



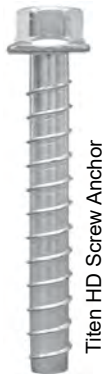
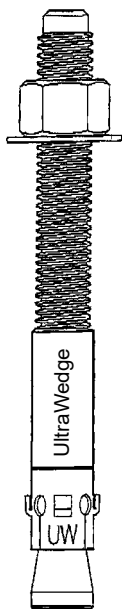
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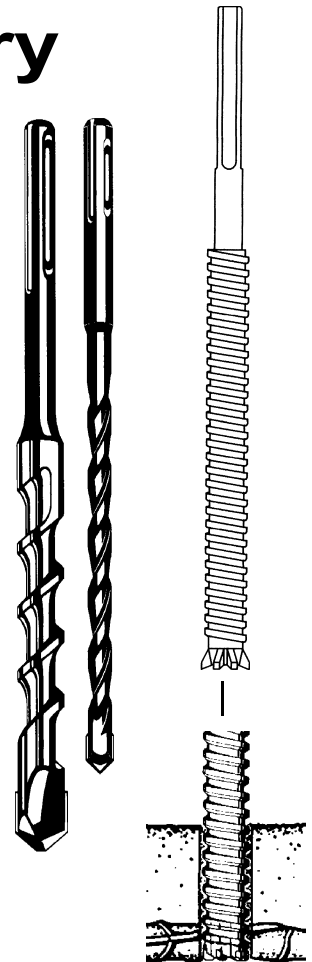
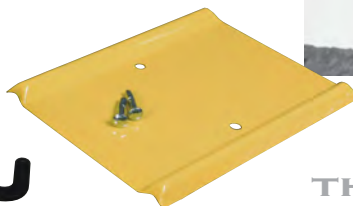
Concrete and Masonry Installation Supplies



Titen HD Screw Anchor



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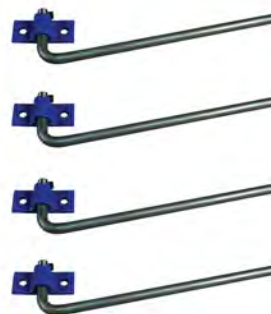


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BH-7075-03
3/4" x 5-1/2"

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Screw Anchors
Many Sizes Available!

BH-7075-26
1/2" x 4"

BH-7075-37
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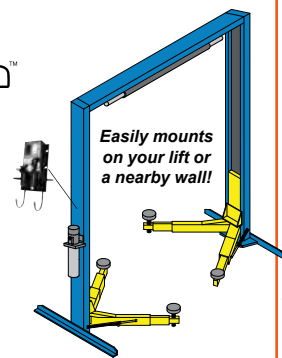
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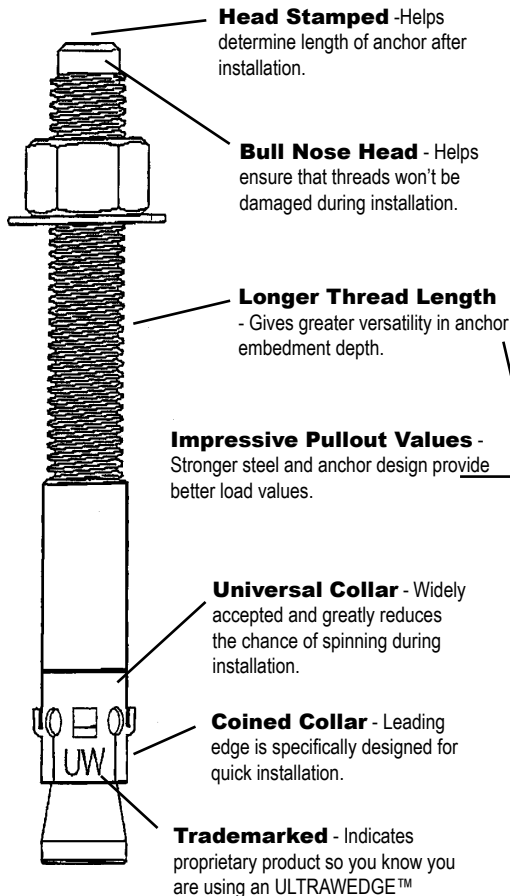
For Most Makes and Models

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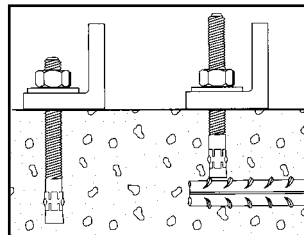


Wedge Anchors • *The choices are yours!*

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/Ctn 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	f c = 2,000 psi		f c = 4,000 psi	
		Critical Edge Distance	Ultimate Tension Load (lbs.)	Ultimate Shear Load (lbs.)	Minimum Edge Reduction
1/4"	1-1/8" 1-15/16" 2-3/4"	1-1/4"	1,417 2,269 3,120	1,452 1,452 1,452	0.78
3/8"	1-1/2" 3-1/4" 5"	1-7/8"	2,335 3,394 4,452	4,808 4,808 4,808	0.78
1/2"	2-1/4" 4-1/8" 6"	2-1/2"	3,876 5,208 6,539	8,168 8,168 8,168	0.78
5/8"	2-3/4" 4-7/8" 7"	3-1/8"	5,429 7,808 10,187	11,529 11,529 11,529	0.78
3/4"	3-1/4" 5-5/8" 8"	3-3/4"	8,812 11,874 14,935	13,224 13,224 13,224	0.78
7/8"	3-7/8" 6-5/16" 8-3/4"	4-3/8"	12,044 15,796 19,548	14,912 14,912 14,912	0.78
1"	4-1/2" 7-1/4" 10"	5"	14,566 22,651 30,735	16,597 16,597 16,597	0.78

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"
304 Stainless Steel "304"
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.



SV#	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



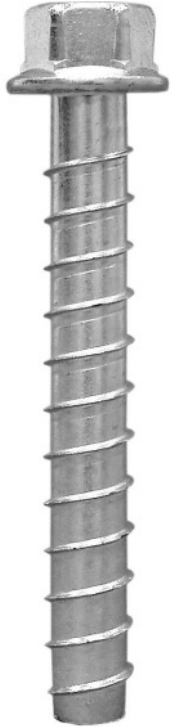
Installation: Do not EVER use an impact wrench to set or tighten the Strong-Bolt or any wedge style anchor.

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" 3-7/8" 5"	9" 7-7/8" 6-3/4"	4"	4-1/2" 6" 6-3/4"	13,500 lbs.	6,560 lbs.	6,560 lbs.
5/8"	3-3/8" 5-1/8" 6-1/8"	11" 9-5/8" 8-1/4"	5"	5-1/2" 7-7/8" 8-1/4"	20,875 lbs.	10,475 lbs.	8,380 lbs. 9,715 lbs. 10,475 lbs.
3/4"	4-1/8" 5-3/4" 7-1/2"	13-1/2" 11-3/4" 10-1/8"	6"	6-3/4" 8-3/4" 10-1/8"	34,125 lbs.	19,305 lbs.	15,445 lbs. 17,305 lbs. 19,305 lbs.

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 Mutual 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 Pre-drilled Fasteners (Screw Anchors) in Concrete or Masonry (AC106) ICC report ESR-1056 recognizes the Titen HD for the following:

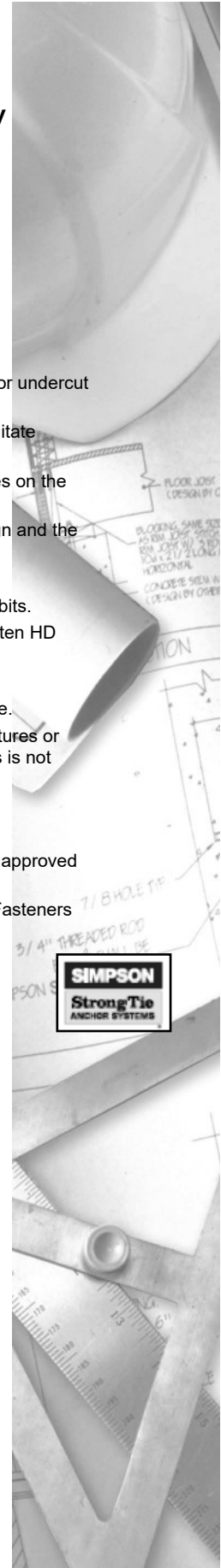
- Static tension and shear loading.
- Critical and minimum edge distance and spacing.
- Seismic and wind loading.
- Combination tension and shear loading.

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



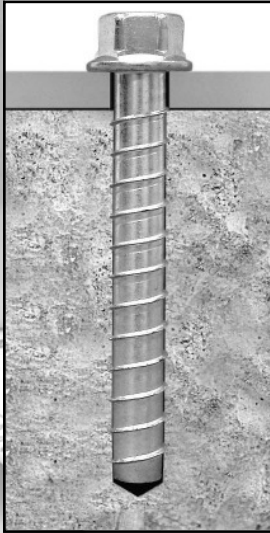
SVI#	Dia.	Length	Material	Box/Ctn Qty
BH-7075-23-MG	3/8"	5"	Mechanically Galvanized	50/100
BH-7075-24-MG	3/8"	6"	Mechanically Galvanized	50/100
BH-7075-27-MG	1/2"	5"	Mechanically Galvanized	20/80
BH-7075-28-MG	1/2"	6"	Mechanically Galvanized	20/80
BH-7075-29-MG	1/2"	6-1/2"	Mechanically Galvanized	20/40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



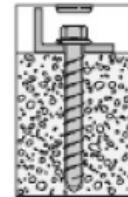
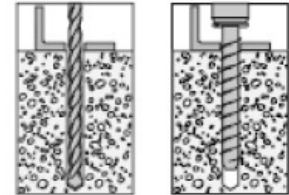
Screw Anchors • *Faster, Stronger, Neater!*

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 installation**
- **Removable**



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.

SVI is your answer!

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:

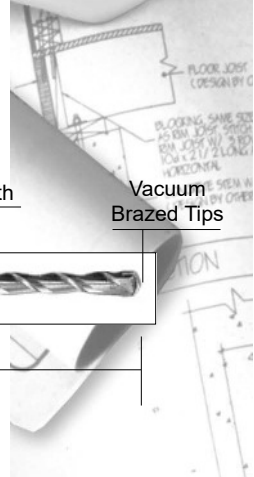
FEATURES & BENEFITS:

- 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.

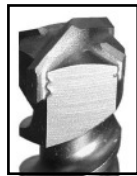
Select Simpson drill bits are available with Quad Head4x design. These high-quality bits with four cutting surfaces drill through concrete faster than conventional multi-tip bits. Quad head carbide tips are also brazed with a specially designed copper alloy. This operation is performed in vacuum brazing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



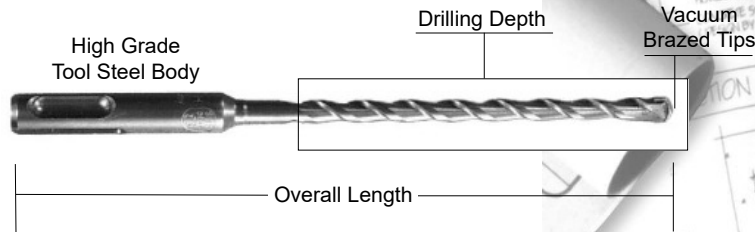
SAFETY NOTE: Always wear eye protection when operating a drill or rotohammer.



Drill Bits conform to
ANSI Standard B212.15



Quad Head 4X



Drill Bit Tool Selection Chart

	SDS Plus	SDS Max	Spline
AEG	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 & D	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
Bosch	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
Hilti	TE5, TE10, TE12, TE14, TE15, TE17, TE18, TE22, TE24, TE25, TE25S	TE54, TE55, TE 72, TE74, TE75, TE76, TE92, TE94	
Hitachi	DH15VB, DH18, DH22VD, DH24, DH25, VRT-22A, VA16	DH40MA, DH40MB, DH50MB	DH38YE, DH40FA, DH40FB, DH50SB
Kango	200, 285, 327, 422, 426, 430, 439D		430S, 501S637S, 728S, 750S, 950S
Makita	HR1821, HR2000, HR2400, HR2511	HR4000C, HR4500C, HR5001C	HR3851, HR5000
Metabo	6010, 6018, 6020, 6026		RH-32, RH-33, RH-66, RH-99, 1129, 6030
Milwaukee	5303, 5311, 5316, 5320, 5324, 5362, 5366, 5367, 5368, 5369, 5383	5313-20, 5346	5316, 5316-6, 5352, 5343, 5347
Porter Cable	639		
Ramset	425		442, 445, 475
Red Head	555, 715		747-2
Ryobi	ED160, ED211		PK382
Skil	642, 1740, 6372		
Wacker	11/110		

SIMPSON Carbide Drill Bits for concrete and masonry

SOS-PLUS® Shank Bits

SVI#	Dia.	Drilling Depth	Overall Length
BH-7063-06-10	3/8"	8"	10"
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-7063-12-16	3/4"	16"	18"
BH-7063-12-18	3/4"	18"	20"
BH-7063-12-22	3/4"	22"	24"
BH-7063-12-24	3/4"	24"	26"
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"

NLA

NLA

SDS Plus Carbide Drill Bits

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

SOS-PLUS® Quad Head Bits

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"



Quad Head 4X

More bit styles on following pages:

SIMPSON
StrongTie
ANCHOR SYSTEMS

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 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 Dia. (in.)	Wear Diff. (in.)	Bit Dia. (in.)	Wear Diff. (in.)	Bit Dia. (in.)	Wear Diff. (in.)	Bit Dia. (in.)	Wear Diff. (in.)
3/8	.008	1/2	.020	5/8	.028	13/16	.043
1/2	.008	9/16	.024	1	.032	1 1/4	.048
5/8	.012	1 1/8	.024	1 1/2	.036	1 3/4	.048
3/4	.016	1 1/2	.024	1 3/4	.039	2	.048
7/8	.020	1 3/4	.024	2	.048		

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.



SIMPSON Carbide Drill Bits for concrete and masonry

SDS Max® Carbide Drill Bits



SVI#	Dia.	Drilling Depth	Overall Length
Standard Head			
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"
Quad Head			
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-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-22-17	1-3/8"	12"	17"
BH-7064Q-22-23	1-3/8"	18"	23"
BH-7064Q-24-23	1-1/2"	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.



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

Spine Shank Carbide Drill Bits



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



SIMPSON Carbide Drill Bits for concrete and masonry

Spline Shank Quad Head Bits

SVI#	Dia.	Drilling Depth	Overall Length
BH-7065Q-10-16	5/8"	1"	16"
BH-7065Q-10-23	5/8"	18"	23"
BH-7065Q-10-27	5/8"	24"	29"
BH-7065Q-10-36	5/8"	31"	36"
BH-7065Q-12-16	3/4"	1"	16"
BH-7065Q-12-23	3/4"	18"	23"
BH-7065Q-12-27	3/4"	24"	29"
BH-7065Q-12-36	3/4"	31"	36"
BH-7065Q-14-16	7/8"	1"	16"
BH-7065Q-14-23	7/8"	17"	22"
BH-7065Q-16-23	1"	17"	22"
BH-7065Q-16-36	1"	31"	36"
BH-7065Q-18-16	1-1/8"	1"	16"
BH-7065Q-18-22	1-1/8"	17"	22"
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"	1"	16"
BH-7065Q-22-22	1-3/8"	17"	22"
BH-7065Q-24-22	1-1/2"	17"	22"
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-7062-10-06	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

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

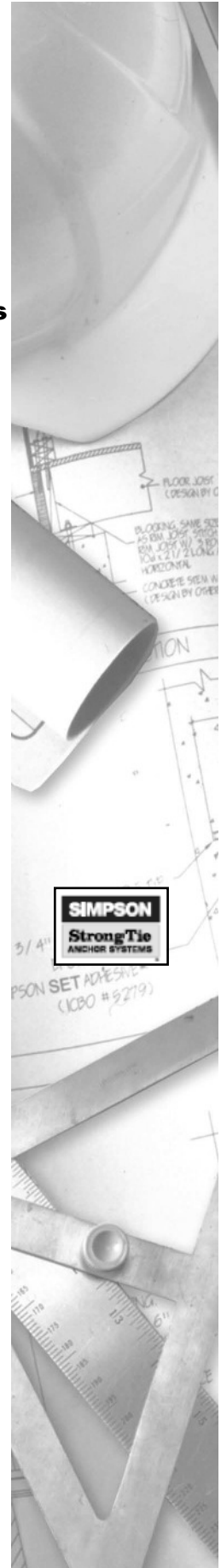
SVI#	Dia.	Length
BH-7067-15-12	1-1/2"	12"
BH-7067-15-22	1-1/2"	22"
BH-7067-20-12	2"	12"
BH-7067-20-22	2"	22"
BH-7067-25-12	2-1/2"	12"
BH-7067-25-22	2-1/2"	22"
BH-7067-30-12	3"	12"
BH-7067-30-22	3"	22"
BH-7067-35-12	3-1/2"	12"
BH-7067-35-22	3-1/2"	22"
BH-7067-40-12	4"	12"
BH-7067-40-22	4"	22"
BH-7067-50-12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





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.



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"



• Use only in the rotary only mode of your SOS-Plus, SOS-Max or Spline drive drill.

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 Sive	Description
BH-7061-21	SOS-Plus	For use in SOS-Plus style drills. Use in rotation only.
BH-7061-22	SOS-Max	For use in SOS-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 SOS-Max to SOS-Plus
BH-7061-26	Adapter for Spline to SOS-Plus

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"

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

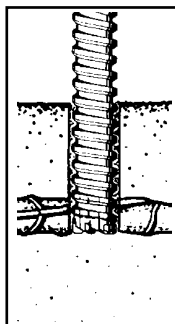
Easy as

1



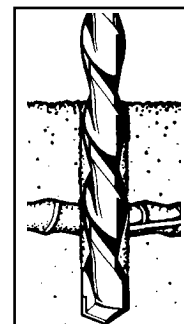
When rebar is encountered while drilling with a rotary hammer and carbide hammer bit, immediately stop the hammer and remove the bit from the hole (failure to stop will severely damage a carbide hammer bit - regardless of manufacturer's claim)

2



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.

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 21 of this booklet.

The following referenced trademarks are the property of the companies indicated:

• **AEG®**, AEG Power Tool Corp. • **B&D®**, Black and Decker Mfg. Co. • **Bosch®**, Robert Bosch Corporation • **Hilti®**, Hilti Corporation • **Hitachi®**, Hitachi Koki Company Ltd. • **Kango®**, Kango Wolf Power Tools USA • **Makita®**, Makita USA, Inc. • **Metabo®**, Ferrostal-Metabo Tool Corporation • **Millers Falls®**, The Ingersoll-Rand Co. • **Milwaukee®**, Milwaukee Electric Tool Corporation • **Porter-Cable®**, Porter-Cable Corporation • **Red Head®**, Ramset Fastening Systems • **Ryobi®**, Ryobi America Corporation • **SDS+®** and **SDS-max®**, Robert Bosch Corporation • **Strong-Bolt™**, Simpson Strong-Tie • **Skil®** Skil Corporation • **Titen HD™**, Simpson Strong-Tie • **TRUBOLT®**, Ramset Fastening Systems

LRC7075E - 12.21.21 All names, numbers, symbols and descriptions are used for reference purposes only. It is not implied that any part listed is the product of these manufacturers.

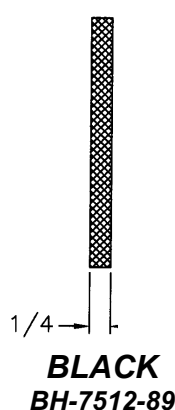
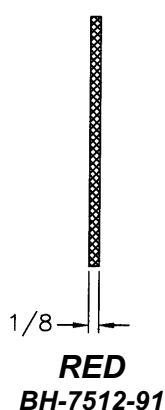
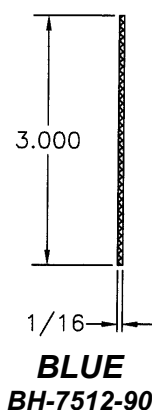
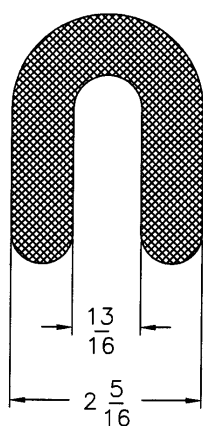
Shim Kits *Keep them on-hand. Stock up today.*

Shims for 3/4" Wedge and Screw Anchors



Color-coded for easy usage.

BH-7512-90	1/16" thick	Blue	(50 Pack)
BH-7512-91	1/8" thick	Red	(50 Pack)
BH-7512-89	1/4" thick	Black	(50 Pack)
BH-7512-92	Assortment Pack (50 of each)		



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. SVI shims are a must-have for every professional lift installer in the industry.

Auto Lift Re-Installation Kits



BH-7079-30
Auto Lift Reinstallation Kit
with Single Wheel Spotter Dish



BH-7079-32
Auto Lift Reinstallation Kit
with Double Wheel Spotter Dish

* BH-7079-30 Kit Includes BH-9701 Single Wheel Dish

* BH-7079-32 Kit Includes BH-9702 Double Wheel Dish

Kit Includes:	Qty	Description	Your Choice!
*BH-9701 OR	1	Single Wheel Dish	
*BH-9702	1	Double Wheel Dish	
BH-7075-03	20	3/4" x 5-1/2" Wedge Anchor	
BH-7512-89A	10	Plastic Shim - Black 1/4"	
BH-7512-90A	10	Plastic Shim - Blue 1/16"	
BH-7512-91A	10	Plastic Shim - Red 1/8"	

Auto Lift / Equipment Stickers

INSPECTED	
Date of Inspection:	
Next Inspection Due:	
Auto Lift Make:	
Lift Model No.:	
Lift Capacity:	
Lift Bay or Location No.:	
Inspected By:	
<small>SVI PIN BH-7011-11</small> This space left intentionally blank for inspection notes or lift inspection company's business sticker. It is highly recommended that automotive lifts be inspected by a qualified lift service company every six months.	

Lift Inspected Stickers

Roll of 250
3-1/2" x 3" Sticker
Adhesive Backed
BH-7011-11

Pipe and Tank Wrap Tape

BH-9900-04

4" x 100'

BH-9900-02

2" x 100'



MFG.	
MODEL	
SERIAL #	
CAPACITY	
DATE	

Identification Stickers 4" x 2"

Set of 4 Adhesive Backed

BH-9990-04

Manufacturer:		WARNING: Never allow personnel to operate lift who are not familiar with the Operation Instruction section of the Installation-Service Manual.
Model Number:		
Capacity:		
Date of Installation:		

Aluminum Name Plate 4" x 1"

BH-9990-01 Adhesive Backed

Dimensions:
4.75" x 1.75"



Maximum Load Capacity Stickers

Ask for the **LB-12000 Series Label**
Specify Weight (Lbs.):

1,000	2,500	4,000	9,000	18,000
1,500	3,000	5,500	10,000	25,000
1,750	3,500	6,000	12,000	30,000
2,000	3,600	7,000	14,000	36,000
2,250	3,750	8,000	15,000	50,000

Custom Weight Capacity May Be Available with Quantity Order



Tire Hanger Kit for All Brands of Lifts or Equipment

(includes hardware)

BH-7545-70K-4 (4) Tire Hanger Kits

BH-7545-70K (1) Tire Hanger Kit



ADJUSTABLE
Fits 2-Post Lift Models with 3" to 5" Wide Arms

Tire / Wheel Hanger Kit (Set of 2)

100 lb. Capacity Each

SF-92100

Includes 2 Hangers and 2 Magnetic Tool Trays

Tool and Adapter Holder

BH-7051-02



Easily hang on lift column or wall for quick access to tools!



SuperSocket

Lift King
BRAND



an SVI
cooperative effort
product offering

L
I
F
T



SVI Part

BH-7083-01	15/16" • 36" x 1/2" Drive
BH-7083-02	15/16" • 36" x 3/4" Drive
BH-7085-01	1-1/8" • 36" x 1/2" Drive
BH-7085-02	1-1/8" • 36" x 3/4" Drive
BH-7085-03	1-1/4" • 36" x 3/4" Drive

Note: ratchet not included



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The **Lift King brand SuperSocket** is ideal for everyone who installs auto lifts using standard wedge anchor fasteners. Since air or electric powered impact wrenches are an absolute no-no around wedge anchors, this product is the right tool for the job. Who wants to crawl around on their knees to hand tighten 10 or more anchors per lift installation?

With the **SuperSocket**, this is over! Now you can properly tighten anchors while reducing stress on your knees, back, joints and shoulders.

This tool is also ideal for use as a pry bar or roller for moving lifts around. Every installer or installer team should carry at least one on the truck. Do the job right and reduce the energy you expend.

Benefits:

- Keeps you off your knees.
- Reduces fatigue.
- Allows you to achieve higher and more consistent torque values with less energy.
- Lets you work with your legs rather than your back.
- Easier on your joints.

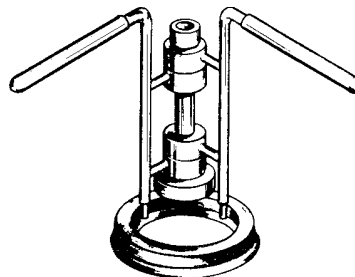
Features:

- 1/2" or 3/4" Drive Available
- 40" Long
- Powder Coat Finish
- Can be used as a lift roller or pry bar

**Don't delay, order your
SuperSocket today.**

LIFT REPAIR PRO

Rod Seal Install Tool for tight rod seal installations

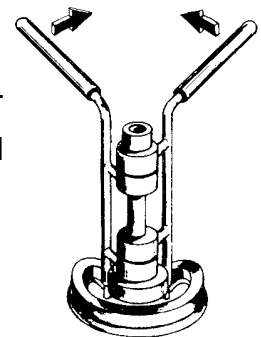


Place seal on flat surface with seal lip down.

Open tool so that center pin is outside the seal O.D. and the handle pins are inside the I.D.

Rotate handles to deform the seal.

Install seal in groove from external end of the cylinder bore.



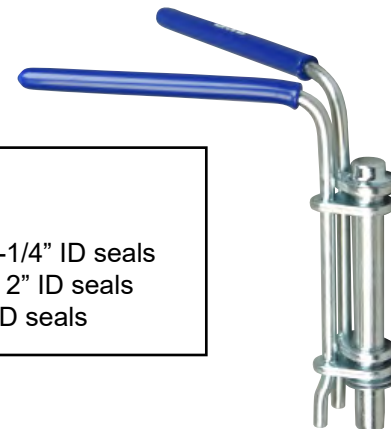
Release pressure and remove the tool.

With finger pressure snap remaining part of the seal into the groove.

Whether you are installing new seals for the first time or re-packing your 51st cylinder, the rod seal Install-Tool makes installing small rod seals without damaging them a snap. Everyone who re-packs cylinders in the automotive lift industry should have a set of these tools on the truck or in the shop.

Order your set today. SVI is your answer!

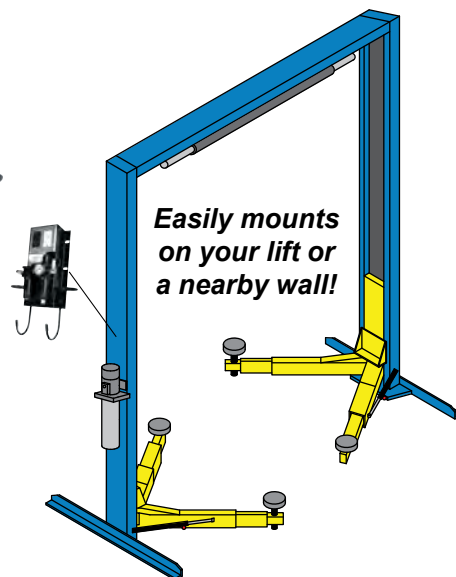
SVI Part #	For	From	Description
BH-7079-01	Any	SVI	Install Tool Set
BH-7079-01A	Any	SVI	Install Tool for 3/4" ID to 1-1/4" ID seals
BH-7079-01B	Any	SVI	Install Tool for 1-1/2" ID to 2" ID seals
BH-7079-01C	Any	SVI	Install Tool for 2" ID to 3" ID seals



Contact your favorite SVI representative to order tools or for replacement cylinder seal kits. SVI has been in the hydraulic seal business since its founding. In fact, our sister company, Valley Precision Solutions (VPS) supplies oil seals for use by big name stock cars and other racing teams and affiliations. The next time you are watching a race—you are watching our seals, too.

The VPS seals on the track go round and round.

It's SVI when you want to make something new!



Simply install the PowerStation™ on your surface-mount lift or nearby wall, bring in your air and electric service, and watch the results. You'll see improved performance and a more organized shop. No longer worry about trip hazards associated with cords and hoses stretched for great distances across your floor.

**What better step-saving tool is there?
Reward service technicians with a product
that will make their jobs easier and more
efficient. Increase shop productivity today.**

For 2-Post Lifts

BH-7070-K

For 4-Post Lifts

BH-7069-K

FEATURES:

- Attractive black powder coat finish matches the color scheme in any shop.
- Easy-to-install. Adapts to most surface-mount lifts or any nearby wall.
- 20 amp (20-5R) outlets with GFCI protection are standard.
- Electrical outlets are positioned above the filter to prevent moisture problems (common with others).
- Air system provides both filtered non-lubricated and lubricated air—one for tire inflation and blow guns, the other for your pneumatic tools.

BENEFITS:

- Air lines and electrical cords are within easy reach.
- Your surface mount lifts become more service tech friendly.
- Enhances your overall shop appearance and performance.

APPLICATIONS:

- Ideal for Automotive Lifts, CNC Machining Centers, Machine Tools, Assembly Stations, and more.



SVI International, Inc.
800-321-8173 • 815-748-0200
155 Harvestore Drive • DeKalb, IL 60115

Since 1977

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DIRECT FIT™ BRAND

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AUTO LIFT REPAIR PARTS FOR ALL MAKES & MODELS

~NO MATTER THE AGE OF THE LIFT!

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- Chain
- doorjammerPRO - Door Protection Pad
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- Power Post Lifting Systems
- Tanks for In-Ground Lifts
- Turf Attachments for 2-Post Lifts

SURFACE MOUNT LIFT PARTS FOR:

Acanus	Gemini	Quality
Ammco®*	Gilbarco	Ranger
Alamo /	Globe	Ravaglioli
ASSSA	Grand	Rotary Lifts
ALM	Hofmann	Silent Tech
AMI	Hydralift	Slift
Ashawa	Ime Istobal	Somers Souriau
Ben Pearson	Kismet	Stenhoj
BendPak	Kimm	Stertil Koni
Benwil	Koni	Sun
Bishamon	Launch	Tecalemit
Boston	Laycock	Titan
Bradbury	Lincoln	Weaver
Cascos	Maha	Werther
Consul	Manitowoc Lifts	Western
Challenger	Mohawk	Westinghouse
Force	Nussbaum	Wheeltronic
Ford Smith	OMA	Worth
Forward	OMCN	Zippo
Fuchs / Zippo	PMW	

IN-GROUND LIFT PARTS FOR:

Benwil	Gilbarco	PKS Lifts
Challenger	Globe	Rotary
Cochin	HDL/ISS Innovative	US Hoist
Curtis	Joyce	Weaver
Ford Smith	Manitowoc Lifts	Western

AIR COMPRESSOR PARTS

- Air Receiver Tanks • Compressor Mufflers
- Automatic Tank Drain Valve for Champion Compressors
- Filters—Many OEM Ref Available!
- Filters, Regulators, Lubricators
- Intake Filter Products
- Milton Air System Products
- Re-Coil Hose • Valves
- Vibration Dampening Pads & much more!

BRAKE LATHES REPAIR PARTS

- Brake Lathe Repair Parts and Accessories for All Makes 

EXHAUST REMOVAL SYSTEMS & PRODUCTS

FLUID DELIVERY

- Lenz Fittings
- Steel Hydraulic Line Tubing and Fittings
- Strut and Hangers

HOSE REELS BY REELCRAFT®

HYDRAULIC CYLINDERS—

- Custom Single-Acting Large Bore Cylinders
- Also see "Lifting Equipment"

LIFTING EQUIPMENT

- New In-Ground Lifts—Car, Truck & Bus
- Small Equipment Shop Maintenance (SESM) Lifts for lifting Landscape Equip. ATVs / UTVs, Motorcycles, Lawn Mowers, Golf Carts and More!
- Custom Lifting Equipment incl. Production Line Lifts, Rail Car Lifts and More
- Custom Hydraulic Cylinders for Various Applications
- Turf Attachments for 2-Post Lifts
- In-Ground Lift Sections and Kits
- And more!

EASY TO ORDER:

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815-748-0200

Fax: 800-899-1784 • 815-748-0210

E-Mail: parts@sviintl.com

www.sviinternational.com

LUBRICATION & PAINT / FOAM SPRAY REPAIR PARTS & KITS FOR:

- Alemite • ARO • Balcrank • Graco • Lincoln

PETROLEUM EQUIPMENT & REPAIR PARTS FOR:

- Gas Pump & Meter Kits and Parts for Gasboy • Tokheim • Fill-Rite
- Including Parts for Older Pumps: Wayne • Bennett • Gilbarco • Bowser A.O. Smith (Geosource) • Southwest

SEAL KITS

SHOP EQUIPMENT

- Hein-Werner Products • Omega Products
- Porto-Power • Pro-Lift

TIRE EQUIPMENT REPAIR PARTS

- Tire Changer and Wheel Balancer Parts for All Makes

Accu-Turn	FMC	Nussbaum
All Tool	Giuliano	Ranger
Ammco®*	Hofmann	Sicam
BaseLine®*	Hunter	Sice
Bosch	John Bean /	Snap-On
Cemb	(JBC)	Teco
Coats®*	Kwik-Way	Tuxedo
Corgi	Launch	

VALVES

- Air Compressor Valves of All Types
- Air and Hoist Control Valves
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- Kingston Valves • Pressure Relief Valves
- Relief Valves • Safety Valves
- Solenoid Valves
- Tire Changer Valves • And More!

CUSTOM PRODUCTS

And let us know if you want something you use in your shop to be added to our product line!

DIRECT FIT™

In addition to SVI's DIRECT FIT™ BRAND, we are proud to be a one-stop shop for many other great products including:



B-Line
by E.T.N



and many more!

3 Ready-Ship Warehouses for Faster Shipping! | **BALTIMORE • CHICAGO • LOS ANGELES**

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**TERMS AND CONDITIONS OF THE
SALES ORDER
FOR SVI INTERNATIONAL, INC.**

1. **GENERAL.** The terms and conditions of sales order outlined herein shall apply to the sale by SVI INTERNATIONAL, INC. (hereinafter referred to as "Company") of the items described on the facing page (hereinafter referred to as "Merchandise") to Purchaser.
2. **DELIVERY.** Delivery shall be deemed to be complete when the Merchandise has been shipped F.O.B. Company's plants in DeKalb, Illinois, Montclair, California; and Hanover, Maryland ("Company's plants"). Shipments are subject to delays from causes or contingencies beyond the reasonable control of the Company. When otherwise not specified, shipments will be made in standard containers via carrier which, in the judgment of the Company, will result in the most practical method. Title and right of possession will pass to the Purchaser upon receipt by the carrier at the shipping point. If a customer of the Company should specify a specific carrier's method of shipment (i.e. UPS Next Day Air) and that carrier does not perform to the customer's expectations, freight credit to a customer's account will not be issued unless the Company can first obtain a credit.
3. **RISK OF LOSS.** Identification of the Merchandise under Uniform Commercial Code (hereinafter referred to as "UCC") Section 2-501 shall take place at the moment of shipment F.O.B. Company's plants. Risk of loss shall pass to the Purchaser when the Merchandise is shipped from the Company's plants.
4. **TITLE.** Title to the merchandise shall transfer to the Purchaser when the Merchandise is shipped from the Company's plants.
5. **WARRANTIES.** The Company guarantees its products to be free from defects in workmanship and raw materials for a period of one year from date of purchase. THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL WARRANTIES EXPRESS OR IMPLIED. COMPANY DOES NOT WARRANT THE MERCHANDISE IS MERCHANTABLE OR FIT FOR ANY PARTICULAR PURPOSE. Company's liability for breach of the terms of this Agreement, including any warranty, is limited to either refund of the invoice price of the Merchandise or at Company's option, replacement of the Merchandise free of charge, including transportation charges but not including the cost of labor. Purchaser has not relied on any statement or upon the conduct of Company with respect to the prospective use of the merchandise. Company shall not be liable for and Purchaser waives any and all claims for any loss or damage, directly or indirectly, arising from the use of the Merchandise and for punitive, incidental or consequential damages, including, but not limited to, damages to property, for loss of use, loss of time, loss of profit or loss of income. The Company does not authorize the sale of our products under any other warranty, expressed or implied. **Please note:** Electrical components and cylinder or shaft seals are not covered under warranty.
6. **SETOFF.** All claims for money due or to become due from the Company shall be subject to deduction by the Company for any setoff or counterclaim arising out of this or any other claims of the Company or its affiliated companies, whether such setoff or counterclaim arose before or after any assignment by Purchaser.
7. **INDEMNIFICATION.** Purchaser agrees to indemnify the Company and hold it harmless from and against all claims, liability, loss, damage or expense, including reasonable counsel fees, arising from or by reason of any modifications or alterations made by Purchaser. If a customer of the Company modifies or alters any part, in any manner whatsoever, or uses any part in departure from recommended performance specifications, said customer agrees to indemnify and hold the Company harmless from and against all liability and expenses based on damage to property or injury to or death of any person arising out of or attributable to such modified or altered part. Further, the Company will not accept any such modified or altered part for credit to a customer's account.
8. **FREIGHT POLICY.** Freight charges are prepaid and added to invoice or collect FOB shipping point. Note: All customers are responsible for all carrier shipping costs, fees, surcharges, etc. including order refusal and return fees.
9. **RETURN POLICY.** To return a part for credit or inspection, Purchaser must first contact our Main Office in Illinois, to obtain a Return Merchandise Form. Once Purchaser has obtained this form, the parts can be returned freight prepaid only. The Return form must be included with the shipment. Parts returned to the Company without the approved form will be returned freight collect to the shipper or refused. Returns must be initiated within 30 days of the invoice date. The Return Forms are valid for 30 days, from the date of issue. All Returns are subject to restocking charges. Return parts brought into our remote warehouses, will not be accepted by our personnel, without a Return Merchandise Form from the Main Office. Parts which have been used in any way or manner, including any installation or incorporation into a lift, hoist, or other equipment, shall NOT be eligible for return whether or not a Return form has been assigned. **Please note:** Electrical parts or components are not returnable for credit. This includes all switches, pushbuttons, relays, electric motors, capacitors, fuses, solenoids, power units with wiring issues or any other electrical items. Custom, built to order, special order, and non-stocked genuine parts are non-returnable.
10. **RESTOCK CHARGE.** Returns are subject to a restocking charge. Refusals are subject to the same restocking charge plus the cost of outbound and return freight charges and/or fees incurred by the Company due to shipment refusal.
11. **PRICES AND PAYMENTS.** All prices are subject to change without notice. All prices are F.O.B. shipping point. The Company standard terms are net 30 days, C.O.D. company check, C.O.D. cash, VISA, MasterCard, Discover or American Express. However, if in the judgment of the Company, the financial condition of the Purchaser at any time does not justify shipment according to standard terms of payment, the Company may require full or partial payment in advance.
12. **INTERPRETATION.** This sales order is intended by the parties as a complete and exclusive statement of the terms of their agreement. It supersedes all prior agreements, written or oral. No course of prior dealings between the parties and no usage of the trade shall be relevant to supplement or explain any terms used in this sales order. Acceptance or acquiescence in a course of performance rendered under this purchase order shall not be relevant to determine the meaning of this sales order even though the accepting or acquiescing party has knowledge of the nature of the performance and opportunity for objection. Whenever a term defined by the UCC is used in this sales order the definition contained in the UCC shall control.
13. **MODIFICATION.** This sales order can be modified or rescinded only by a writing signed by both parties.
14. **WAIVER.** No claim or right arising out of a breach of this sales order can be discharged in whole or in part by a waiver or renunciation of the claim or right unless such waiver or renunciation is supported by consideration and is in writing signed by the aggrieved party.
15. **ASSIGNMENT.** No right or interest in this sales order shall be assigned by either party without the written consent of the other and no delegation of any obligation owed, or of the performance of any obligation by either the Company or Purchaser shall be made without the written consent of the other party. Any attempted assignment or delegation not made in conformity with this paragraph shall be wholly void and totally ineffective for all purposes.
16. **TIME TO PERFORM AND BRING ACTION.** Time is of the essence of this sales order. Any action for breach of this sales order shall be commenced within two (2) years after the cause of action has accrued. Any party who loses any litigation shall reimburse the other party for costs including reasonable attorney's fees. The exclusive jurisdiction for any legal action shall be the Circuit Court of DeKalb County, Illinois.
17. **APPLICABLE LAW.** This sales order shall be governed by the UCC of Illinois as effective and in force on the date of this sales order.

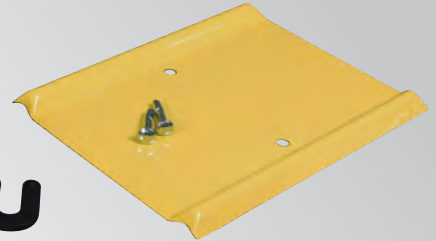


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INSPECTED	
Date of Inspection:	
Next Inspection Due:	
Auto Lift Make:	
Lift Model No.:	
Lift Capacity:	
Lift Bay or Location No.:	
Inspected By:	

This inspection is required by OSHA 1910.67. It is highly recommended a qualified lift tech perform this inspection.

MFG	
MODEL	
SERIAL #	
CAPACITY	
DATE	



- Air Compressor Parts and Filters
- Auto Lift Parts for Any Brand
- Auto Lift Cables and Chain
- Auto Lift Power Units and Parts
- Auto Lift Sheaves / Pulleys and Chain Rollers
- Brake Lathes and Repair Parts for All Makes
- Exhaust System Products
- Fluid Delivery Repair Parts
- Hose Reels and Hose Stops
- In-Ground Auto Lifts
- Lubrication Equipment Repair Parts
- Petroleum / Service Station Pump and Tank Products
- RELS Brake Lathes
- Repair Parts for Gasboy Consumer Series
- SESM Lifts for ATV/UTV, Golf Cart and More!
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- Transfer Pumps
- Turf Attachments for 2-Post Lifts
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