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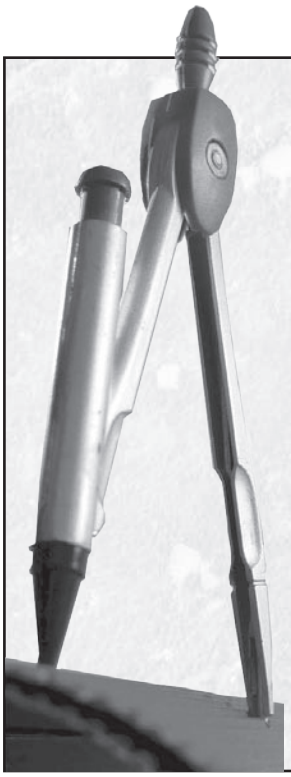
THE ANCHORING INDUSTRY

WHY IS IT CHANGING?



The building code serves as the basic 'roadmap' that an engineer uses to design a structure. The previous versions of the building code (known as legacy codes) did not directly address post-installed anchoring applications. The new building code which is now in effect addresses anchor design. In prior years many structural engineers relied on manufacturer based testing programs, technical information provided by manufacturers, and a design method which incorporated safety margins provided by a standard global factor (Allowable Stress Design).

However in 2003, the International Building Code (IBC) introduced state-of-the-art requirements for design, testing and evaluation of anchors. The 2003 and 2006 IBC is now in place in nearly all United States jurisdictions making these changes nationwide.

WHAT IS CHANGING?

The Testing, Evaluations And Approvals

For anchors used in reinforced concrete, previous ICC-ES Evaluation Reports (based on Allowable Stress Design) became invalid after December 31, 2007. All anchoring products now are required to comply with the IBC through new product specific testing and evaluation. Approvals for non-reinforced masonry will remain provided the reports are renewed.

The Anchors

New anchors are being designed to meet the new criteria. Powers is leading the way with more than 12 new solutions.

The Design Method

Allowable Stress Design (ASD) is being replaced by Strength Design (SD). The old method of applying a 4:1 or 10:1 safety factor (as determined by the engineer) is no longer applicable under the new International Building Code. Only Strength Design will be used in the future and along with its use new anchors are being tested to these new standards.

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WHAT IS STRENGTH DESIGN?

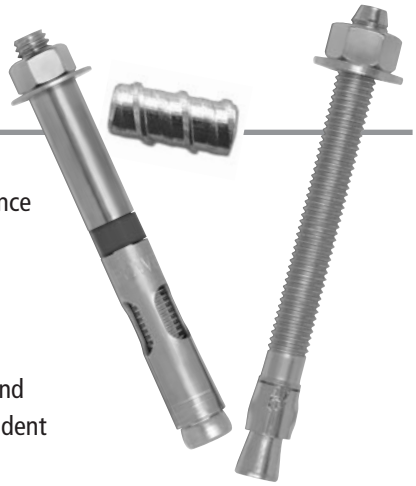
Strength Design is a design procedure used by engineers to ensure acceptable levels of safety and the proper functioning of a structure for its expected lifetime. Strength Design is based on statistics, engineering principles and a general knowledge of material behavior. When applied to anchoring, Strength Design requires the factored resistance to be greater than the factored loading. **OR**

Anchor Strength Reduced by a Strength Reduction Factor (Factored Resistance) ≥ **Forces Acting on an Anchor Increased by a Load Factor** (Factored Load)

HOW DOES STRENGTH DESIGN APPLY IN ANCHORAGE IN CONCRETE?

The 2003 International Building Code requires post-installed anchors to be designed according to ACI 318 Appendix D which is based on Strength Design. Furthermore, Appendix D requires post-installed anchors to be tested and qualified according to ACI 355.2 (which is supplemented by ICC-ES Acceptance Criteria 193). ACI 355.2 introduced several new tests including the performance of anchors in cracked concrete conditions.

WHAT PRODUCTS CONFORM?



Powers Fasteners has began introducing the "+" line of Strength Design products and will continue throughout the coming years. These products have been or will be tested for compliance with the 2003 IBC. The "+" product line includes Power-Stud+ SD1, SD2, SD3, SD4 and SD5, Wedge-Bolt+ BT and OT, Power-Bolt+, Tapper+, Vertigo+, Spike+, Snake+, AC100+Gold and PE1000+.

To the date of this catalog's release, Powers has completed testing on the Power-Stud+ SD2 and Snake+ where many sizes are now in stock. Both products have been evaluated by an independent testing agency as a Category 1 anchor which is highest reliability rating obtainable.

Powers FASTENERS **ALL NEW DESIGN ANCHORING + SYSTEMS PRODUCTS WILL HAVE THE FOLLOWING FEATURES AND BENEFITS:**

- **Qualification testing for building code compliance (2003 and 2006 IBC)**
- **Performance over a wide range of compressive strength (2500ñ8500 psi)**
- **Knowledge of failure mode of the anchor**
- **Increased safety, reliability and confidence in anchor performance**
- **Design for cracked concrete conditions**
- **Easy calculations of anchor groups**

Your Newman representative will keep you informed of the advances made by Powers Fasteners as the new '+' line of Strength Design products are fully tested, approved and become available for purchase.

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MECHANICAL ANCHOR SELECTION GUIDE

Powers FASTENERS

	Anchor Category	Expansion Anchors				Screw Anchors		Rod Hanging Systems		
	Product	Power-Bolt	Power-Stud	Lok-Bolt	Set-Bolt	Wedge-Bolt	Tapper	Vertigo	Bang-It	Wood-Knocker
Base Material	Concrete	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	■	■	□	■	■	■	■	■
	Hollow Core Plank	□		□		□	■	■		
	Grout-filled Concrete Masonry	■	□	□	□	■	■			
	Hollow Concrete Masonry	□		■		□	■			
	Solid Brick	■		■	□	■	■			
	Hollow Brick	□		□			□			
	Stone	□	□	□	□		□			
	Structural Clay Tile						□			
	Wood							■		
	Steel							■		
Anchor Diameter	3/16"						■			
	1/4"	■	■	■	■	■	■	■	■	■
	5/16"	■		■						
	8 mm									
	3/8"	■	■	■	■	■	■	■	■	■
	1/2"	■	■	■	■	■		■	■	■
	5/8"	■	■	■		■			■	■
	3/4"	■	■	■		■			■	■
	7/8"		■						■	
	1"		■							
	1 1/4"		■							
Head Style	Finished Hex Head	■				■	■			
	Round / Acorn Head			■						
	Flat Head (Countersunk)	■		■			■			
	Mushroom Head									
	Removable	■				■	■	■		
	Tie-Wire Head		■	■						
	Tamperproof									
	Female Coupler		■	■					■	■
Coating/Material	Coated / Plated Carbon Steel	■	■	■	■	■	■	■	■	■
	Galvanized Steel		■			■				
	Type 303/304 Stainless Steel	■	■	■			■			
	Type 316 Stainless Steel		■							
	Type 410 Stainless Steel					■	■			
	Perma-Seal Coated						■			
	Nylon / Plastic								■	■

■ - Suitable
□ - May Be Suitable

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MECHANICAL ANCHOR SELECTION GUIDE

Powers FASTENERS

Anchor Category		Bolt and Shield Anchors								Facade Anchor	Pin Anchors		Nail Anchors		
	Product	Snake	Hollow-Set Dropin	Steel Dropin	Mini Dropin	Double	Single	Calk-In	Lag-Shield	Heli-Pin	Spike	Drive	Zamac Hammer-Screw	Zamac Nailin	Nylon Nailin
Base Material	Concrete	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	□	■	■	□	□	□	□	■	■	□	□	□	□
	Hollow Core Plank	■	■		■								□	□	□
	Grout-filled Concrete Masonry	□	■		□	□	□	■	■	■	■	□	□	□	□
	Hollow Concrete Masonry		■			■		■	□				■	■	■
	Solid Brick		■			■	□	■	■	■	□	□	■	■	■
	Hollow Brick		□						□				□	□	□
	Stone		□	□	□	□	□	□	□	□	□	□	□	□	□
	Structural Clay Tile														
	Wood														
	Steel														
Anchor Diameter	3/16"										■	■		■	■
	1/4"	■	■	■	■	■	■	■	■		■	■	■	■	■
	5/16"		■			■	■	■	■						
	8 mm									■					
	3/8"	■	■	■	■	■	■	■	■		■	■			
	1/2"		■	■	■	■	■	■	■		■	■			
	5/8"		■	■		■	■		■						
	3/4"			■		■	■		■						
Head Style	Mushroom Head										■	■	■	■	■
	Round Head														■
	Flat Head (Countersunk)										■	■		■	■
	Tie-Wire										■	■			
	Removable												■		
	Tamperproof										■	■		■	■
	Flush Mount	■	■	■	■	■	■	■	■				■		
Coating/Material	Coated / Plated Carbon Steel	■	■	■	■						■	■	■	■	■
	Galvanized Steel														
	Type 303/304 Stainless Steel		■	■									■	■	■
	Type 316 Stainless Steel			■						■	■				
	Type 410 Stainless Steel														
	Zamac Alloy		■			■	■	■	■				■	■	
	Perma-Seal Coated												■		
	Nylon / Plastic														■
	Lead							■							

■ - Suitable

□ - May Be Suitable

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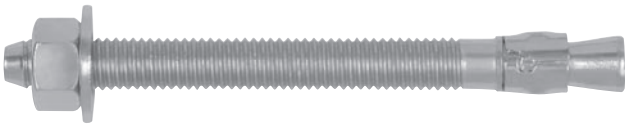
MECHANICAL ANCHORS

POWER STUD™+

Powers FASTENERS



The POWER-STUD™ + SERIES anchors are fully threaded, torque-controlled, wedge expansion anchors designed for consistent performance in cracked and uncracked concrete. General applications include structural connections (i.e., beam and column anchorage), safety-related attachments, Interior applications / low level corrosion environment, tension zone applications (i.e., cable trays and strut, pipe supports and fire sprinklers), seismic and wind loading applications.

The Power-Stud™ + SD1 and Power-Stud™ + SD2 featured on this page are suitable for base materials that include normal-weight concrete, structural sand/ lightweight concrete and concrete over metal deck.

POWER STUD™ +SD1

Carbon steel body plus carbon steel clip

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07400	7400SD1	Power-Stud+ SD1 CS	1/4" x 1-3/4"	100	500
07402	7402SD1	Power-Stud+ SD1 CS	1/4" x 2-1/4"	100	500
07404	7404SD1	Power-Stud+ SD1 CS	1/4" x 3-1/4"	100	500
07410	7410SD1	Power-Stud+ SD1 CS	3/8" x 2-1/4"	100	500
07412	7412SD1	Power-Stud+ SD1 CS	3/8" x 2-3/4"	100	500
07413	7413SD1	Power-Stud+ SD1 CS	3/8" x 3"	100	500
07414	7414SD1	Power-Stud+ SD1 CS	3/8" x 3-1/2"	100	500
07415	7415SD1	Power-Stud+ SD1 CS	3/8" x 3-3/4"	100	500
07416	7416SD1	Power-Stud+ SD1 CS	3/8" x 5"	100	500
07417	7417SD1	Power-Stud+ SD1 CS	3/8" x 7"	100	500
07420	7420SD1	Power-Stud+ SD1 CS	1/2" x 2-3/4"	100	500
07422	7422SD1	Power-Stud+ SD1 CS	1/2" x 3-3/4"	100	500
07423	7423SD1	Power-Stud+ SD1 CS	1/2" x 4-1/4"	100	500
07424	7424SD1	Power-Stud+ SD1 CS	1/2" x 5-1/2"	100	500
07426	7426SD1	Power-Stud+ SD1 CS	1/2" x 7"	100	500
07427	7427SD1	Power-Stud+ SD1 CS	1/2" x 8-1/2"	100	500
07430	7430SD1	Power-Stud+ SD1 CS	5/8" x 3-1/2"	100	500
07432	7432SD1	Power-Stud+ SD1 CS	5/8" x 4-1/2"	100	500
07433	7433SD1	Power-Stud+ SD1 CS	5/8" x 5"	100	500
07434	7434SD1	Power-Stud+ SD1 CS	5/8" x 6"	100	500
07436	7436SD1	Power-Stud+ SD1 CS	5/8" x 7"	100	500
07438	7438SD1	Power-Stud+ SD1 CS	5/8" x 8-1/2"	100	500
07439	7439SD1	Power-Stud+ SD1 CS	5/8" x 10"	100	500
07440	7440SD1	Power-Stud+ SD1 CS	3/4" x 4-1/4"	100	500
07441	7441SD1	Power-Stud+ SD1 CS	3/4" x 4-3/4"	100	500
07442	7442SD1	Power-Stud+ SD1 CS	3/4" x 5-1/2"	100	500
07444	7444SD1	Power-Stud+ SD1 CS	3/4" x 6-1/4"	100	500
07446	7446SD1	Power-Stud+ SD1 CS	3/4" x 7"	100	500
07448	7448SD1	Power-Stud+ SD1 CS	3/4" x 8-1/2"	100	500
07449	7449SD1	Power-Stud+ SD1 CS	3/4" x 10"	100	500
07450	7450SD1	Power-Stud+ SD1 CS	7/8" x 6"	100	500
07451	7451SD1	Power-Stud+ SD1 CS	3/4" x 12"	100	500
07452	7452SD1	Power-Stud+ SD1 CS	7/8" x 8"	100	500
07454	7454SD1	Power-Stud+ SD1 CS	7/8" x 10"	100	500
07461	7461SD1	Power-Stud+ SD1 CS	1" x 6"	100	500
07463	7463SD1	Power-Stud+ SD1 CS	1" x 9"	100	500
07465	7465SD1	Power-Stud+ SD1 CS	1" x 12"	100	500
07473	7473SD1	Power-Stud+ SD1 CS	1-1/4" x 9"	100	500
07475	7475SD1	Power-Stud+ SD1 CS	1-1/4" x 12"	100	500

POWER STUD™ +SD2

Carbon steel body plus stainless steel clip

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
00000	7413SD2	Power-Stud+ SD2 CS	3/8" x 3"	100	500
00000	7415SD2	Power-Stud+ SD2 CS	3/8" x 3-3/4"	100	500
00000	7416SD2	Power-Stud+ SD2 CS	3/8" x 5"	100	500
00000	7422SD2	Power-Stud+ SD2 CS	1/2" x 3-3/4"	100	500
00000	7423SD2	Power-Stud+ SD2 CS	1/2" x 4-1/2"	100	500
00000	7424SD2	Power-Stud+ SD2 CS	1/2" x 5-1/2"	100	500
00000	7426SD2	Power-Stud+ SD2 CS	1/2" x 7"	100	500
00000	7427SD2	Power-Stud+ SD2 CS	1/2" x 8-1/2"	100	500
00000	7435SD2	Power-Stud+ SD2 CS	5/8" x 4-3/4"	100	500
00000	7433SD2	Power-Stud+ SD2 CS	5/8" x 5"	100	500
00000	7434SD2	Power-Stud+ SD2 CS	5/8" x 6"	100	500
00000	7434SD2	Power-Stud+ SD2 CS	5/8" x 7"	100	500
00000	7438SD2	Power-Stud+ SD2 CS	5/8" x 8-1/2"	100	500
00000	7442DS2	Power-Stud+ SD2 CS	3/4" x 5-1/2"	100	500
00000	7444SD2	Power-Stud+ SD2 CS	3/4" x 6-1/4"	100	500
00000	7446SD2	Power-Stud+ SD2 CS	3/4" x 7"	100	500
00000	7448SD2	Power-Stud+ SD2 CS	3/4" x 8-1/2"	100	500

COMING SOON...

ADDITIONAL POWER-STUD™ + ANCHORS WILL BECOME AVAILABLE DURING 2008 PENDING FINAL APPROVALS AND LISTINGS.*

Ask your Newman representative about...

POWER-STUD™ + SD3: Galvanized body plus carbon steel clip

POWER-STUD™ + SD4: 304 Stainless steel body plus stainless steel clip

POWER-STUD™ + SD5: 316 Stainless steel body plus stainless steel clip

***APPROVALS AND LISTINGS**

- International Code Council, Evaluation Service (ICC-ES), ESR Pending
- Tested in accordance with ACI 355.2 and AC193 criteria
- Evaluated and qualified by an accredited independent testing laboratory for use in cracked and uncracked concrete including seismic and wind loading
- Strength Design method according to ACI 318, Appendix D

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MECHANICAL ANCHORS

WEDGE-BOLT+

Powers FASTENERS

WEDGE-BOLT+

Blue Tip - Standard Fixture Hole Clearance

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07204	7204SD	Wedge-Bolt+ SD BT	1/4" x 1-1/4"	100	500
07206	7206SD	Wedge-Bolt+ SD BT	1/4" x 1-3/4"	100	500
07208	7208SD	Wedge-Bolt+ SD BT	1/4" x 2-1/4"	100	500
07210	7210SD	Wedge-Bolt+ SD BT	1/4" x 3"	100	500
07220	7220SD	Wedge-Bolt+ SD BT	3/8" x 1-3/4"	100	500
07222	7222SD	Wedge-Bolt+ SD BT	3/8" x 2-1/2"	100	500
07224	7224SD	Wedge-Bolt+ SD BT	3/8" x 3"	100	500
07226	7226SD	Wedge-Bolt+ SD BT	3/8" x 4"	100	500
07228	7228SD	Wedge-Bolt+ SD BT	3/8" x 5"	100	500
07230	7230SD	Wedge-Bolt+ SD BT	3/8"x 6"	100	500
07240	7240SD	Wedge-Bolt+ SD BT	1/2" x 2"	100	500
07242	7242SD	Wedge-Bolt+ SD BT	1/2" x 2-1/2"	100	500
07244	7244SD	Wedge-Bolt+ SD BT	1/2" x 3"	100	500
07246	7246SD	Wedge-Bolt+ SD BT	1/2" x 4"	100	500
07248	7248SD	Wedge-Bolt+ SD BT	1/2" x 5"	100	500
07250	7250SD	Wedge-Bolt+ SD BT	1/2" x 6"	100	500
07260	7260SD	Wedge-Bolt+ SD BT	5/8" x 3"	100	500
07262	7262SD	Wedge-Bolt+ SD BT	5/8" x 4"	100	500
07264	7264SD	Wedge-Bolt+ SD BT	5/8" X 5"	100	500
07266	7266SD	Wedge-Bolt+ SD BT	5/8" X 6"	100	500
07280	7280SD	Wedge-Bolt+ SD BT	3/4" x 3"	100	500
07282	7282SD	Wedge-Bolt+ SD BT	3/4" x 4"	100	500
07284	7284SD	Wedge-Bolt+ SD BT	3/4" x 5"	100	500
07286	7286SD	Wedge-Bolt+ SD BT	3/4" x 6"	100	500
07288	7288SD	Wedge-Bolt+ SD BT	3/4" x 8"	100	500

WEDGE-BOLT+

Orange Tip - Oversized Fixture Holes

OLD CAT. NO.	NEW CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
07214	7214SD	Wedge-Bolt+ SD OT	1/4" x 1-1/4"	100	500
07215	7215SD	Wedge-Bolt+ SD OT	1/4" x 3"	100	500
07216	7216SD	Wedge-Bolt+ SD OT	3/8" x 4"	100	500
07217	7217SD	Wedge-Bolt+ SD OT	1/2" x 4"	100	500
07218	7218SD	Wedge-Bolt+ SD OT	1/2" x 5"	100	500
07219	7219SD	Wedge-Bolt+ SD OT	5/8" x 4"	100	500
07221	7221SD	Wedge-Bolt+ SD OT	5/8" x 5"	100	500
07227	7227SD	Wedge-Bolt+ SD OT	5/8" x 6"	100	500
07229	7229SD	Wedge-Bolt+ SD OT	5/8" x 6"	100	500
07231	7231SD	Wedge-Bolt+ SD OT	3/4" x 3"	100	500
07232	7232SD	Wedge-Bolt+ SD OT	3/4" x 8"	100	500
07233	7233SD	Wedge-Bolt+ SD OT	1/2" X 6-1/2"	100	500

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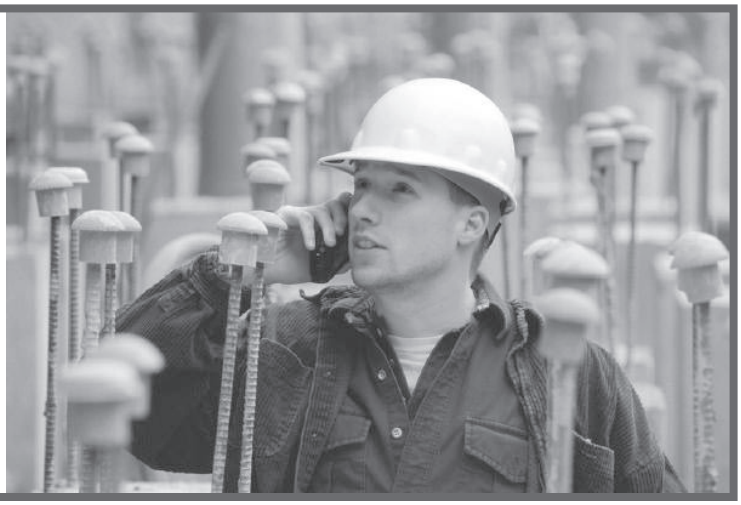

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MECHANICAL ANCHORS

LOK-BOLT™ SLEEVE TYPE EXPANSION ANCHORS

Powers FASTENERS

BASE MATERIAL
Concrete, Block, Brick

SIZE RANGE
1/4" x 5/8" to 3/4" x 7-1/2"

ANCHOR MATERIAL
Carbon Steel & Stainless Steel

The Lok-Bolt™ anchor is a pre-assembled single unit sleeve anchor available in carbon steel and stainless steel which can be used in concrete, block, brick and stone. Extension sleeves are added to create longer lengths.

HEX NUT LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5005	5/16" x 1-1/2"	5/16"	1-3/8"	100	1000
5010	5/16" x 2-1/2"	5/16"	1-1/2"	100	500
5015	3/8" x 1-7/8"	3/8"	1-5/8"	50	500
5020	3/8" x 3"	3/8"	1-5/8"	50	500
5022	3/8" x 4"	3/8"	1-5/8"	50	250
5025	1/2" x 2-1/4"	1/2"	2-1/8"	25	250
5030	1/2" x 3"	1/2"	2-1/4"	25	250
5034	1/2" x 4"	1/2"	2-1/4"	25	125
5033	1/2" x 5-1/4"	1/2"	2-1/4"	25	125
5032	1/2" x 6"	1/2"	2-1/4"	10	100
5035	5/8" x 2-1/4"	5/8"	2-1/8"	25	125
5038	5/8" x 3"	5/8"	2-3/4"	25	125
5040	5/8" x 4-1/4"	5/8"	2-3/4"	10	100
5045	5/8" x 6"	5/8"	2-3/4"	10	100
5050	3/4" x 2-1/2"	3/4"	2-1/8"	10	100
5055	3/4" x 4"	3/4"	3-3/8"	10	40
5060	3/4" x 5-3/4"	3/4"	3-3/8"	10	30
5065	3/4" x 7-1/2"	3/4"	3-3/8"	10	30

The published length is measured from below the washer to the end of the anchor.

HEX NUT LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6152	3/8" x 1-7/8"	3/8"	1-5/8"	50	500
6153	3/8" x 3"	3/8"	1-5/8"	50	500
6156	1/2" x 2-1/4"	1/2"	2-1/8"	25	250
6157	1/2" x 3"	1/2"	2-1/4"	25	250
6160	1/2" x 4"	1/2"	2-1/4"	25	125
6164	5/8" x 4-1/4"	5/8"	2-3/4"	10	100
6168	3/4" x 4"	3/4"	3-3/8"	10	40

The published length is measured from below the washer to the end of the anchor.

ACORN NUT LOK-BOLT™ CARBON STEEL

CAT. NO .	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5125**	1/4" x 5/8"	1/4"	1/2"	100	1000
5150	1/4" x 1-3/8"	1/4"	1-1/8"	100	1000
5175	1/4" x 2-1/4"	1/4"	1-1/8"	100	1000

The published length is measured from below the washer to the end of the anchor.
*** This size does not have a compression ring.*

ACORN NUT LOK-BOLT 304 STAINLESS STEEL

CAT. NO .	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6150	1/4" x 1-3/8"	1/4"	1-1/8"	100	1000

The published length is measured from below the washer to the end of the anchor.

ROUND HEAD LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5205**	1/4" x 1-1/8"	1/4"	1"	100	1000
5210	1/4" x 2"	1/4"	1-1/8"	100	1000
5215	1/4" x 2-3/4"	1/4"	1-1/8"	100	1000
5235	3/8" x 2-1/2"	3/8"	1-5/8"	50	500
5240	3/8" x 3-3/4"	3/8"	1-5/8"	50	250

*** This size does not have a compression ring.*

ROUND HEAD LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6180	1/4" x 2"	1/4"	1-1/8"	100	1000

Think Safety First...

WE DO!

Our Safety Section Begins on Page 1.

NEWMAN ASSOCIATES
THE CONSTRUCTION SUPPLY SPECIALIST . . . WHERE SERVICE COMES FIRST

MECHANICAL ANCHORS

LOK-BOLT™ SLEEVE TYPE EXPANSION ANCHORS

Powers FASTENERS

COMBO FLAT HEAD LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5305**	1/4" x 1-1/8"	1/4"	1"	100	1000
5310	1/4" x 2"	1/4"	1-1/8"	100	1000
5315	1/4" x 3"	1/4"	1-1/8"	100	1000
5320	1/4" x 4"	1/4"	1-1/8"	100	500
5325	1/4" x 5-1/4"	1/4"	1-1/8"	100	500
5330	5/16" x 2-1/2"	5/16"	1-1/2"	100	1000
5340	3/8" x 2-3/4"	3/8"	1-5/8"	50	500
5345	3/8" x 4"	3/8"	1-5/8"	50	250
5350	3/8" x 5"	3/8"	1-5/8"	50	250
5360	3/8" x 6"	3/8"	1-5/8"	50	250

*** This size does not have a compression ring.*

COMBO FLAT HEAD LOK-BOLT™ 304 STAINLESS STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6170	1/4" x 2"	1/4"	1-1/8"	100	1000
6172	1/4" x 3"	1/4"	1-1/8"	100	1000
6174	3/8" x 4"	3/8"	1-5/8"	50	250
6175	3/8" x 5"	3/8"	1-5/8"	50	250
6176	3/8" x 6"	3/8"	1-5/8"	50	250

These parts do not have a compression ring.

THRESHOLD FLAT HEAD LOK-BOLT™

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	STD. BOX	STD. CTN.
5500	1/4" x 2"	1/4"	1-1/8"	100	1000

This part does not have a compression ring.

ROD HANGER LOK-BOLT™ CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5810	1/4" x 1-1/2"	5/16"	1-1/2"	50	250
5815**	3/8" x 1-7/8"	3/8"	1-5/8"	50	250
5825**	1/2" x 2-1/4"	1/2"	2-1/4"	25	125

*** This size does not have a compression ring.*

TIE-WIRE LOK-BOLT™

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	STD. BOX	STD. CTN.
5700	5/16" x 1-1/2"	5/16"	1-1/2"	100	1000

LOK-BOLT™ EXTENDERS CARBON STEEL

(FOR ADDITIONAL LENGTH)

CAT. NO.	SIZE	DRILL DIA.	STD. BOX	STD. CTN.
5684	3/8 x 1-1/4"	3/8"	50	500

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MECHANICAL ANCHORS

TAPPER™ CONCRETE SCREWS AND DRILL BITS

Powers FASTENERS

BASE MATERIAL
Concrete, Block and Brick

SIZE RANGE
3/16" x 1-1/4" to 3/8" x 6"

ANCHOR MATERIAL
Carbon Steel, Type 304 & Type 410 Stainless Steel

The TAPPER™ Anchoring System is a family of screw anchors, specially designed drill bits and installation tools designed to meet the needs of most light to medium duty applications in concrete, block and brick. The TAPPER™ concrete screw anchor is produced in either hex washer head or Phillips flat head styles from Perma-Seal™ coated carbon steel and Type 304 and Type 410 stainless steel.
The 3/8" size is made in zinc plated carbon steel.

BLUE PERMA-SEAL™ TAPPER™ HEX HEAD

STANDARD PACKAGING-100 SCREWS AND 1 DRILL PER BOX

CAT. NO.	SIZE	STD. BOX	STD. CTN.	DRILL REFERENCES STRAIGHT	DRILL REFERENCES SDS HEX
2700	3/16" x 1-1/4"	100	500	2781	2793
2702	3/16" x 1-3/4"	100	500	2781	2793
2704	3/16" x 2-1/4"	100	500	2782	2793
2706	3/16" x 2-3/4"	100	500	2782	2793
2708	3/16" x 3-1/4"	100	500	2783	2794
2710	3/16" x 3-3/4"	100	500	2783	2794
2712	3/16" x 4"	100	500	2783	2794
2720	1/4" x 1-1/4"	100	500	2785	2796
2722	1/4" x 1-3/4"	100	500	2785	2796
2724	1/4" x 2-1/4"	100	500	2786	2796
2726	1/4" x 2-3/4"	100	500	2786	2796
2728	1/4" x 3-1/4"	100	500	2787	2797
2730	1/4" x 3-3/4"	100	500	2787	2797
2732	1/4" x 4"	100	500	2787	2797

BLUE PERMA-SEAL™ TAPPER™ PHILLIPS FLAT HEAD

STANDARD PACKAGING-100 SCREWS AND 1 DRILL PER BOX

CAT. NO.	SIZE	STD. BOX	STD. CTN.	DRILL REFERENCES STRAIGHT	DRILL REFERENCES SDS HEX
2740	3/16" x 1-1/4"	100	500	2781	2793
2742	3/16" x 1-3/4"	100	500	2781	2793
2744	3/16" x 2-1/4"	100	500	2782	2793
2746	3/16" x 2-3/4"	100	500	2782	2793
2748	3/16" x 3-1/4"	100	500	2783	2794
2750	3/16" x 3-3/4"	100	500	2783	2794
2752	3/16" x 4"	100	500	2783	2794
2760	1/4" x 1-1/4"	100	500	2785	2796
2762	1/4" x 1-3/4"	100	500	2785	2796
2764	1/4" x 2-1/4"	100	500	2786	2796
2766	1/4" x 2-3/4"	100	500	2786	2796
2768	1/4" x 3-1/4"	100	500	2787	2797
2770	1/4" x 3-3/4"	100	500	2787	2797
2772	1/4" x 4"	100	500	2787	2797
2774	1/4" x 5"	100	100	2788	-
2776	1/4" x 6"	100	100	2789	-

CARBIDE DRILL BITS FOR PERMA-SEAL™ AND 410 SS TAPPER™

TAPPER™ Drill Bits in the diameters listed are nominal size. 3/16" and 1/4" Perma-Seal™ TAPPER™ anchors must be installed with special tolerance TAPPER™ drill bits. 1/4" Stainless Steel TAPPER™ anchors require the use of specific tolerance TAPPER™ drill bits, which are gold or silver colored, to denote the standard size and special application size for harder materials. 3/8" diameter TAPPER™ anchors should be installed with a 1/4" ANSI drill bit.

Tolerance Range = 0.168" to 0.175" for the 5/32" and 0.202" to 0.204" for the 3/16" bits. (Do not use with Type 304 Stainless Steel TAPPER™)

STRAIGHT SHANK

CAT. NO.	SIZE	USABLE LENGTH	STD. TUBE
2781	5/32" x 3-1/2"	2"	10
2782	5/32" x 4-1/2"	3"	10
2783	5/32" x 5-1/2"	4"	10
2785	3/16" x 3-1/2"	2"	10
2786	3/16" x 4-1/2"	3"	10
2787	3/16" x 5-1/2"	4"	10
2788	3/16" x 6-1/2"	5"	10
2789	3/16" x 7-1/2"	6"	10

SDS HEX

CAT. NO.	SIZE	USABLE LENGTH	STD. TUBE
2793	5/32" x 5"	3"	1
2794	5/32" x 7"	5"	1
2796	3/16" x 5"	3"	1
2797	3/16" x 7"	5"	1

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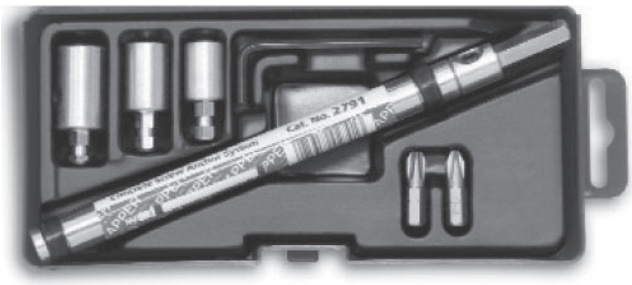
TAPPER™ INSTALLATION TOOLS & ACCESSORIES

Powers FASTENERS



INSTALLATION TOOLS FOR 3/16" AND 1/4" TAPPER™

CAT. NO.	DESCRIPTION	MAX SCREW LENGTH	MAX. BIT LENGTH	STD. BOX
2791	TAPPER™ 1000 Tool (as shown)	4"	5-1/2"	1
2792*	CONDRIVE®† 2000	2-3/4"	4-1/2"	1
2795	1000 SDS Extension (8")	6"	7-1/2"	1

** This tool cannot be used with SDS Drill Bits or PFH screws.*

CONDRIVE®† 2000 REPLACEMENT PARTS

CAT. NO.	DESCRIPTION	STD. BOX
2956	1/4" Hex Key	1
2957	5/16" Hex Key	1

† CONDRIVE® is a Registered Trademark of Illinois Tool Works.

TAPPER 3000 TOOL KIT

CAT NO.	DESCRIPTION	BOX	CARTON
5865	Hex Driver (use with cat. #5860) Sleeve Assembly (same as cat. #5874) 1/4" and 3/8" concrete drive sockets (blue)	1	10
5874	Sleeve Assembly	1	-

CAT NO.	DESCRIPTION	USABLE LENGTH	STD. TUBE	WT./ 10
5866	1/4" x 6" Hex Shank SDS Drill Bit	4"	1	1/2

TAPPER™ 1000 REPLACEMENT PARTS

CAT. NO.	DESCRIPTION	STD. BOX
2953	Drive Sleeve Assy. (5-3/4")	1
2964	Blue 3/16" Hex Wedge-Bolt® Socket	1

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MECHANICAL ANCHORS

SNAKE™ INTERNALLY THREADED SELF-TAPPING ANCHOR

Powers FASTENERS

BASE MATERIAL
Concrete

SIZE RANGE
1/4" and 3/8" diameter

ANCHOR MATERIAL
Carbon Steel

The Snake+ anchor is an all-steel, internally threaded, self-tapping screw anchor designed for use in cracked and uncracked concrete and is suitable for overhead anchoring applications. The Snake+ design allows for shallow embedment and can be installed in normal-weight concrete, structural sand-lightweight concrete and concrete over metal deck. The Snake+ screw anchor is installed with a power tool and Snake+ setting tool and mechanically interlocks with the base material. A hammer is not required for installation.

APPLICATIONS AND USES

- Suspending Conduit
- Cable Trays and Strut
- Pipe Supports
- Fire Sprinklers
- Suspended Lighting

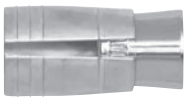
SNAKE+ SD SETTING TOOL

SNAKE+

All steel, self-tapping machine bolt anchor.

CAT. NO.	DESCRIPTION	SIZE	STD. BOX	STD. CTN.
6401SD	SNAKE+ Internally Threaded	3/8"	50	500
6407SD	SNAKE+ SD Setting Tool	3/8"	1	-

HOLLOW-SET™ DROPINS AND SETTING TOOL



Internally Threaded Expansion Anchor

BASE MATERIAL
Concrete, Block, Brick, Pre-cast Hollow Core Plank, Stone

SIZE RANGE
1/4" to 5/8"

ANCHOR MATERIAL
Zamac Alloy with Carbon Steel or Stainless Steel Cones

The Hollow-Set™ Dropin anchor is designed for anchoring in hollow base materials such as hollow concrete block, brick with weep holes and hollow core pre-cast concrete plank. It can also be used in solid base materials.
Hollow masonry materials often have a minimum outer wall thickness of 1-1/2". During the drilling process, spalling on the back side of the wall often decreases the wall thickness available for anchoring to 1" or less. The design of the Hollow-Set™ Dropin overcomes this problem.

ZAMAC BODY WITH CARBON STEEL CONE

CAT. NO.	SIZE	DRILL DIA.	OVERALL LENGTH	SLEEVE LENGTH	STD. BOX	STD. CTN.
9320	1/4"	3/8"	7/8"	5/8"	100	1000
9330	5/16"	5/8"	1-5/16"	15/16"	50	500
9340	3/8"	5/8"	1-5/16"	15/16"	50	500
9350	1/2"	3/4"	1-3/4"	1-1/4"	50	250
9360	5/8"	1"	2"	1-1/2"	25	125

ZAMAC BODY WITH STAINLESS STEEL CONE

CAT. NO.	SIZE	DRILL DIA.	OVERALL LENGTH	SLEEVE LENGTH	STD. BOX	STD. CTN.
9420	1/4"	3/8"	7/8"	5/8"	100	1000
9440	3/8"	5/8"	1-5/16"	15/16"	100	500

For solid base materials

SETTING TOOLS - SOLID BASE MATERIALS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
9322	1/4"	1	1
9342	5/16" & 3/8"	1	1
9352	1/2"	1	1
9362	5/8"	1	1

For hollow base materials

SETTING TOOLS - HOLLOW BASE MATERIALS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
9323	1/4"	1	1
9333	5/16"	1	1
9343	3/8"	1	1
9353	1/2"	1	1
9363	5/8"	1	1

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STEEL DROPINS AND SETTING TOOL

Powers FASTENERS

Internally Threaded Expansion Anchor

BASE MATERIAL

Solid Concrete, Solid Block, Hard Stone

SIZE RANGE

1/4" to 3/4" Standard Thread, 1/2" & 3/4" in Coil Thread

ANCHOR MATERIAL

Carbon Steel and Type 303 or 316 Stainless Steel

The Steel Dropin is an all-steel, machine bolt anchor available in carbon steel and two types of stainless steel. It can be used in solid concrete, hard stone, and solid block. A coil-thread version for forming applications is also available. A setting tool is also available in each standard carton.

CARBON STEEL DROPIN (SMOOTH WALL)

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6304	1/4"	3/8"	1"	7/16"	100	1000
6306	3/8"	1/2"	1-9/16"	5/8"	50	500
6308	1/2"	5/8"	2"	13/16"	50	250
6320	5/8"	7/8"	2-1/2"	1-3/16"	25	125
6312	3/4"	1"	3-3/16"	1-3/8"	10	50

CARBON STEEL FLANGED DROPIN (LIPPED)

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6324	1/4"	3/8"	1"	7/16"	100	1000
6326	3/8"	1/2"	1-9/16	5/8"	50	500
6328	1/2"	5/8"	2"	13/16"	50	250

CARBON STEEL KNURLED WALL DROPIN

CAT. NO.	ROD/ANCHOR SIZE	OVERALL LENGTH	THREAD DEPTH	STD. BOX	STD. CTN.
6340	1/4"	1"	7/16"	100	1000
6342	3/8"	1-9/16"	5/8"	50	250
6344	1/2"	2"	13/16"	50	250

TYPE 303 STAINLESS STEEL DROPIN

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6204	1/4"	3/8"	1"	7/16"	100	1000
6206	3/8"	1/2"	1-9/16"	5/8"	50	500
6208	1/2"	5/8"	2"	13/16"	50	250
6210	5/8"	7/8"	2-1/2"	1-3/16"	25	125
6212	3/4"	1"	3-3/16"	1-3/8"	10	50

TYPE 316 STAINLESS STEEL DROPIN

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6224	1/4"	3/8"	1"	7/16"	100	1000
6226	3/8"	1/2"	1-9/16"	5/8"	50	500
6228	1/2"	5/8"	2"	13/16"	50	250
6230	5/8"	7/8"	2-1/2"	1-3/16"	25	125

CARBON STEEL COIL THREAD DROPIN

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6330	1/2"	5/8"	2"	13/16"	50	250
6332	3/4"	1"	3-3/16"	1-3/8"	10	50

Use Setting Tool Cat. No. 6309 for 1/2" size, Cat. No. 6313 for 3/4" size.

SETTING TOOLS FOR STEEL DROPIN ANCHORS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6305	1/4"	1	250
6307	3/8"	1	100
6309	1/2"	1	100
6311	5/8"	1	50
6313	3/4"	1	25

MINI DROPINS AND SETTING TOOL

Internally Threaded Expansion Anchor

BASE MATERIAL

Pre-cast Hollow Core Plank, Concrete

SIZE RANGE

1/4", 3/8" and 1/2"

ANCHOR MATERIAL

Carbon Steel

The Mini Dropin is a carbon steel, machine bolt anchor used in shallow embedment applications. It can be used in solid concrete and hollow core concrete plank, and it can be used in hard stone and solid block. It may also be used in overhead applications.

CAT. NO.	SIZE	DRILL DIA.	MIN. DEPTH	THREAD DEPTH	STD. BOX	STD. CTN.
6335	1/4"	3/8"	5/8"	3/8"	100	1000
6322	3/8"	1/2"	3/4"	13/32"	100	1000
6337	1/2"	5/8"	1"	5/8"	50	250

SETTING TOOLS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6336	1/4"	1	50
6323	3/8"	1	50
6338	1/2"	1	50

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MECHANICAL ANCHORS

VERTIGO™ ROD HANGER SYSTEMS

Vertigo Powers FASTENERS

BASE MATERIAL
Steel, Wood, Concrete

SIZE RANGE
1/4" – 1/2"

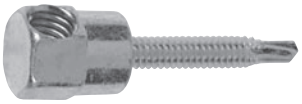
ANCHOR MATERIAL
Carbon Steel

PRODUCT DESCRIPTION

Vertigo is a one-piece, all steel threaded fastening system for suspending steel threaded rod and other assemblies. Vertigo can be installed in a variety of materials including steel bar joists and beams, wood frame columns and beams, as well as concrete beams and columns. In wood and steel base materials, Vertigo is also offered in a side mount style for lateral installation of 1/4" and 3/8" diameter steel threaded rods onto joists, columns and trusses. For all steel and wood Vertigo fasteners, a red Vertigo Socket Driver is recommended to provide proper installation with a screw gun or hammer drill in "rotation only" mode. Concrete Vertigo fasteners should be installed with the appropriate size standard drive sockets and hammer drill or powered impact wrench.

STEEL VERTICAL HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
#3 FOR PURLINS					
7155	1/4"	1/4-20 x 1"	#3	100	500
7157	3/8"	1/4-20 x 2"	#3	100	500
7158	3/8"	1/4-20 x 1" (w/nuts)	#3	100	500
7159	3/8"	1/4-20 x 1-1/2"	#3	100	500
7160	3/8"	1/4-20 x 1-1/2" (w/nuts)	#3	100	500
#5 FOR BEAMS					
7152	1/4"	12-24 x 1-1/2"	#5	100	500
7154	3/8"	12-24 x 1-1/2" (w/nuts)	#5	100	500
7161	1/2"	12-24 x 1-1/2" (w/nuts)	#5	100	500



STEEL SIDE HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
#3 FOR PURLINS					
7183	1/4"	1/4-20 x 1"	#3	100	500
7184	3/8"	1/4-20 x 1" (w/nuts)	#3	100	500
7186	3/8"	1/4-20 x 1-1/2" (w/nuts)	#3	100	500
7188	3/8"	1/4-20 x 2" (w/nuts)	#3	100	500
#5 FOR BEAMS					
7200	1/4"	12-24 x 1-1/2"	#5	50	250
7201	3/8"	12-24 x 1-1/2" (w/nuts)	#5	100	500

POLE TOOL

CAT NO.	DESCRIPTION	BOX	CARTON
7166	6'-12' Pole Tool (includes three Jaw Chuck)	1	1

WOOD VERTICAL HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
7163	1/4"	1/4" x 2"	Type 17	100	500
7203	3/8"	1/4" x 1"	Type 17	100	500
7165	3/8"	1/4" x 2"	Type 17	100	500
7167	3/8"	1/4" x 3"	Type 17	100	500
7169	3/8"	1/4" x 4"	Type 17	100	500
7162	3/8"	3/8" x 2-1/2"	Type 17	100	500
7164	1/2"	3/8" x 2-1/2"	Type 17	100	500

WOOD SIDE HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
7185	1/4"	1/4 x 1"	Type 17	100	500
7205	3/8"	1/4 x 1"	Type 17	100	500
7170	3/8"	1/4 x 2"	Type 17	100	500
7156	3/8"	3/8 x 2-1/2"	Type 17	100	500

CONCRETE VERTICAL HANGER

CAT NO.	ROD SIZE	SCREW SHANK SIZE & LENGTH	POINT STYLE	BOX	CARTON
7171	1/4"	1/4 x 1-1/4"	ANSI WB thread	100	500
7173	3/8"	1/4 x 1-1/2"	ANSI WB thread	100	500
7175	1/2"	3/8 x 2-3/4"	ANSI WB thread	50	250

For Side Mount Concrete Applications use Cat. No. 7185 and 7170 with a 1/4" ANSI Drill Bit

VERTIGO™ ACCESSORIES

DRIVER SOCKET

CAT NO.	DESCRIPTION	COLOR	BOX	CARTON
7187	Universal Steel & Wood Socket	Red	5	25
7195	1/4" Concrete Socket	Blue	5	25
7197	3/8" Concrete Socket	Blue	5	25
7198	1/2" Concrete Socket	Blue	5	25

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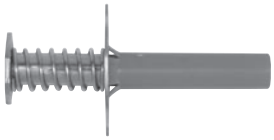
MECHANICAL ANCHORS

BANG-IT CONCRETE INSERTS



BASE MATERIAL
Concrete, Lightweight Concrete

SIZE RANGE
1/4" to 7/8"

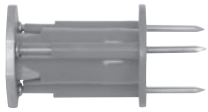
ANCHOR MATERIAL
Carbon Steel and Engineered Plastic

Bang-It Concrete Inserts are designed for installation through pre-drilled metal composite deck (i.e. "pan deck") used to support a newly poured concrete floor or roof slab. Depending upon the size/color chosen, the protective sleeve protrudes below the surface of the deck allowing overhead attachment of steel threaded rod in sizes ranging from 1/4" to 7/8" in diameter. The protective sleeve prevents sprayed fireproofing material and acoustical dampening products from clogging the internal threads of the insert inside, as well as burying, masking or losing the insert location. The unique, six-sided impact plate offers resistance to rotation within the concrete as a steel threaded rod is being installed.

CAT. NO.	DESCRIPTION	PRE DRILLED HOLE	STD. BOX	PALLET QTY.
7540	1/4" Brown Bang-It™	13/16"	100	4000
7542	3/8" Green Bang-It™	13/16"	100	4000
7544	1/2" Yellow Bang-It™	13/16"	100	4000
7546	5/8" Red Bang-It™	1-3/16"	50	2400
7548	3/4" Purple Bang-It™	1-3/16"	50	2400
7549	7/8" Black Bang-It™	1-3/16"	50	2400
7560	Bang-It Deck Driller		1	
7562	13/16" Carbide Hole Saw for 1/4", 3/8" and 1/2"		1	
7564	1-3/16" Carbide Hole Saw for 5/8", 3/4" and 7/8"		1	
7566	Carbide Hole Saw Center Bit		1	

Powers FASTENERS

WOOD-KNOCKER CONCRETE INSERTS



BASE MATERIAL
Concrete, Lightweight Concrete

SIZE RANGE
1/4" to 3/4"

ANCHOR MATERIAL
Carbon Steel and Engineered Plastic

Wood-Knocker Concrete Inserts are installed onto wooden forms used to support a newly poured concrete floor slabs, roof slabs or walls. When the forms are stripped, the color-coded flange is easily seen embedded in the concrete surface allowing attachment of steel threaded rod or threaded bolts in sizes ranging from 1/4" to 3/4" in diameter. The unique six-sided impact plate offers resistance to rotation within the concrete as a steel threaded rod or threaded bolt is being installed.

CAT. NO.	DESCRIPTION	STD. BOX	PALLET QTY.
7550	1/4" Brown Wood Knocker™	200	9600
7552	3/8" Green Wood Knocker™	200	9600
7554	1/2" Yellow Wood Knocker™	200	9600
7556	5/8" Red Wood Knocker™	150	6000
7558	3/4" Purple Wood Knocker™	150	6000
7567	1/2" Coil Thread WK	200	9600
7568	3/4" Coil Thread WK	150	6000

1/2" and 3/4" coil thread Wood-Knockers are available upon request for Framing Applications.

SPIKE™ PRE-EXPANDED ANCHORS

BASE MATERIAL
Concrete, Block

SIZE RANGE
3/16" x 1" to 1/2" x 6-1/2"

ANCHOR MATERIAL
Carbon Steel and Type 316 Stainless Steel

The SPIKE® anchor is a patented, one-piece, tamper-proof anchor for use in concrete block, brick or stone. Several head styles are available and offered in Carbon and Type 31 Stainless Steel. The SPIKE® anchor is formed with an "s" shaped configuration at the working end of the anchor to create an expansion mechanism.
Since the anchor is pre-expanded, there is no secondary tightening operation.

MUSHROOM HEAD TYPE 316 STAINLESS STEEL SPIKE®

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
6602	3/16" x 1"	3/16"	7/8"	100	1000
6603	3/16" x 1-1/4"	3/16"	7/8"	100	1000
6604	3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
6606	3/16" x 2"	3/16"	1-1/4"	100	1000
6623	1/4" x 1-1/4"	1/4"	1"	100	1000
6624	1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
6626	1/4" x 2"	1/4"	1-1/4"	100	1000
6628	1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
6630	1/4" x 3"	1/4"	1-1/4"	100	1000
6646	3/8" x 2"	3/8"	1-3/4"	25	250
6648	3/8" x 2-1/2"	3/8"	1-3/4"	25	250
6650	3/8" x 3"	3/8"	1-3/4"	25	250

The published length is measured from below the head to the end of the anchor.

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MECHANICAL ANCHORS

SPIKE® PRE-EXPANDED ANCHORS

Powers FASTENERS

MUSHROOM HEAD GRADE 8.2 CARBON STEEL SPIKE®

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5502	3/16" x 1"	3/16"	7/8"	100	1000
5503	3/16" x 1-1/4"	3/16"	7/8"	100	1000
5504	3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
5506	3/16" x 2"	3/16"	1-1/4"	100	1000
5508	3/16" x 2-1/2"	3/16"	1-1/4"	100	1000
5510	3/16" x 3"	3/16"	1-1/4"	100	1000
5511	3/16" x 3-1/2"	3/16"	1-1/4"	100	1000
5512	3/16" x 4"	3/16"	1-1/4"	100	500
5522	1/4" x 1"	1/4"	7/8"	100	1000
5523	1/4" x 1-1/4"	1/4"	1"	100	1000
5524	1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
5526	1/4" x 2"	1/4"	1-1/4"	100	1000
5528	1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
5530	1/4" x 3"	1/4"	1-1/4"	100	1000
5531	1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
5532	1/4" x 4"	1/4"	1-1/4"	100	1000
5546	3/8" x 2"	3/8"	1-3/4"	25	250
5548	3/8" x 2-1/2"	3/8"	1-3/4"	25	250
5550	3/8" x 3"	3/8"	1-3/4"	25	250
5551	3/8" x 3-1/2"	3/8"	1-3/4"	25	250
5552	3/8" x 4"	3/8"	1-3/4"	25	250
5554	3/8" x 5"	3/8"	1-3/4"	25	250
5556	3/8" x 6"	3/8"	1-3/4"	25	250
5569	1/2" x 2-3/4"	1/2"	2-1/2"	50	200
5571	1/2" x 3-1/2"	1/2"	2-1/2"	50	150
5572	1/2" x 4"	1/2"	2-1/2"	25	150
5574	1/2" x 5"	1/2"	2-1/2"	25	150
5577	1/2" x 6-1/2"	1/2"	2-1/2"	25	150

The published length is measured from below the head to the end of the anchor.

FLAT HEAD GRADE 8.2 CARBON STEEL SPIKE®

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
5608	3/16" x 2-1/2"	3/16"	1-1/4"	100	1000
5610	3/16" x 3"	3/16"	1-1/4"	100	1000
5612	3/16" x 4"	3/16"	1-1/4"	100	1000
5624	1/4" x 1-1/2"	1/4"	1-1/4"	100	1000
5626	1/4" x 2"	1/4"	1-1/4"	100	1000
5628	1/4" x 2-1/2"	1/4"	1-1/4"	100	1000
5630	1/4" x 3"	1/4"	1-1/4"	100	1000
5631	1/4" x 3-1/2"	1/4"	1-1/4"	100	1000
5632	1/4" x 4"	1/4"	1-1/4"	100	500

The published length is the overall length of the anchor.

SPECIAL APPLICATION SPIKE ANCHORS

ROD HANGING

PIPE SPIKE® GRADE 8.2 CARBON STEEL

CAT. NO.	HEAD SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
3755	1/4"	3/16"	1-1/4"	100	1000
3758	3/8"	1/4"	1-3/4"	50	500

SUSPENDED CEILINGS

TIE-WIRE SPIKE® GRADE 8.2 CARBON STEEL

CAT. NO.	SIZE	DRILL DIA.	MIN. EMBED.	TIE-WIRE HOLE SIZE	STD. BOX	STD. CTN.
3756	3/16"	3/16"	1-1/4"	3/16"	100	500
3759	1/4"	1/4"	1-1/4"	9/32"	100	500

CONCRETE FORMING

FORMING SPIKE® GRADE 8.2 CARBON STEEL

CAT. NO.	ANCHOR SIZE	DRILL DIA.	MIN. EMBED.	STD. BOX	STD. CTN.
3795	3/16" x 1-1/2"	3/16"	1-1/4"	100	1000
3796	3/16" x 2"	3/16"	1-1/4"	100	1000
3797	3/16" x 2-3/4"	3/16"	1-1/4"	100	1000
3794	1/4" x 2-3/4"	1/4"	1-1/4"	100	1000

SPIKE® INSTALLATION TOOLS

While the SPIKE® anchor can easily be installed using a hammer, a specially designed series of drivers and manual tools provide a fast, easy to use method for installing SPIKE® anchors into concrete and masonry materials. The tools allow SPIKE® anchors to be installed in confined areas and prevent damage to the fixture from stray hammer blows.

CAT. NO.	TOOL DESCRIPTION	GUIDE I.D.	STD. BOX
3790	SPIKE® Driver 1000	1/2"	1
3791	SPIKE® Driver 2000	1/2"	1

PIPE SPIKE® TOOL

CAT. NO.	TOOL DESCRIPTION	TIP O.D.	STD. BOX
3760	Pipe SPIKE® Setting Tool	5/16"	1

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MECHANICAL ANCHORS

Powers FASTENERS

Anchor Category		Metal					Plastics							
Product		Wall-Dog	Scru-Lead	Toggle-Bolt	Polly	Legs	Sharkie	Strap-Toggle	Zip-It (Also Available in Zinc)	Zip-Toggle	Poly-Toggle	Pop Toggle	Bantam Plug	Fluted Plastic
Base Material	Concrete	■	■				■				■	□	■	■
	Lightweight Concrete	□	□				■				□	□	□	□
	Hollow Core Plank	■	□	■	□		■	■			□	□	□	□
	Grout-filled Concrete Masonry	■	□				■				□	□	□	□
	Hollow Concrete Masonry	■	□	■	■		□	■			■	□	□	□
	Solid Brick	■	■				■				□	□	■	□
	Hollow Brick	□	□	□			□	□			□	□	□	□
	Stone		□				■				□	□		
	Structural Clay Tile			□	□		□	□			□	□		
	Plywood	■		■	■			□	□		□	■		
	Wallboard /Plaster	■		■	■	■	□	■	■	■	■	■	■	□
Anchor Diameter	No. 4 Screw						■							■
	No. 5 Screw						■							■
	No. 6 Screw		■			■	■		■	■	■	■	■	■
	No. 7 Screw		■			■	■		■		■	■	■	■
	No. 8 Screw		■			■	■		■		■	■	■	■
	No. 9 Screw						■				■	■	■	■
	No. 10 Screw		■				■	■				■	■	■
	No. 12 Screw		■				■	■				■	■	■
	No. 14 Screw		■				■	■					■	■
	No. 16 Screw		■										■	
	No. 18 Screw		■											
	1/8"			■	■									
	3/16"			■	■			■						
	1/4"	■		■	■			■						
	5/16"			■										
	3/8"			■				■						
	1/2"			■				■						
Head Style	Finished (Hex) Head			■	■									
	Round Head			■										
	Flat Head (Countersunk)			■	■									
	Mushroom Head	■		■	■									
	Removable	■							■					
Coating/ Material	Coated / Plated Carbon Steel	■		■	■	■		■						
	Zamac Alloy								■					
	Nylon / Plastic						■	■	■	■	■	■	■	■
	Lead		■											

■ - Suitable

□ - May Be Suitable

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MECHANICAL ANCHORS

WALL-DOG™

Universal Light-Duty Anchor

SIZE RANGE
3/16" Diameter x 1-1/4"Length

BASE MATERIAL
Wallboard (1/2", 5/8" & double wallboard), Plywood, Concrete, Hollow or Grout Filled Block, Brick, Plaster

ANCHOR MATERIAL
Case Hardened Steel

The Powers Wall-Dog™ is the industry's first all steel one-piece screw anchor, which features high-profile threads for easy fastening into wallboard and other masonry base materials. Its deep cutting, corkscrew-like threads provide for smooth entry and a powerful hold, and when removed the Wall-Dog leaves a much smaller hole than toggles or other systems. For fastening into wallboard or wood, no pre-drilling is required. Fastening into concrete, hollow or grout filled block, brick and plaster requires a pre-drilled 3/16" ANSI hole.

WALL-DOG™ LIGHT DUTY ANCHOR - WAFER HEAD

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2277	1/4" x 1-1/2" White Wafer Head	100	500	N/A
2278	1/4" x 2" White Wafer Head	100	500	N/A
2279	1/4" x 2-1/4" White Wafer Head	100	500	N/A
2280	1/4" x 2-1/2" White Wafer Head	100	500	N/A

WALL-DOG™ LIGHT DUTY ANCHOR - OVAL HEAD

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2314	1-1/4"Chrome Oval Head	100	1000	N/A
2328	1-1/4" White Oval Head	100	1000	N/A
2388	1-1/4" Black Oval Head	100	500	N/A
2329	1-1/4" Brass Oval Head	100	500	N/A

WALL-DOG™ LIGHT DUTY ANCHOR - PAN HEAD

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	
2316	1-1/4"Chrome Pan Head	100	1000	N/A
2330	1-1/4" White Pan Head	100	1000	N/A
2273	1-1/2" White Pan Head	100	500	N/A
2274	1-1/2" Bronze Pan Head	100	500	N/A
2275	1-1/2" Zinc Pan Head	100	500	N/A
2276	1-1/2" Black Phosphate Pan Head	100	500	N/A
2286	1-1/4" Black Pan Head	100	500	N/A
2294	1-1/4" Brass Pan Head	100	500	N/A

WALL-DOG™ LIGHT DUTY ANCHOR - COMBO HWH

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CARTON
2265	Wall-Dog Combo HWH Chrome			5000
2271	Wall-Dog Combo HWH Chrome	100	1000	N/A
2281	1-1/4" Chrome Robertson Head			5000
2266	1-1/4" Chrome Robertson Head	100	1000	N/A

WALL-DOG™ KITS

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
2289	Wall-Dog Kit with Screwdriver • 100 CHROME PANHEAD ANCHORS • 1 PHILLIPS® SCREWDRIVER	1	10
2332	Wall-Dog Kit with Drill Bit • 100 CHROME PANHEAD ANCHORS • 3/16" STRAIGHT SHANK BIT	1	10

ZIP-IT™

Wallboard Anchor

BASE MATERIAL
Wallboard

SIZE RANGE
Use with No. 6 or No. 8 screw

ANCHOR MATERIAL
Engineered Nylon or Zamac Alloy

The Zip-It® anchor is a one piece self drilling anchor designed for use in hollow gypsum wallboard for light duty loads. It is available in both engineered nylon and Zamac alloy for use with either a No. 6 or No. 8 screws in 3/8" to 1" wallboard. The Zip-It® Jr. is formed from engineered nylon for use with No. 6 screws in 3/8" to 5/8" wallboard.

CAT. NO.	WALL THICKNESS	DESCRIPTION	STD. BOX	STD. CTN.
NYLON ZIP-IT®				
2345	3/8" to 1"	Std. box, no screws	100	1000
2348	3/8" to 1"	Std. box, No.8 x 1"screws	100	1000
2355	3/8" to 1"	Master ctn., no screws	-	5000
ZINC ZIP-IT®				
2346	3/8" to 1"	Std. box, no screws	100	1000
2349	3/8" to 1"	Std. box, No.8 x 1"screws	100	1000
2356	3/8" to 1"	Master ctn., no screws	-	1000
ZIP-IT® KITS				
2368	Nylon	50 Anchors , No. 8 x 1" screws, & No. 2 Phillips Driver Bit	1	10
2369	Zinc	50 Anchors & No. 8 x 1" screws & No. 2 Phillips Driver Bit	1	10

CAT. NO.	WALL THICKNESS	DESCRIPTION	STD. BOX	STD. CTN.
NYLON ZIP-IT JR.				
2350	3/8"-5/8"	Std. Box (No screws)	100	1000
2351	3/8"-5/8"	Std. Box, No. 6 x 1" screws	100	1000
ZINC ZIP-IT JR.				
2362	3/8"-5/8"	Std. Box (No screws)	100	1000
2364	3/8"-5/8"	Std. Box, No. 6 x 1" screws	100	1000
2363	3/8"-5/8"	Master Ctn. (No screws)	-	5000
ZIP-IT JR. KITS				
2367	Nylon	50 Anchors, No. 6 x 1" screws, and No. 2 Phillips Driver Bit	1	10

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ADHESIVE ANCHORING SELECTION GUIDE

Powers FASTENERS

Anchor Category		Injection Adhesive Anchors		Glass Capsule Adhesive Anchors		Anchor Hardware			Expansion Foam		Bonding Sealant
Product		AC100+ Gold	PE1000+ Gold	Chem-Stud	Hammer-Capsule	Straight Cut Anchor Rod	Chisel Pointed Anchor Rod	Internally Threaded Inserts	PowerFoam	TriggerFoam	PowerStick
Base Material	Concrete	■	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	■	□	□	■	□	□	■	■	■
	Grout-filled Concrete Masonry	■	■	□	□	■	□	□	■	■	■
	Hollow Concrete Masonry	■	■			■			■	■	■
	Solid Brick	■	■	□	□	■	□	□	■	■	■
	Hollow Brick	□	■			■			■	■	■
	Stone	□	□	□	□	■	□	□	■	■	■
	Structural Clay Tile	□	□			■			■	■	■
Anchor Diameter	1/4"					■					
	3/8"	■	■	■	■	■	■	■			
	1/2"	■	■	■	■	■	■	■			
	5/8"	■	■	■	■	■	■	■			
	3/4"	■	■	■	■	■	■	■			
	7/8"	■	■	■	■	■	■				
	1"	■	■	■	■	■	■				
	1 1/4"	■	■	■	□	■	■				
	1 3/8"										
	1 1/2"										
	1 3/4"										
	2"										
Anchor Element	Coated / Plated Carbon Steel					■	■	■			
	Type 304 Stainless Steel					■	■				
Chemistry	Epoxy		■								
	Ester Based Resin	■		■	■						
	Polyurethane								■	■	
	MS Polymer										■

■ - Suitable

□ - May Be Suitable

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ADHESIVE ANCHORING SYSTEMS

AC100+™ GOLD

Powers FASTENERS

Mixing Nozzle Included
WITH EACH CARTRIDGE!

Vinylester Injection Adhesive Anchoring System

PRODUCT DESCRIPTION

The AC100+Gold is a two-component vinylester injection adhesive system. The system includes injection adhesive, mixing nozzles, dispensing tools, steel brushes and handpump equipment (compressed air must be used for larger size hardware). The AC100+Gold has been evaluated for uncracked concrete only and therefore cannot be used in moderate to high seismic design categories. Suitable base materials include normal-weight concrete ranging from 2,500 psi to 8,500psi.

GENERAL APPLICATIONS AND USES

- Structural connections, i.e., beam and column anchorage
- Evaluated for dry, wet and water-filled holes
- Suitable for uncracked concrete applications

FEATURES AND BENEFITS

- Consistent performance in high and low strength concrete
- Recognized for threaded rod and Grade 60 rebar hardware elements
- For use in 2500 to 8500 psi concretes
- Can be installed in a wide range of base material temperatures.
- Evaluated and recognized for freeze/thaw performance
- Evaluated and approved for several long-term and short-term loading tempe ranges (see performance tables for applicable temperature ranges)

APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES) ESR Pending
- Tested in accordance with AC308 criteria
- Evaluated and qualified by an accredited independent testing laboratory for u uncracked concrete
- Strength design method according to AC308 and ACI 318 Appendix D

GUIDE SPECIFICATIONS

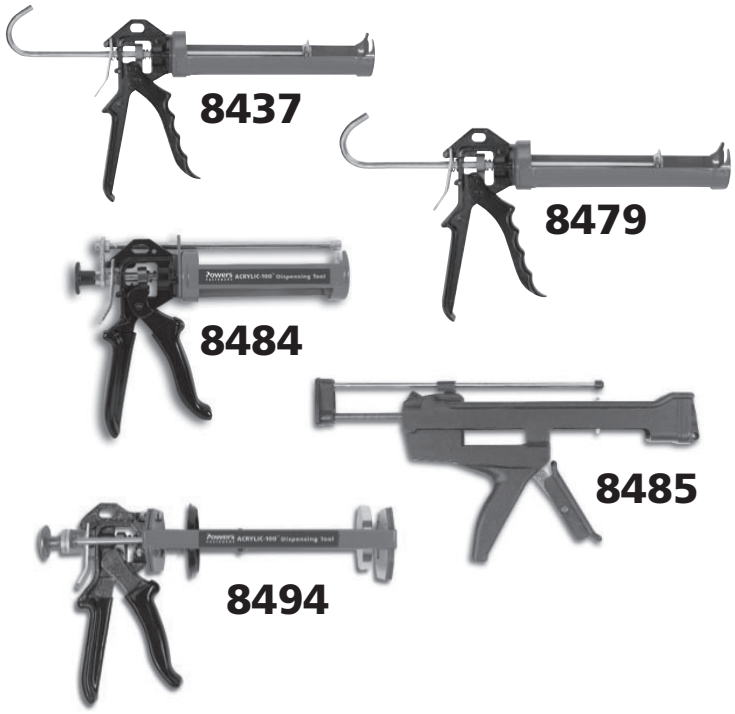
CSI Divisions: 03151-Concrete Anchoring, 04081-Masonry Anchorage and 050 Metal Fastenings. Adhesive anchoring system shall be AC100 Plus as supplied l Fasteners, Inc., Brewster, NY.

AC100+GOLD CARTRIDGES

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.	PALLET
8462SD	5.0 oz. Push-Pak	12	36	-
8478SD	10 oz. Quick Shot	12	36	972
8480SD	8.0 oz. SBS	-	12	576
8486SD	12.0 oz. SBS	-	12	864
8490SD	29.0 oz. SBS	-	6	400

AC100+GOLD MIXING NOZZLES

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8293	Extra Nozzle fo 5 oz., 8 oz., 10., oz. & 12 oz.	1	-
8281	Mixer Nozzle Extension, 8"	1	-



AC100+GOLD MANUAL INJECTION DISPENSING TOOLS

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8437	Manual Caulking Gun One Shot	1	12
8479	High Performance Caulking Gun	1	6
8484	8 oz. Standard All Metal Manual	1	6
8485	8 oz. & 12 oz. High Performance Manual Tool	1	20
8494	29 oz. Std. All Metal Manual Tool	1	1

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ADHESIVE ANCHORING SYSTEMS

PE1000+

Powers FASTENERS

PRODUCT DESCRIPTION

The PE 1000+ is a two-component epoxy injection adhesive system. The system includes injection adhesive, mixing nozzles, dispensing tools, steel brushes and hand-pump equipment (compressed air must be used for larger size hardware). The PE 1000+ has been evaluated for uncracked concrete only and therefore cannot be used in moderate to high seismic design categories. Suitable base materials include normal-weight concrete ranging from 2,500 psi to 8,500psi.

GENERAL APPLICATIONS AND USES

- Structural connections, i.e., beam and column anchorage
- Dowelling applications that don't transfer load to embedment dowels (splice)
- Suited for dry, wet and water-filled holes
- Suitable for uncracked concrete applications only

FREE NOZZLE
WITH EVERY 10, 15 & 20 OZ. CARTRIDGE!

FEATURES AND BENEFITS

- Heavy duty anchoring system
- Consistent performance in high and low strength concrete
- Recognized for threaded rod and Grade 60 rebar hardware elements
- For use in 2500 to 8500 psi concrete
- Can be installed in temperatures down 41oF
- Evaluated and recognized for freeze/thaw performance
- Evaluated and approved for long-term and short-term loading (see performance tables for applicable temperature ranges)
- Recognized for embedments up to 12 diameters

APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES) ESR Pending
- Tested in accordance with AC308 criteria
- Evaluated and qualified by an accredited independent testing laboratory for use in uncracked concrete including wind loading
- Strength Design method according to AC308 and ACI 318 Appendix D

GUIDE SPECIFICATIONS

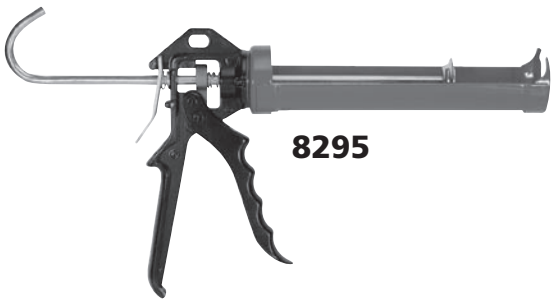
CSI Divisions: 03151-Concrete Anchoring, 04081-Masonry Anchorage and 05090-Metal Fastenings. Adhesive anchoring system shall be AC100+Gold anchors as supplied by Powers Fasteners, Inc., Brewster, NY.

CARTRIDGE

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.	PALLET
500SD	13 oz.	12	36	-

CARTRIDGE SYSTEM NOZZLE

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
7908	Extra Mixing Nozzle for PE1000+	1	-
7919	Mixer Nozzle Extension, 8"	1	-



MANUAL INJECTION DISPENSING TOOL

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN
8295	Heavy Duty Dispensing Tool	1	12

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ADHESIVE ANCHORING SYSTEMS

DISPENSING TOOLS AND ACCESSORIES

Powers FASTENERS

PNEUMATIC INJECTION TOOL DELIVERY SYSTEM

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8413	22 oz. High Performance Pneumatic Tool	1	1
8438	56 oz. High Performance Pneumatic Tool	1	1
8496	30 oz. High Performance Pneumatic Tool	1	1

BATTERY INJECTION DISPENSING TOOLS

CAT. NO.	DESCRIPTION	STD. BOX	STD. CTN.
8442	22 oz. High Performance Battery Tool	1	1
8444	30 oz. High Performance Battery Tool		1

We carry a full assortment of cleaning products, accessories and supplies.

Turn to page 215

REINFORCING BAR INSTALLATION TOOLS

CHEM-STUD REBAR COUPLERS AND DRIVERS

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6533	#3 Coupler	1	10
6534	#4 Coupler	1	5
6536	#6 Coupler	1	10
6537	#7 Coupler	1	10
6538	#8 Coupler	1	10
6539	#9 Coupler	1	10
6540	#10 Coupler	1	1
6590	Spline Driver Extension	1	1
6596	SDS-Max Driver Extension	1	1

INTERNALLY THREADED INSERT TOOLS*

CAT. NO.	SIZE	STD. BOX	STD. CTN.
6862	3/8"	1	1
6863	1/2"	1	1
6864	5/8"	1	1
6865	3/4"	1	1

**Use with drivers for threaded rod.*

Drive-In Type Capsule Adhesive

PRODUCT DESCRIPTION

The Hammer-Capsule System consists of a self contained, single use, two-part glass capsule into which threaded anchor rod or reinforcing bars can be directly driven without the need for a chisel point or spinning action. It is designed for use in the installation of 3/8" through 1" diameter threaded rod in solid concrete and masonry materials. It can also be used to install reinforcing bars.

HAMMER-CAPSULE SELECTION GUIDE

CAT. NO.	SIZE	*DRILL DIA.	MIN. DEPTH	STD. BOX	STD. CTN.
6702	3/8"	7/16"	3-1/2"	10	500
6703	1/2"	9/16"	4-1/4"	10	200
6704	5/8"	11/16"	5"	10	100
6705	3/4"	7/8"	6-5/8"	5	50
6706	7/8"	1"	7"	5	50
6707	1"	1-1/8"	8-1/4"	5	50

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ADHESIVE ANCHORING SYSTEMS

ACCESSORIES

Powers FASTENERS

Adhesive installation accessories are designed to provide a dispenser or mixing nozzle extension when required and to aid in the preparation of the anchor hole.

STEEL BRUSHES

CAT. NO.	DESCRIPTION	STD. BOX
7931	1/2" x 8-1/2" brush	1
7932	3/4" x 8-1/2" brush	1
7933	1" x 12" brush	1
7934	1-1/4" x 13" brush	1
7935	1-1/2" x 13-1/2" brush	1
8284	3/8" / #3 Steel Wire Brush*	1
8285	1/2" / #4 Steel Wire Brush*	1
8286	5/8" / #5 Steel Wire Brush*	1
8287	3/4" / #6 Steel Wire Brush*	1
8288	7/8" / #7 Steel Wire Brush*	1
8289	1" / #8 Steel Wire Brush*	1
8290	1-1/4" Steel Wire Brush*	1
8291	#10 Steel Wire Brush*	1
8293	SDS Plus Adapter for Steel Brush*	1
8292	Brush Extension, 12"*	1

HAND PUMP

CAT. NO.	DESCRIPTION	STD. BOX
8280	Hand Pump / Dust Blower 25 oz.*	1
8282	Air Nozzle with Extension*	1

* Appropriate accessory for use with AC100+Gold and PE1000+Gold

Anchor seal plugs help retain the adhesive in the anchor hole and hold the anchor rod centered in the hole until the adhesive sets. The plugs are described by the anchor rod diameter they are used with.

CAT. NO.	DESCRIPTION	PLUG DEPTH	HOLE SIZE	STD. BAG
7936	3/8" Anchor Seal Plug	3/8"	7/16"	25
7937	1/2" Anchor Seal Plug	1/2"	9/16"	25

For additional sizes call for availability.

Screen tubes are made from a 300 series stainless steel. The nominal diameter of the screen listed indicates the matching rod diameter.

CAT. NO.	DESCRIPTION	DRILL DIA.	STD. CTN.
7862	1/4" x 6" Screen Tube †	3/8"	25
7864	1/4" x 8" Screen Tube †	3/8"	25
7961	3/8" x 3-1/2" Screen Tube †	1/2"	25
7962	3/8" x 6" Screen Tube †	1/2"	25
7963	3/8" x 8" Screen Tube †	1/2"	25
7964	3/8" x 10" Screen Tube †	1/2"	25
7959	3/8" x 12" Screen Tube †	1/2"	25
7965	1/2" x 3-1/2" Screen Tube	5/8"	25
7966	1/2" x 6" Screen Tube	5/8"	25
7967	1/2" x 8" Screen Tube †	5/8"	25
7968	1/2" x 10" Screen Tube †	5/8"	25
7969	5/8" x 4-1/2" Screen Tube	3/4"	20
7970	5/8" x 6" Screen Tube	3/4"	20
7971	5/8" x 8" Screen Tube †	3/4"	20
7972	5/8" x 10" Screen Tube †	3/4"	20
7973	3/4" x 6" Screen Tube	7/8"	10
7977	3/4" x 8" Screen Tube	7/8"	10
7974	3/4" x 10" Screen Tube	7/8"	10
7975	3/4" x 13" Screen Tube	7/8"	10
7865	15/16" x 8" Screen Tube	1"	10
7867	15/16" x 13" Screen Tube	1"	10
7869	15/16" x 17" Screen Tube †	1"	10
7955	Adhesive Shear Tube (steel sleeve)	-	10

† Includes extension tubing

The nominal diameter of the screen listed indicate the matching rod diameter. NOTE: Hole size required for plastic screen tubes are different than that for the stainless steel tubes.

CAT. NO.	DESCRIPTION	DRILL DIA.	STD. CTN
8474	3/8" x 3-1/2" Screen Tube	9/16"	25
8475	1/2" x 3-1/4" Screen Tube	5/8"	25
8476	1/2"x 4" Screen Tube	5/8"	25

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POWDER ACTUATED SELECTION GUIDE

Powers FASTENERS

Pin Category		0.300" Head Drive Pin						8mm Head Drive Pin					Threaded Studs		Heavy Duty Pins	
Product		.300" Head Drive Pin		.300" Head Drive Pin with Top Hat	.300" Head Drive Pin with Washers		.300" Head Step Shank Drive Pins	8mm Head Drive Pin		8mm Head Drive Pin with Top Hat	8mm Head Drive Pin with 1" Washers		1/4" – 20 Threaded Stud	3/8" – 16 Threaded Stud	3/8" Head Drive Pin	10mm Head Drive Pin
Pin Dimensions	Shank Length	1/2" to 1 1/2"	1 3/4" to 3"	1/2" to 1"	3/4" to 1 1/2"	2" to 3"	3/4" to 1"	5/8" to 1 1/2"	1 5/8" to 2 7/8"	5/8" to 1"	1" to 1 1/2"	2" to 2 7/8"	1/2" to 1 1/4"	3/4" to 1 1/4"	1" to 3 1/8"	3/4" to 3 1/4"
	Shank Diameter	0.145"					.145/.130"	0.145"					0.145"	0.205"	.172", .216/.188"	0.177"
Base Material	Concrete	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Lightweight Concrete	■	■	■	■	■		■	■	■	■	■	■	■	■	■
	Grout-filled Concrete Masonry	■	□	□	■	□		■	□	□	□	□	□	□	□	□
	Steel	■		■	■		■	■		■	■		■	■	■	■
Load Power Level	Gray – Power Level 1															
	Brown – Power Level 2															
	Green – Power Level 3															
	Yellow – Power Level 4															
	Red – Power Level 5															
	Purple/Black – Power Level 6															
Powers Tools	P3600													■		■
	PA351	□		□	□		□	■		□	□					
	P3801												□	■	■	■
	P3500 / PA3500	■	■	■	■	■	■	■	■	■	■	■	■			
	P35s	■		■	■		■	■		■	■					
	P7201	■		■	■		■	■		■	■		■			
	P2201	■	■	■	■	■	■	■	■	■	■	■	■			
	P1000	■	■	■	■	■	■	■	■	■	■	■	■			
	Hammer Drive Tool															
Other Tools	721	■		■	■		■	■		■	■		■			
	M70	■	■	■	■	■	■	■	■	■	■	■	■			
	LADD (L1600)															
	D45	■	■	■	■	■	■	■	■	■	■	■	■			
	D60 / D60L	■	■	■	■	■	■	■	■	■	■	■	■			
	MD380													■	■	
	SA270	■	■	■	■	■	■	■	■	■	■	■	■			
	Cobra	■	■	■	■	■	■	■	■	■	■	■	■			
	Viper	■		■	■			■		■	■		■			
	DX E37	■		■	■		■	■		■	■		■			
	DX E72	■	■	■	■	■	■	■	■	■	■	■	■			
	DX400	■	■	■	■	■	■	■	■	■	■	■	■			
	DX600N													■	■	□
	DX35	■		■	■		■	■		■	■		■			
	DX350 / DX351	■	■	■	■	■	■	■	■	■	■	■	■			
	DX36M	■	■	■	■	■	■	■	■	■	■	■	■			
	DX 450															
	DX451	■	■	■	■	■	■	■	■	■	■	■	■	■	■	
	DXA40	■		■	■		■	■		■	■		■			■
	DXA41	□	□	□	□	□	□	□	□	□	□	□	□	■	■	■
	DX100	■	■	■	■	■	■	■	■	■	■		■			
	DX200	■	■	■	■	■	■	■	■	■	■		■			
	DX460	□		□	□		□	■		□	□					

■ - Suitable □ - May Be Suitable

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POWDER ACTUATED SELECTION GUIDE

Powers FASTENERS

Pin Category		Ballistic Point Pin			Specialty Fasteners		Clips and Accessories				Powder Actuated Loads									
Product		Ballistic Point Pin	Ballistic Point Step Shank Pin		Forming Pin	Hammer Drive Pin	Ceiling Clip Assemblies (.300", 8mm & Ballistic Point)	Ceiling Clip Assemblies Ladd Tool (L1600)	BX – EMT Conduit Clip Assemblies (.300" & 8mm)	Rebar Basket Clip Assemblies (8mm)	.22 Caliber "A" Single Load	.22 Caliber Single Loads Ladd Tool (L1600)	.25 Caliber Disk Load	.25 Caliber Disk Loads (Red)	.25 Caliber Single Load	.27 Caliber Single Loads	.27 Caliber Single Long Loads	.25 Caliber 10 Load Strip	.27 Caliber 10 Load Strip (Purple/Black)	.27 Caliber Safety Strip
Pin Dimensions	Shank Length	1/2" to 7/8"	1 1/4"	1 7/8"	1 3/4" to 2 1/2"	3/4" to 3"	1" to 1 1/4"	1 1/2"	1" to 1 1/4"	1 1/4" to 2 7/8"										
	Shank Diameter	0.150"	0.181"/0.150"		0.145"	0.140"	0.145"	0.155"	0.145"	0.145"										
Base Material	Concrete	■	■	■	■	■	■	■	■	■										
	Lightweight Concrete	■	■	■	■	■		■	■	■										
	Grout-filled Concrete Masonry	□	□		□	□	□		□	□										
	Steel	■	■	□			■	■	■	□										
Load Power Level	Gray – Power Level 1										■		■							
	Brown – Power Level 2										■		■			■				■
	Green – Power Level 3										■	■	■		■	■	■	■		■
	Yellow – Power Level 4										■	■	■		■	■	■	■		■
	Red – Power Level 5											■		■	■	■	■	■		■
	Purple/Black – Power Level 6											■			■	■	■		■	
Powers Tools	P3600																		■	■
	PA351																			■
	P3801																■	■		
	P3500 / PA3500	■	■	■	■		■		■	■										■
	P35s	■	■				■		■									■		
	P7201	■	■				■		■		■									
	P2201	■	■	■	■		■		■	■	■									
	P1000	■	■	■	■		■		■	■	■									
	Hammer Drive Tool					■														
Other Tools	721	■	■				■		■		■									
	M70	■	■	■	■		■		■	■	■									
	LADD (L1600)							■				■								
	D45	■	■	■	■		■		■	■			■	■						
	D60 / D60L	■	■	■	■		■		■	■			■							
	MD380																	■		
	SA270	■	■	■	■		■		■	■										■
	Cobra	■	■	■	■		■		■	■										■
	Viper		■				■		■											■
	DX E37	■	■				■		■		■									
	DX E72	■	■	■	■		■		■	■	■									
	DX400		■	■	■		■		■	■						■				
	DX600N	■															■			
	DX35	■	■				■		■									■		
	DX350 / DX351	■	■	■	■		■		■	■										■
	DX36M	■	■	■	■		■		■	■										■
	DX 450																		■	■
	DX451	■	■	■															■	■
	DXA40	■	■	■			■		■											■
	DXA41	■	■	■	■		■		■	■										■
	DX100	■	■	■	■		■		■	■					■					
	DX200	■	■	■	■		■		■	■					■					
	DX460																			■

■ - Suitable □ - May Be Suitable

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POWDER ACTUATED TOOLS

Powers FASTENERS

P3500™

SIZE RANGE

1/2" to 3" pin lengths, .27 caliber

PRODUCT DESCRIPTION

The PA3500™ is a modified version of the P3500 that includes a power adjuster, allowing the operator to effectively decrease the power level of the load being used. A red load can be toned down to the level of a green.

POWER ADJUSTER SETTINGS		
1	3	6
Minimum Power	Medium Power	Maximum Power

TECHNICAL DATA

TOOL BODY	PIN LENGTH
Precision Cast Aluminum	1/2" to 3" Total Length
TOOL LENGTH	**LOAD TYPE**
13-5/8"	.27 Caliber in a 10 Load Strip
TOOL WEIGHT	**POWER LEVEL**
5 lbs.	Brown (2), Green (3), Yellow (4), Red (5)

PIN TYPE

Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud

TYPICAL APPLICATIONS

TRADE	APPLICATION
Acoustical	Ceiling clip assemblies
Drywall	Metal track, door frames
Forming	Concrete forms, basket clips, forming pins
Electrical	Boxes, conduit clip assemblies
Mechanical	Duct straps
Residential	Sill plates

SELECTION GUIDE

CAT NO.	DESCRIPTION	STD. CTN.
52019	PA3500 Powder Tool (Deluxe Kit)	1
52025	PA3500 Powder Tool (Blister Pack)	1
52103	PA Piston Flat End with Ring	1
52108	Guide 2/F-3	1
52110	Base Plate 2/S-13	1
52112	Piston Stop	1
52120	Shear Clip	1
52122	Steel Annular Ball	1
FOR APPLICATIONS IN TIGHT AREAS, A LIMITED ACCESS BASE PLATE/GUIDE IS AVAILABLE.		
52114	Guide 2/F-4 Limited Access	1
52116	Baseplate 2/F-14-1 Limited Access	1

POLE TOOLS FOR OVERHEAD ATTACHMENTS

CAT NO.	DESCRIPTION	STD. CTN.
50065	6' Di-Electric Pole Tool	1
50066	8' Di-Electric Pole Tool	1
52041	6' Smacker Pole Tool (extension available)	1
52045	3' Smacker Pole Extension	1

P35s™

SIZE RANGE

1/2" to 1-1/2" pin lengths, .25 caliber

PRODUCT DESCRIPTION

The P35s™ is specially designed for acoustical and drywall contractors. It is a low velocity, semi-automatic, tool which can be used to install .300 head drive pins, 8mm head drive pins and 1/4"-20 threaded studs up to 1-1/2" in total length. The P35s™ is designed for high speed and repetitive volume applications. The standard version of the tool is supplied with a flat end piston and a full size baseplate/guide. A limited access baseplate/guide assembly is also available.

TECHNICAL DATA

TOOL BODY	PIN LENGTH
Precision Cast Aluminum	1/2" to 1-1/2" Total Length
TOOL LENGTH	**LOAD TYPE**
11-1/4"	.25 Caliber in a 10 Load Strip
TOOL WEIGHT	**POWER LEVEL**
4.25 lbs.	Green (3), Yellow (4), Red (5)

PIN TYPE

Ballistic Point Drive Pin, .300 Head Drive Pin, 8mm Head Drive Pin, 1/4"-20 Threaded Stud

TYPICAL APPLICATIONS

TRADE	APPLICATION
Acoustical	Ceiling clip assemblies
Drywall	Metal track, door frames
Electrical	Boxes, conduit clip assemblies
Mechanical	Duct straps

SELECTION GUIDE

CAT NO.	DESCRIPTION	STD. CTN.
52002	P35s Tool (Deluxe Kit)	1
52023	P35s Tool (Blister Pack)	1
52200	Piston Standard 21/SDF	1
52204	Guide 21/F3-1	1
52206	Baseplate 21/S1	1

Tool Operation

Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3.

For complete tool operation details contact your Newman represenative for training information.

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POWDER ACTUATED TOOLS AND LOADS

Powers FASTENERS

P3801™

SIZE RANGE

1/4" to 3/8" Threaded Studs and 3/8" Headed Drive Pins

PRODUCT DESCRIPTION

Powerful heavy-duty powder actuated tool,for installing 3/8"threaded studs into concrete and steel. This tool features an easy load ejector and has a low re-coil for greater operator comfort. The P3801 is independent of any external power source saving you time and money.

TECHNICAL DATA

TOOL BODY	PIN LENGTH
Precision Cast Aluminum	1/2" to 3" Total Length
TOOL LENGTH	**LOAD TYPE**
14"	.27 Caliber Short and Long
TOOL WEIGHT	**POWER LEVEL**
7 lbs.	Red (5), Purple (6)
PIN TYPE	
1/4" to 3/8" threaded studs and 3/8" Headed Drive Pins	

TYPICAL APPLICATIONS

Hanging sprinkler pipe
Heavy duty applications for steel and concrete
Electrical
Tele-communications

SELECTION GUIDE

CAT NO.	DESCRIPTION	STD. CTN.
52008	P3801 Tool (Deluxe Kit)	1
52402	Nose Piece	1
52404	Base Plate	1
52415	Shield 1/4"	1
52417	Shield 3/8"	1
52420	Piston Guide 1/4"	1
52422	Piston Guide 3/8"	1
52426	Piston w/Ring 1/4"	1
52428	Piston w/Ring 3/8"	1

Tool Operation

Powder actuated tools may be used only by properly trained and licensed operators as described in ANSI Standard A 10.3.

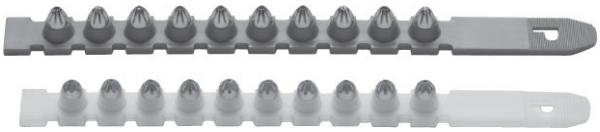
For complete tool operation details contact your Newman represenative for training information.

POWER LOADS - LONG

.27 CALIBER LONG LOADS FOR POWERS P3801, RAMSET® MD380 AND HILTI® DX600N

CAT NO.	DESCRIPTION	STD. BOX	STD. CTN.	MASTER CTN.
50608*	Green, .27 long	100	2500	-
50612	Red, .27 long	100	2500	-
50614	Purple, .27 long	100	2500	80,000

** Discontinued item once current stock exhausted.*



SAFETY STRIPS

.27 CALIBER SAFETY STRIP® FOR POWERS P3500, PA3500, PA351, P3600, RAMSET® SA270, VIPER, HILTI® DX350, DX36M, DX451 AND DX460

The safety strip is molded in a special length to provide a visual indication that the tool is loaded.

CAT NO.	DESCRIPTION	STD. BOX	STD CTN.
50620	Brown, .27 Safety Strip®	100	1000
50622	Green, .27 Safety Strip®	100	1000
50626	Yellow, .27 Safety Strip®	100	1000
50630	Red, .27 Safety Strip®	100	1000

MASTER PACK

.27 CALIBER SAFETY STRIP®

CAT NO.	DESCRIPTION	STD. BOX	MASTER CTN.
50624	Green, .27 Safety Strip®	1000	10000
50628	Yellow, .27 Safety Strip®	1000	10000
50632	Red, .27 Safety Strip®	1000	10000

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Hilti® is a registered trademark of Hilti, Inc.

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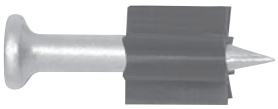
POWDER ACTUATED FASTENERS

Powers FASTENERS



50026
.300 HEAD DRIVE PINS

Works with Model P3500 featured on page 348. Also works with the following Powers Fasteners Tools not featured in this catalog: PA351, PA3500, 9355, P7201, P2201 and P1000.

STANDARD PINS

Drive pins with a .300 diameter head are designed for permanently fastening a fixture to concrete, some types of masonry and A36 structural steel.
Drive pins are manufactured with a 0.143" diameter shank in various lengths. Knurled shank designs are available to increase performance in steel base materials. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.

.300 HEAD DRIVE PINS

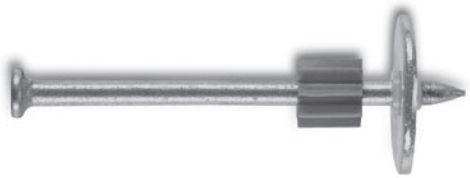
CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50012	1/2" (knurled)	.300	.145	100	5000
50016	5/8" (knurled)	.300	.145	100	5000
50022	3/4"	.300	.145	100	5000
50023	3/4" Black	.300	.145	100	5000
50026	1"	.300	.145	100	5000
50030*	1-1/8"	.300	.145	100	1000
50032	1-1/4"	.300	.145	100	1000
50034	1-1/2"	.300	.145	100	1000
50038	2"	.300	.145	100	1000
50040	2-1/4"	.300	.145	100	1000
50042*	2-3/8"	.300	.145	100	1000
50044	2-1/2"	.300	.145	100	1000
50046	2-3/4"	.300	.145	100	1000
50048	3"	.300	.145	100	1000

** Discontinued item once current stock exhausted.*

MASTER PACK

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50980	1/2" knurled	.300	.145	1000	5000
51041	3/4" Black Pins	.300	.145	1000	5000
53300	5/8" knurled	.300	.145	1000	5000
53400*	5/8" knr.Top Hat	.300	.145	1000	5000
51040	3/4"	.300	.145	1000	5000
51100	1"	.300	.145	1000	5000
51160	1-1/4"	.300	.145	1000	5000
51340	1/2"knr.Top Hat	.300	.145	1000	5000
51400	3/4" Top Hat	.300	.145	1000	5000
51520	1" Top Hat	.300	.145	1000	5000

** Discontinued item once current stock exhausted.*



50096
.300 HEAD DRIVE PINS WITH WASHER

WASHERED PINS

To provide resistance to pullover, these pins are available with preassembled 14 gage (0.075") metal washers in various diameters. The insulation washer has a thickness of 0.035".

.300 HEAD DRIVE PINS WITH 3/4" WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50070	3/4"	.300	.145	100	1000
50080	2-1/2"	.300	.145	100	1000

.300 HEAD DRIVE PINS WITH 7/8" WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50090	1"	.300	.145	100	1000
50092	1-1/4"	.300	.145	100	1000
50094	1-1/2"	.300	.145	100	1000
50096	2"	.300	.145	100	1000
50098	2-1/2"	.300	.145	100	1000
50100	3"	.300	.145	100	1000

.300 HEAD DRIVE PINS WITH 1" WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50108	1-1/4"	.300	.145	100	1000
50110	1-1/2"	.300	.145	100	1000
50112	2"	.300	.145	100	1000
50114	2-1/2"	.300	.145	100	1000
50116	3"	.300	.145	100	1000

50122
.300 HEAD DRIVE PINS WITH INSULATION WASHER

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50122	1-1/2"	.300	.145	100	1000
50126	2-1/2"	.300	.145	50	500

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POWDER ACTUATED FASTENERS

Powers FASTENERS

BALLISTIC POINT™ DRIVE PINS

Power Point-type Fasteners

Premium drive pins with a .300 diameter head have a specially designed point to allow more consistent penetration into harder base materials. Will reduce failures in dense concrete and steel. Drive Pins are manufactured with a 0.150" diameter straight and step shank in various lengths. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation.

For use with Model PA3500 featured on page 348. Also works with the following Powers Models not featured in this catalog: PA351, P3500, 935S, P7201, P2201 and P1000.

BALLISTIC POINT DRIVE PINS (BLACK)

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50052	1/2"	.300	.150	100	1000
50054	3/4"	.300	.150	100	1000

BALLISTIC POINT STEP SHANK PINS

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50056	1-1/4"	.300	.181/.150	100	5000
50057	1-7/8"	.300	.181/.150	100	1000

THREADED STUDS

Threaded studs are available in 1/4"-20 and 3/8"-16 thread diameters with a variety of thread and shank lengths for use in concrete, some types of masonry, and A36 structural steel. They are used for applications where it may be desirable to remove the fixture, where shimming may be required.
The shank diameter for the threaded stud is 0.145" for the 1/4"-20 diameter and 0.205" for the 3/8"-16 diameter. Knurled shank designs are available to increase performance in steel base materials. A plastic flute is mounted over the point to retain the drive pin in the fastener guide of the tool providing guidance during the driving operation. On the 1/4"-20 threaded studs, a plastic cap is also provided to protect the threads of the fastener during the driving process.

For use with Model P3500 featured on page 348 and Model P3801 featured on page 349. Also works with the following Powers Models not featured in this catalog: PA351, PA3500, 935S, P7201, P2201 and P1000.

1/4" -20 THREADED STUDS

CAT. NO.	THREAD LENGTH	SHANK LENGTH	THREAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50322	3/4"	1/2"K	1/4"	.145	100	1000
50326	3/4"	3/4"	1/4"	.145	100	1000
50328	1/2"	1"	1/4"	.145	100	1000
50330	3/4"	1"	1/4"	.145	100	1000
50336	3/4"	1-1/4"	1/4"	.145	100	1000
50338	1-1/4"	1-1/4"	1/4"	.145	100	1000

K=Knurled

For use with Model P3801 featured on page 349. Also works with Powers Model P3600 not featured in this catalog.

3/8"-16 THREADED STUDS

CAT. NO.	THREAD LENGTH	SHANK LENGTH	THREAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50340†	1-1/4"	3/4" K	3/8"	.205	100	1000
50342	1-1/4"	1"	3/8"	.205	100	1000
50344†	1-1/4"	1-1/4"	3/8"	.205	100	1000

K=Knurled

† Factory Mutual Research Corp. approved for Pipe Hanger Components

Think Safety First... WE DO!

Our Safety Section Begins on Page 1.

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POWDER ACTUATED FASTENER ACCESSORIES

Powers FASTENERS

CEILING CLIP ASSEMBLIES

Assemblies are combinations of drive pins and stamped steel clips designed for specific applications. The pins are held within the clip using either a dome mechanism or a metal top hat.

For applications suspending acoustical ceiling systems or light fixtures, several styles of angled clips are pre-mounted onto pins. For use with Powers Model P3500 featured on page 348 and PA351 and P1000 not featured in this catalog.

50363
.300 HEAD PIN
WITH CEILING CLIIP

50272
8mm HEAD PIN
WITH CEILING CLIIP

.300 HEAD PINS WITH CEILING CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	WIRE HOLE	STD. BOX	STD. CTN.
50363††	1"	.300	.145	0.278"	100	1000
50364	1"	.300	.145	0.278"	100	1000
50368†	1-1/8"	.300	.145	0.278"	100	1000
50370	1-1/4"	.300	.145	0.278"	100	1000

† Economy Clip
†† Ceiling clip without dome

8MM DRIVE HEAD PINS WITH CEILING CLIPS

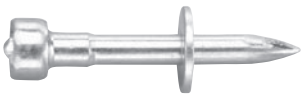
CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	WIRE HOLE	STD. BOX	STD. CTN.
50272	27mm w/CC	8mm	.145	0.278"	100	1000
50274	32mm w/CC	8mm	.145	0.278"	100	1000

10MM DRIVE HEAD PIN WITH CEILING CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50206	1/4" with ceiling clip	10mm	.177	100	1000

BALLISTIC POINT DRIVE PIN WITH CEILING CLIP

CAT. NO.	SHANK LENGTH	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50058	1-1/4" with ceiling clip	.300	.181/.150	100	1000



PRE-ASSEMBLED PIN AND CLIP FOR LADD TOOL (L1600)

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	WIRE HOLE	STD. BOX	STD. CTN.
50438	Pre-assembled Pin Clip	.310	.155	0.278"	100	1000

BX & EMT CONDUIT CLIP ASSEMBLIES

For the electrical trade, BX and EMT conduit clips are provided in various sizes for attaching conduit base materials.

For use with Powers Model P3500 featured on page 348 and PA351 and P1000 not featured in this catalog.

.300 HEAD DRIVE PINS WITH BX CABLE CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50150	1" (BX)	.300	.145	100	1000
50152	1-1/4" (BX)	.300	.145	100	1000

.300 HEAD DRIVE PINS WITH EMT CONDUIT CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA.	STD. BOX	STD. CTN.
50382	1/2" EMT 1" pin	.300	.145	100	1000
50384	3/4" EMT 1-1/4"	.300	.145	100	1000
50385	3/4" EMT 1" pin TH	.300	.145	100	1000
50386	3/4" EMT 1" pin	.300	.145	100	1000
50388	1" EMT 1" pin TH	.300	.145	25	250

8MM DIAMETER HEAD DRIVE PINS WITH EMT CONDUIT CLIPS

CAT. NO.	DESCRIPTION	HEAD DIA.	SHANK DIA	STD. BOX	STD. CTN.
50276	27mm TH w/ 1/2" EMT	8mm	.145	100	1000
50278	27mm TH w/ 3/4" EMT	8mm	.145	100	500
50280	27mm TH w/ 1" EMT	8mm	.145	25	250

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POWDER FASTENING SYSTEMS

Ramset POWDER FASTENING SYSTEMS

D60
POWDER ACTUATED FASTENING TOOL

Patented 10-shot disc loads advance automatically, eliminating wasted loads.

Semi-Automatic D60 2-3/8" Pin Capacity (2-1/2" w/washer)

- **QUICK POWER ADJUSTMENT** gives eight levels of power with only one load level for a variety of applications
- **RUGGED POLYAMIDE HOUSING** reduces heat transfer and maximizes operator comfort
- **SOFT, RECOIL-ABSORBING HANDLE** for increased operator comfort.
- **RAMSET DISC TECHNOLOGY** loads only advance after firing - eliminates 10-20% of load waste
- **5-YEAR WARRANTY**

SPECIFICATIONS

- .25 caliber, 10-shot disc loads 2 (Brown), 3 (Green), 4 (Yellow)
- Weight: 4.9 pounds
- Length: 12-1/2 inches
- Muzzle Bushing O.D.: 3/4"
- Pin Capacity: 2-3/8" (3" w/washer-D60L)
- Complies with OSHA and ANSI standards

D45A
POWDER ACTUATED FASTENING TOOL

Semi-automatic 2" Pin Capacity (2-1/2" w/washer)

- **MOST DURABLE, POWERFUL POWDER TOOL** designed for high-production use in steel and concrete
- **HEAVY-DUTY BUFFER SYSTEM** prevents front-end tool damage for longer tool life
- **WEEKLY CLEANING, NOT DAILY CLEANING** saves time and reduces labor costs
- **QUIETER THAN STANDARD POWDER TOOL** allows you to work in occupied buildings
- **33% FASTER THAN SEMI-AUTOMATIC TOOLS** saves time and labor costs
- **RAMSET DISC TECHNOLOGY** loads only advance after firing - eliminates 10-20% of load waste
- **5-YEAR WARRANTY**

SPECIFICATIONS

- .25 caliber, 10-shot disc loads 2 (Brown), 3 (Green), 4 (Yellow), 5 (Red)
- Weight: 4-1/2 pounds • Height: 7-1/2 inches
- Length: 15 inches
- Muzzle Bushing O.D.: 5⁄8"
- Pin Capacity: 2" or 2-1/2" with washer
- Complies with OSHA and ANSI standards

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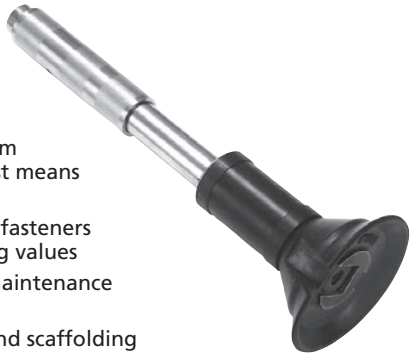
POWDER FASTENING SYSTEMS

Ramset POWDER FASTENING SYSTEMS

L1600 OVERHEAD POWDER FASTENING SYSTEM

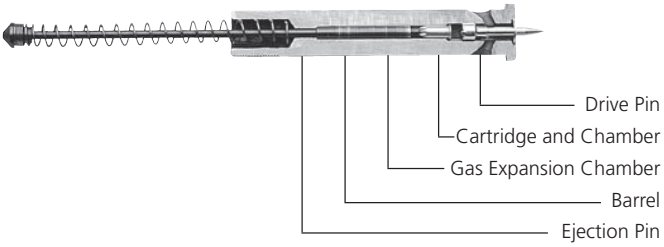
Single Shot .22 Caliber Crimped Loads



- Powerful — great for fast, positive attachment of hanger wire to concrete and steel
- No trigger mechanism — no cable to adjust means less down time
- Install thicker shank fasteners — for higher holding values
- Easy and fast field maintenance — saves labor costs
- Eliminates ladders and scaffolding — speeds up job; saves money
- Spent loads eject easily — increases productivity

Specifications

- .22 caliber crimped loads — 4 (Yellow), 5 (Red)
- Weight: 2.8 pounds
- Height: 13"



CLIP / PIN ASSEMBLY

- Preassembled clip and pin speeds installation and reduces labor cost
- Sturdiest clip on the market for improved pullover performance
- Accurate, positive attachment of hanger wire from concrete ceilings, steel
- Elongated wire hole allows for freedom of movement of wire loop
- 9/32" hole allows pencil rod to be suspended

Tool	Fastener	Loads	Most common application
L1600	L652	674 Yellow 675 Red	Hanger clip assembly for hard concrete

VIPER POWDER ACTUATED TOOL

Semi-Automatic
30% Faster Overhead Attachment

- No cycling eliminates wasted loads—work faster and save money
- Super quiet—work in occupied buildings without disturbing occupants
- Weighs just 3 pounds—4 pounds lighter than other manufacturer's tool for more productivity
- Easy to use—just position, then push to fire. No trigger. No broken cables. No pinched fingers
- Durable ringless piston with 1-1/2" overdrive—prevents piston from breaking in thick fire-proofing material
- Easy to maintain—no tools needed for fast, daily cleaning
- Long, narrow housing—allows fastening in hard-to-reach areas
- Telescoping poles reduce expensive lift basket rentals
- 5-Year Warranty

ITW Ramset/Red Head knows the overhead marketplace. That's why we have a complete line of powder actuated tools for contractors, including the Viper™, the only custom-designed semi-automatic powder actuated tool for overhead angle clip fastening.

CEILING CLIPS

Part No.	Description
027VIPER	Ramset Ceiling Tool
027VPOL6	Ramset 6' Viper Extension Pole
027VPOL8	Ramset 8' Viper Extension Pole
027VPOL10	Ramset 10' Viper Extension Pole
027TVPOL612	Ramset 6'-12' Telescoping Viper Pole
027TVPOL618	Ramset 6'-18' Telescoping Viper Pole
027VIPER212	Ramset 2-1/2" Nosepiece for Viper

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