anchor Fatigue Testing:** Tested in accordance with ASTM E-488 for the effects of fatigue. 25% of the average ultimate load was applied to the anchor for 2 million cycles at a frequency of 15 Hz. Subsequent load tests showed no reduction in ultimate tension capacity.

**Vibratory Load Testing:** A 150 lb. concrete block was suspended from a 3/8" diameter anchor embedded at 1-1/2" and vibrated for 12.6 million cycles at a frequency of 30 Hz and an amplitude of 0.0325 inches. Subsequent load test showed no reduction in ultimate tension capacity.



**Caution:** Oversized holes in the base material will reduce or eliminate the mechanical interlock of the threads with the base material and will reduce the anchor's load capacity. Use a Titen HD one time only. Installing the anchor multiple times may result in excessive thread wear and reduce load capacity.

- Drill a hole in the base material using a carbide drill bit the same diameter as the nominal diameter of the anchor to be installed. Drill the hole to the specified embedment depth plus 1/2" to allow the thread tapping dust to settle and blow it clean using compressed air. Overhead installations need not be blown clean. Alternatively, drill the hole deep enough to accommodate embedment depth and dust from drilling and tapping.
- Insert the anchor through the fixture and into the hole.
- Tighten the anchor into the base material until the hex washer head contacts the fixture.

**Suggested Specifications:**

Screw anchors shall have 360-degree contact with the base material and shall not require oversized holes for installation. Fasteners shall be manufactured from carbon steel, and are heat-treated. Anchors shall be zinc plated in accordance with ASTM B633 or mechanically galvanized in accordance with ASTM B695. Anchors are not to be reused after initial installation. Screw anchors shall be Titen HD anchors from SVI International, Inc. Anchors shall be installed per instructions for the Titen HD.



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**SIMPSON Carbide Drill Bits** for concrete and masonry

**Carbide Drill Bits**

Simpson Strong-Tie's carbide tipped bits are premium quality, manufactured to demanding tolerances. All bits have the following features and benefits:

**FEATURES & BENEFITS:**

- Vacuum brazed carbide inserts for longer bit life.
- Optimized fluting for dust removal, speeds drilling time and reduces heat and bit wear.
- Chromium, Nickel, Molybdenum steel alloy body transfers the maximum impact to the cutting head for the greatest drilling efficiency.
- Close diameter tolerance provides consistent hole diameter from bit to bit.

Select Simpson drill bits are available with Quad Head4x design. These high-quality bits with four cutting surfaces drill through concrete faster than conventional multi-tip bits. Quad head carbide tips are also brazed with a specially designed copperalloy. This operation is performed in vacuum brazing ovens to increase toughness.

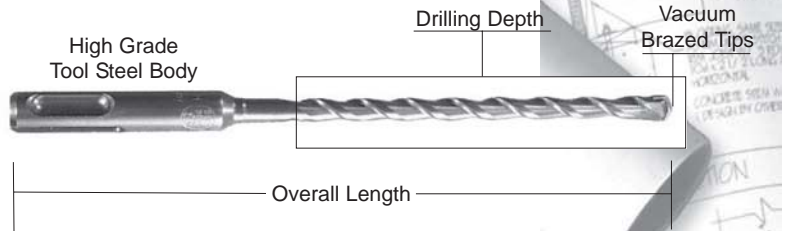


**SAFETY NOTE:** Always wear eye protection when operating a drill or rotohammer.



Quad Head 4X

**Drill Bits conform to ANSI Standard B212.15**



**Drill Bit Tool Selection Chart**

	<b>SDS Plus</b>	<b>SDS Max</b>	<b>Spline</b>
<b>AEG</b>	PHE 16RL, PHE 19RL, PHE 20, PHE 24, PHE 26, PH210		PH 240, PH 260, PH 350, PH 380, PHD 26 PHD 38, PHO 38
<b>B &amp; D</b>	5013, 5014, 5016, 5053K, 5054K, 5056, 5057, BW514, DW557	5097, 5099	5041, 5042, 5043, 5044, 5045, 5049, 5093, 5095, 5096, 5098, 50593, 50595, 50596, 50598
<b>Bosch</b>	11207, 11210, 11211, 11212, 11213, 11215, 11221, 11222, 11224, 11228, 11234, 11236, 11239	11214, 11216, 11227, 11230, 11231, 11233	11202, 11203, 11204, 11205, 11209, 11214, 11219, 11220, 11232, 11233, 11244
<b>Hilti</b>	TE5, TE10, TE12, TE14, TE15, TE17, TE18, TE22, TE24, TE25, TE25S	TE54, TE55, TE 72, TE74, TE75, TE76, TE92, TE94	
<b>Hitachi</b>	DH15VB, DH18, DH22VD, DH24, DH25, VRT-22A, VA16	DH40MA, DH40MB, DH50MB	DH38YE, DH40FA, DH40FB, DH50SB
<b>Kango</b>	200, 285, 327, 422, 426, 430, 439D		430S, 501S637S, 728S, 750S, 950S
<b>Makita</b>	HR1821, HR2000, HR2400, HR2511	HR4000C, HR4500C, HR5001C	HR3851, HR5000
<b>Metabo</b>	6010, 6018, 6020, 6026		RH-32, RH-33, RH-66, RH-99, 1129, 6030
<b>Milwaukee</b>	5303, 5311, 5316, 5320, 5324, 5362, 5366, 5367, 5368, 5369, 5383	5313-20, 5346	5316, 5316-6, 5352, 5343, 5347
<b>Porter Cable</b>	639		
<b>Ramset</b>	425		442, 445, 475
<b>Red Head</b>	555, 715		747-2
<b>Ryobi</b>	ED160, ED211		PK382
<b>Skil</b>	642, 1740, 6372		
<b>Wacker</b>	11/110		

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# SVI International, Inc.



## SIMPSON Carbide Drill Bits for concrete and masonry

### SDS-PLUS® Shank Bits



SVI#	Dia.	Drilling Depth	Overall Length
BH-7063-06-04	3/8"	4"	6"
BH-7063-06-10	3/8"	6"	8"
BH-7063-06-12	3/8"	12"	14"
BH-7063-08-06	1/2"	6"	8"
BH-7063-08-10	1/2"	10"	12"
BH-7063-08-12	1/2"	12"	14"
BH-7063-08-18	1/2"	18"	20"
BH-7063-08-24	1/2"	24"	26"
BH-7063-09-06	9/16"	6"	8"
BH-7063-09-12	9/16"	12"	14"
BH-7063-09-18	9/16"	18"	20"
BH-7063-10-08	5/8"	8"	10"
BH-7063-10-12	5/8"	12"	14"
BH-7063-10-18	5/8"	18"	20"
BH-7063-10-24	5/8"	24"	26"
BH-7063-11-08	11/16"	8"	10"
BH-7063-12-08	3/4"	8"	10"
BH-7063-12-10	3/4"	10"	12"
BH-7063-12-12	3/4"	12"	14"
BH-7063-12-18	3/4"	18"	20"
BH-7063-12-24	3/4"	24"	26"
BH-7063-13-08	13/16"	8"	10"
BH-7063-14-08	7/8"	8"	10"
BH-7063-14-12	7/8"	12"	14"
BH-7063-14-18	7/8"	18"	20"
BH-7063-16-10	1"	10"	12"
BH-7063-16-18	1"	18"	20"

### SDS Plus Carbide Drill Bits

SDS-Plus shank bits use an asymmetrical-parabolic flute for efficient energy transmission and dust removal.

### SDS-PLUS® Quad Head Bits



Quad Head 4X

SVI#	Dia.	Drilling Depth	Overall Length
BH-7063Q-12-08	3/4"	8"	10"
BH-7063Q-12-12	3/4"	12"	14"
BH-7063Q-12-18	3/4"	18"	20"
BH-7063Q-14-08	7/8"	8"	10"
BH-7063Q-14-12	7/8"	12"	14"
BH-7063Q-14-18	7/8"	18"	20"
BH-7063Q-16-10	1"	10"	12"
BH-7063Q-16-18	1"	18"	20"
BH-7063Q-18-10	1-1/8"	10"	12"
BH-7063Q-18-18	1-1/8"	18"	20"

More bit styles on following pages:



#### FAILURES:

Warranty claims will occur on less than 1/2 of 1% of the Simpson carbide-tipped bits used. This estimate is based on experience with many millions of bits in various tools and materials.

The following information has been produced to enable you to improve your ability to fairly determine defects. **BITS ARE WARRANTED FOR REPLACEMENT ONLY AND IN NO CIRCUMSTANCES WILL SIMPSON BE LIABLE FOR MERCHANTABILITY OR LOSS OF SERVICE.**

If the defect is not obvious, please return the bit to our home office in Dublin, CA. Warranty decisions will be made within 48 hours after receiving the returned item(s).

#### FOR BEST BIT WEAR LIFE / PRODUCTION OUTPUT USE THE FOLLOWING GUIDELINES:

- Ensure that the tool holders are in good shape. Deformation of the slots or contours of the bit shanks are a positive indication of tool holder wear. Worn tool holders reduce rotational and energy transfer efficiencies. Repair or replacement is required for efficient hole production.
- The lines of force should be kept as close as possible to 90° to the axis. The tool and bit should be kept directly in line with the hole.
- The bit should not be used as a hammer support when working in walls. Such use reduces energy transfer, slows rotation, accelerates flute wear, and is indicative of poor workmanship. The hammer should be supported at all times when working in walls.
- Only a slight "guiding pressure" is required to assist hammers when working on a horizontal surface. The weight of the hammer itself is almost sufficient for optimum production. Some guiding pressure absorbs recoil and assists in hole production. Obviously, compensation for the pressure which the weight of the hammer produces, must be made when working in ceilings and walls. Caution must be taken not to apply too much pressure as this retards hole production.
- Generally speaking, when a bit becomes very dull, it should be retired; it has done its job. Note: resharpening of drill bits voids the warranty.
- Bit life is generally measured by flute wear. We measure the diameter of the flutes directly behind the tip (area of most wear) and compare that reading to the diameter at the top of the bit (area of least wear). The resultant difference indicates wear life. If a measurement is greater than the standard shown in the chart, the bit is considered to be out of warranty.

#### BIT FAILURES CAN OCCUR IN THE FOLLOWING WAYS:

##### Carbide tip fractures:

Carbide fracture can be caused by two primary reasons: hitting an extremely hard foreign object in the concrete or hitting and staying on reinforcing steel. Steel strikes are readily identifiable. The bit steel will be damaged as well as the tip itself. The operator should cease hole production when the bit stops turning and start a new hole. Bits damaged due to steel strikes are not warranted.



##### Shaft Breakage behind the head:

If the break area shows jagged steel and no notch, the bit has been over-torqued by jamming in the hole. The bit is not covered by warranty.



##### Shank transition area on upper shaft is polished:

This is a positive indication that the bit has been used to produce deeper holes than it should. This means that debris has not been able to clear the hole readily, producing excessive heat buildup, which destroyed the bit-no warranty replacement. (User should purchase longer bits or use a lighter-duty hammer with small diameter bits).



##### Tool holder slots, dimples, or recesses show wear:

This indicates the hammer tool holder should be repaired or replaced-no warranty replacement.



Bit Dia. (in.)	Wear Diff. (in.)	Bit Dia. (in.)	Wear Diff. (in.)	Bit Dia. (in.)	Wear Diff. (in.)	Bit Dia. (in.)	Wear Diff. (in.)
3/16	.008	1/2	.020	7/8	.028	1 1/4	.043
1/4	.008	9/16	.024	1	.032	1 1/2	.048
5/16	.012	5/8	.024	1 1/8	.036	1 3/4	.048
3/8	.016	1 1/16	.024	1 1/4	.039	2	.048
7/16	.020	3/4	.024	-	-	-	-

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**SIMPSON Carbide Drill Bits** for concrete and masonry

**SDS Max® Carbide Drill Bits**



SVI#	Dia.	Drilling Depth	Overall Length
<b>Standard Head</b>			
BH-7064-08-13	1/2"	8"	13"
BH-7064-08-21	1/2"	16"	21"
BH-7064-09-13	9/16"	8"	13"
BH-7064-09-21	9/16"	16"	21"
BH-7064-28-23	1-3/4"	18"	23"
BH-7064-32-23	2"	18"	23"
<b>Quad Head</b>			
BH-7064Q-10-13	5/8"	8"	13"
BH-7064Q-10-21	5/8"	16"	21"
BH-7064Q-10-36	5/8"	31"	36"
BH-7064Q-11-21	11/16"	16"	21"
BH-7064Q-12-13	3/4"	8"	13"
BH-7064Q-12-21	3/4"	16"	21"
BH-7064Q-12-36	3/4"	31"	36"
BH-7064Q-13-21	13/16"	16"	21"
BH-7064Q-14-13	7/8"	8"	13"
BH-7064Q-14-21	7/8"	16"	21"
BH-7064Q-16-13	1"	8"	13"
BH-7064Q-16-21	1"	16"	21"
BH-7064Q-16-36	1"	31"	36"
BH-7064Q-17-23	1-1/16"	18"	23"
BH-7064Q-18-17	1-1/8"	12"	17"
BH-7064Q-18-23	1-1/8"	18"	23"
BH-7064Q-19-23	1-3/16"	18"	23"
BH-7064Q-20-15	1-1/4"	10"	15"
BH-7064Q-20-23	1-1/4"	18"	23"
BH-7064Q-20-36	1-1/4"	31"	36"
BH-7064Q-21-23	1-5/16"	18"	23"
BH-7064Q-22-17	1-3/8"	12"	17"
BH-7064Q-22-23	1-3/8"	18"	23"
BH-7064Q-23-23	1-7/16"	18"	23"
BH-7064Q-24-23	1-1/2"	18"	23"
BH-7064Q-25-23	1-9/16"	18"	23"



Quad Head 4X

Quad Head 4X have four cutting surfaces and drill through concrete faster than conventional multi-tip bits. Quad head bits are also brazed with a specially designed copper alloy. This operation is performed in vacuum brazing ovens to increase toughness.



Installation of a Titen HD™ screw anchor is faster, stronger and neater than using conventional wedge anchors.

**Spline Shank Carbide Drill Bits**



SVI#	Dia.	Drilling Depth	Overall Length
BH-7065-06-08	3/8"	3"	8"
BH-7065-06-11	3/8"	6"	11"
BH-7065-06-13	3/8"	8"	13"
BH-7065-06-16	3/8"	11"	16"
BH-7065-07-13	7/16"	8"	13"
BH-7065-08-11	1/2"	6"	11"
BH-7065-08-13	1/2"	8"	13"
BH-7065-08-16	1/2"	11"	16"
BH-7065-08-23	1/2"	18"	23"
BH-7065-08-27	1/2"	22"	27"
BH-7065-08-36	1/2"	31"	36"
BH-7065-09-11	9/16"	6"	11"
BH-7065-09-13	9/16"	8"	13"
BH-7065-09-16	9/16"	11"	16"
BH-7065-09-23	9/16"	18"	23"
BH-7065-10-10	5/8"	5"	10"
BH-7065-10-13	5/8"	8"	13"
BH-7065-10-16	5/8"	11"	16"
BH-7065-10-23	5/8"	18"	23"
BH-7065-10-27	5/8"	22"	27"
BH-7065-10-36	5/8"	31"	36"
BH-7065-11-13	11/16"	8"	13"
BH-7065-11-16	11/16"	11"	16"
BH-7065-12-11	3/4"	6"	11"
BH-7065-12-13	3/4"	8"	13"
BH-7065-12-16	3/4"	11"	16"
BH-7065-12-23	3/4"	18"	23"
BH-7065-12-27	3/4"	22"	27"
BH-7065-12-36	3/4"	31"	36"
BH-7065-14-16	7/8"	11"	16"
BH-7065-14-23	7/8"	18"	23"
BH-7065-14-36	7/8"	31"	36"
BH-7065-16-16	1"	11"	16"
BH-7065-16-23	1"	18"	23"
BH-7065-16-36	1"	31"	36"
BH-7065-18-16	1-1/8"	11"	16"
BH-7065-18-23	1-1/8"	18"	23"
BH-7065-20-16	1-1/4"	11"	16"
BH-7065-20-23	1-1/4"	18"	23"
BH-7065-20-36	1-1/4"	31"	36"
BH-7065-22-16	1-3/8"	11"	16"
BH-7065-22-23	1-3/8"	18"	23"
BH-7065-24-16	1-1/2"	11"	16"
BH-7065-24-22	1-1/2"	17"	22"
BH-7065-28-22	1-3/4"	17"	22"
BH-7065-32-22	2"	17"	22"

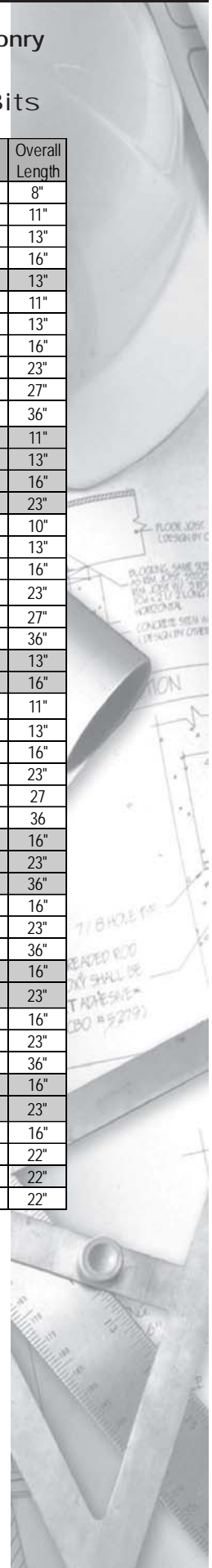


Helical Fluting speeds drilling and keeps bits cool for long life. Bits are mounted in a bit supported head, not just a slot milled through the flute.

SVI is your answer!

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**SIMPSON Carbide Drill Bits** for concrete and masonry

**Spline Shank Quad Head Bits**

SVI#	Dia.	Drilling Depth	Overall Length
BH-7065Q-10-11	5/8"	6"	11"
BH-7065Q-10-16	5/8"	11"	16"
BH-7065Q-10-23	5/8"	18"	23"
BH-7065Q-10-27	5/8"	22"	27"
BH-7065Q-10-36	5/8"	31"	36"
BH-7065Q-11-16	11/16"	11"	16"
BH-7065Q-12-11	3/4"	6"	11"
BH-7065Q-12-16	3/4"	11"	16"
BH-7065Q-12-23	3/4"	18"	23"
BH-7065Q-12-27	3/4"	22"	27"
BH-7065Q-12-36	3/4"	31"	36"
BH-7065Q-14-16	7/8"	11"	16"
BH-7065Q-14-23	7/8"	18"	23"
BH-7065Q-16-16	1"	11"	16"
BH-7065Q-16-23	1"	18"	23"
BH-7065Q-16-36	1"	31"	36"
BH-7065Q-18-16	1-1/8"	11"	16"
BH-7065Q-18-22	1-1/8"	17"	22"
BH-7065Q-20-16	1-1/4"	11"	16"
BH-7065Q-20-22	1-1/4"	17"	22"
BH-7065Q-20-36	1-1/4"	31"	36"
BH-7065Q-22-16	1-3/8"	11"	16"
BH-7065Q-22-22	1-3/8"	17"	22"
BH-7065Q-24-22	1-1/2"	17"	22"
BH-7065Q-28-23	1-3/4"	18"	23"
BH-7065Q-32-23	2"	18"	23"



Quad Head 4X

Quad Head 4X have four cutting surfaces and drill through concrete faster than conventional multi-tip bits. Quad head bits are also brazed with a specially designed copper alloy. This operation is performed in vacuum brazing ovens to increase toughness.

**Straight Shank Drill Bits**

SVI#	Dia.	Drilling Depth	Overall Length
BH-7062-02-03	1/8"	1"	3"
BH-7062-03-03	3/16"	2"	3-1/2"
BH-7062-03-04	3/16"	3"	4-1/2"
BH-7062-03-05	3/16"	4"	5-1/2"
BH-7062-03-06	3/16"	4"	6"
BH-7062-03-08	3/16"	6"	8"
BH-7062-04-04	1/4"	2"	4"
BH-7062-04-06	1/4"	4"	6"
BH-7062-04-12	1/4"	10"	12"
BH-7062-05-04	5/16"	3"	4-1/2"
BH-7062-05-06	5/16"	4"	6"
BH-7062-05-12	5/16"	10"	12"
BH-7062-06-06	3/8"	4"	6"
BH-7062-06-12	3/8"	10"	12"
BH-7062-07-06	7/16"	4"	6"
BH-7062-08-06	1/2"	4"	6"
BH-7062-08-12	1/2"	10"	12"
BH-7062-08-24	1/2"	22"	24"
BH-7062-09-06	9/16"	4"	6"
BH-7062-10-06	5/8"	4"	6"
BH-7062-10-12	5/8"	10"	12"
BH-7062-10-24	5/8"	22"	24"
BH-7062-12-06	3/4"	4"	6-3/8"
BH-7062-12-24	3/4"	10"	12"
BH-7062-14-06	7/8"	4"	6-3/8"
BH-7062-14-12	7/8"	10"	12"
BH-7062-16-06	1"	4"	6-3/8"
BH-7062-16-12	1"	10"	12"



Straight Shank Cutter Head

**'A' Taper Drill Bits**

SVI#	Dia.	Drilling Depth	Overall Length
BH-7065-05	1/2"	7"	9"
BH-7065-06	5/8"	7"	9"
BH-7065-07	3/4"	16"	18"



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**SIMPSON Core Bits** for concrete and masonry

Core Bits: Simpson Strong-Tie Core Bits are made to the same exacting standards as their carbide tipped drill bits. They utilize a centering bit to facilitate accurate drilling in combination hammer/drill mode.



One Piece Core Bit  
Transfers Energy efficiently

**SDS Max Shank  
One piece Core Bits  
with centering bit**


SVI#	Dia.	Length
BH-7066-15-12	1-1/2"	12"
BH-7066-15-22	1-1/2"	22"
BH-7066-20-12	2"	12"
BH-7066-20-22	2"	22"
BH-7066-25-12	2-1/2"	12"
BH-7066-25-22	2-1/2"	22"
BH-7066-30-12	3"	12"
BH-7066-30-22	3"	22"
BH-7066-35-12	3-1/2"	12"
BH-7066-35-22	3-1/2"	22"
BH-7066-40-12	4"	12"
BH-7066-40-22	4"	22"
BH-7066-50-12	5"	12"
BH-7066-50-22	5"	22"
BH-7066-60-22	6"	22"

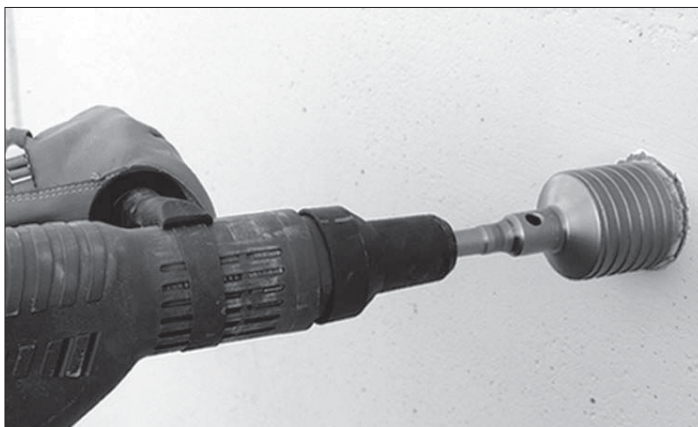
**Spline Shank  
One piece Core Bits  
with centering bit**

SVI#	Dia.	Length
BH-7067-15-12	1-1/2"	12"
BH-7067-15-22	1-1/2"	22"
BH-7067-20-12	2"	12"
BH-7067-20-22	2"	22"
BH-7067-25-12	2-1/2"	12"
BH-7067-25-22	2-1/2"	22"
BH-7067-30-12	3"	12"
BH-7067-30-22	3"	22"
BH-7067-35-12	3-1/2"	12"
BH-7067-35-22	3-1/2"	22"
BH-7067-40-12	4"	12"
BH-7067-40-22	4"	22"
BH-7067-50-12	5"	12"
BH-7067-50-22	5"	22"

NOTE: With 1 piece bits, once coring is begun the centering bit must be removed using the ejector pin. Core bit bodies are 2-11/16" deep.

SVI#	Dia.
BH-7066-01	Center Pilot Bit with Taper Fit (for one piece bit).
BH-7066-02	Ejector Key for Center Bit Removal (for one piece bit).

 **SAFETY NOTE:** Always wear eye protection when operating a drill or rotohammer.



# SVI International, Inc.



## Rebar Cutters & Adapters for concrete and masonry

### Rebar Cutters

When hole placement conflicts with rebar or wire mesh, these bits enable the rebar to be removed so the hole can be drilled to the proper depth. Rebar cutters are separate from shanks. Shanks work with all sizes of rebar cutters.



\* Use only in the rotary only mode of your SDS-Plus, SDS-Max or Spline drive drill.

SVI#	Dia.	Drilling Depth
BH-7061-01	1/2"	12"
BH-7061-02	5/8"	12"
BH-7061-03	3/4"	12"
BH-7061-04	7/8"	12"
BH-7061-05	1"	12"

Note: After drilling through the reinforcement or plate, remove debris from the hole and resume drilling with carbide tipped drill bit.

### Plate Cutters

Similar to Rebar Cutters, these bits are designed for cutting through steel base plates when it is necessary to enlarge the fixture hole. These bits can also be used as rebar cutters. Plate cutters are separate from shanks.



\* Use only in the rotary only mode of your SDS-Plus, SDS-Max or Spline drive drill.

SVI#	Dia.	Drilling Depth
BH-7061-11	1/2"	12"
BH-7061-12	5/8"	12"
BH-7061-13	3/4"	12"
BH-7061-14	7/8"	12"
BH-7061-15	1"	12"

Note: After drilling through the reinforcement or plate, remove debris from the hole and resume drilling with carbide tipped drill bit.

### Shanks for Rebar and Plate Cutters

SVI#	Shank Style	Description
BH-7061-20	Straight	For use in drills with jawed chucks. Use in rotation mode only.
BH-7061-21	SDS-Plus	For use in SDS-Plus style drills. Use in rotation only.
BH-7061-22	SDS-Max	For use in SDS-Max style drills. Shank design allows rotation only.
BH-7061-23	Spline	For use in Spline style drills. Shank design allows rotation only.



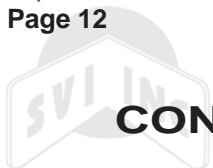
### Drill Bit Shank Adapters



SVI#	Description
BH-7061-25	Adapter for SDS-Max to SDS-Plus
BH-7061-26	Adapter for Spline to SDS-Plus
BH-7061-27	Adapter for SDS-Top to SDS-Plus

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**CONCRETE-TERMITE Rotary Hammer Carbide Bits**

***SDS Plus***



Fits SDS drive rotary hammers.

Speed range 400-100 RPM at up to 4500 blows per minute.

Carbide tip is composed of a powder made up of Tungsten Carbide, Carbon, Cobalt, and other metals which, under heat and pressure are formed into a bit tip.

Made to ANSI standard B212.15-1994.

SVI Part Number	Diameter	Overall Length	Drilling Depth
BH-7072-08-06	1/2"	6"	4"
BH-7072-08-10	1/2"	10"	8"
BH-7072-08-14	1/2"	14"	12"
BH-7072-08-18	1/2"	18"	16"
BH-7072-08-25	1/2"	25"	22"
BH-7072-10-08	5/8"	8"	6"
BH-7072-10-14	5/8"	14"	12"
BH-7072-10-18	5/8"	18"	16"
BH-7072-10-25	5/8"	25"	22"
BH-7072-12-08	3/4"	8"	6"
BH-7072-12-14	3/4"	14"	12"
BH-7072-12-18	3/4"	18"	16"
BH-7072-12-25	3/4"	25"	22"

***SDS Max***



Fits SDS Max drive rotary hammers.

Speed range 400-100 RPM at up to 4500 blows per minute.

Carbide tip is composed of a powder made up of Tungsten Carbide, Carbon, Cobalt, and other metals which, under heat and pressure are formed into a bit tip.

Made to ANSI standard B212.15-1994.

SVI Part Number	Diameter	Overall Length	Drilling Depth
BH-7073-08-14	1/2"	14"	8"
BH-7073-08-18	1/2"	18"	12"
BH-7073-08-22	1/2"	22"	16"
BH-7073-08-28	1/2"	28"	22"
BH-7073-08-42	1/2"	42"	36"
BH-7073-10-14	5/8"	14"	8"
BH-7073-10-18	5/8"	18"	12"
BH-7073-10-22	5/8"	22"	16"
BH-7073-10-28	5/8"	28"	22"
BH-7073-10-42	5/8"	42"	36"
BH-7073-12-14	3/4"	14"	8"
BH-7073-12-18	3/4"	18"	12"
BH-7073-12-22	3/4"	22"	16"
BH-7073-12-28	3/4"	28"	22"
BH-7073-12-42	3/4"	42"	36"



# CONCRETE-TERMITE Rotary Hammer Carbide Bits

## Spline Drive



Fits Spline Drive drive rotary hammers.

Speed range 400-100 RPM at up to 4500 blows per minute.

Carbide tip is composed of a powder made up of Tungsten Carbide, Carbon, Cobalt, and other metals which, under heat and pressure are formed into a bit tip.

Made to ANSI standard B212.15-1994.

SVI Part Number	Diameter	Overall Length	Drilling Depth
BH-7071-08-14	1/2"	14"	8"
BH-7071-08-18	1/2"	18"	12"
BH-7071-08-22	1/2"	22"	16"
BH-7071-08-28	1/2"	28"	22"
BH-7071-08-42	1/2"	42"	36"
BH-7071-10-14	5/8"	14"	8"
BH-7071-10-18	5/8"	18"	12"
BH-7071-10-22	5/8"	22"	16"
BH-7071-10-28	5/8"	28"	22"
BH-7071-10-42	5/8"	42"	36"
BH-7071-12-14	3/4"	14"	8"
BH-7071-12-18	3/4"	18"	12"
BH-7071-12-22	3/4"	22"	16"
BH-7071-12-28	3/4"	28"	22"
BH-7071-12-42	3/4"	42"	36"

SVI also supplies High Strength Anchoring Epoxy and Crach Repair Adhesive Systems. Call SVI with your specific needs and we will help you get the right product for the job in front of you.

**ACRYLIC-TIE®**

**BOND-MAX™**

**SET Epoxy-Tie®**

**ET Epoxy-Tie®**

**ETF Epoxy-Tie®**

**ETI Injection Epoxy**

**CRACK-PAC® FLEX-H2O™**

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# Rotary Drill-Only Carbide Tipped Rebar Cutter



**Another answer to drilling through concrete-embedded rebar! No more broken or shattered hammer bits; now you can drill right through the rebar and not have to relocate the lift or hole to avoid the rebar.**

SVI Part Number	Diameter	Overall Length	Weight (lbs.)	Suggested RPM's
BH-7076-08	1/2"	12"	0.6	850-1200
BH-7076-10	5/8"	12"	0.8	750-1000
BH-7076-10A	5/8"	18"	1.3	750-1000
BH-7076-12	3/4"	12"	1.1	600-850
BH-7076-12A	3/4"	18"	1.6	600-850

## Easy as



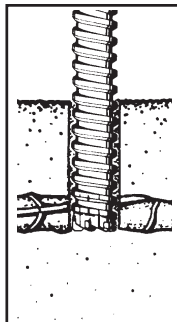
**1**



When rebar is encountered while drilling with a rotary hammer and carbide hammer bit, immediately stop the hammer and remove the bit from the hole (failure to stop will severely damage a carbide hammer bit - regardless of manufacturer's claim)

Mount a rotary rebar cutter in a standard 1/2" drill motor or 1/2" hammer drill (with the selector in the rotary-only position); insert the rotary rebar cutter into the hole and drill through the embedded rebar.

**2**



**3**



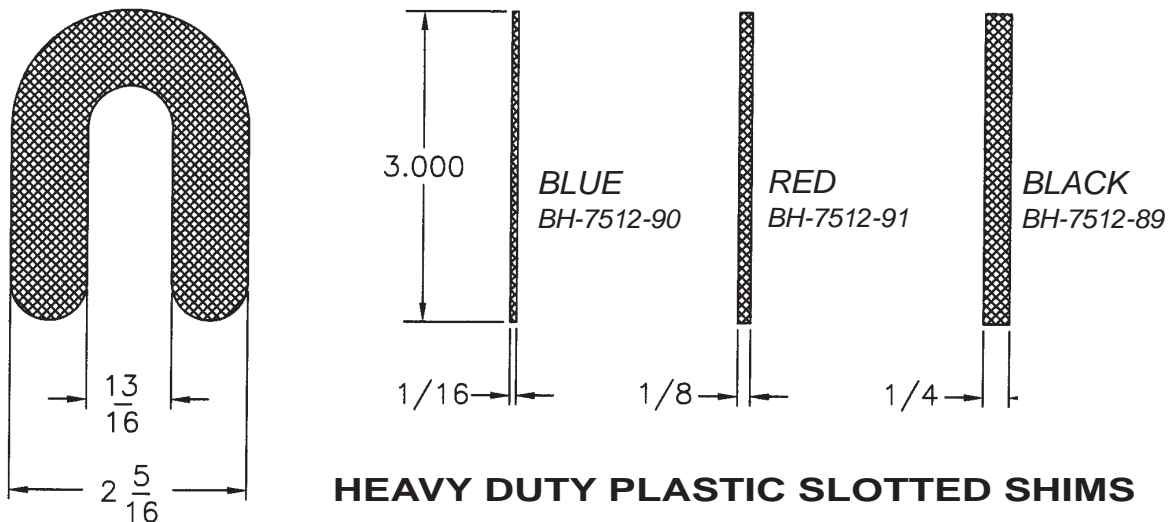
Remove the rotary rebar cutter after the rebar has been drilled completely through and finish drilling the hole with the rotary hammer and hammer bit.

**NOTE:** These carbide-tipped rotary rebar cutters are designed for use in a standard 1/2" drill motor, but a hammer drill with a standard 3-jaw chuck may be used provided the selector mechanism on the hammer drill is kept in the rotary only position. Carbide-tipped rotary rebar cutters are intended for **rotary** drilling only; percussion (hammering action) will damage the tool.

For Rebar cutters that work in SDS and Spline style drills, see page 11 of this booklet.



**Shims for 3/4" Wedge and Screw Anchors**



**HEAVY DUTY PLASTIC SLOTTED SHIMS**

Extra-thick shims make it easy to level and align 2 and 4 post surface mount lifts. These rugged plastic shims will not corrode, rot or rust. A must have for every professional lift installer in the industry. Sold in convenient 50 packs or an assortment kit of 150 pieces.

SVI Part Number	Thickness	Color	Package Quantity
BH-7512-90	1/16"	Blue	50
BH-7512-91	1/8"	Red	50
BH-7512-89	1/4"	Black	50
BH-7512-92	50 of each size	Blue/Red/Black	150

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