

Accessory	Description	T3ss	Viper, Rocket, Cobra and D60
		Gas Fasteners	Powder Fasteners
3/8" ONE HOLE STRAP	Conduit, EMT, MC clad, BX	38HSMP034	38HSSS10
1/2" ONE HOLE STRAP		12HSMP034	12HSSS10
3/4" ONE HOLE STRAP		34HSMP034	34HSSS10
1" ONE HOLE STRAP		10HSMP034	10HSSS10
1-1/4" ONE HOLE STRAP		114HSMO034	---
1/2" CONDUIT CLAMP		12CCMP034L	12CCSS10L
3/4" CONDUIT CLAMP		34CCMP034L	34CCSS10L
1/4" ROD HANGER	Designed for overhead applications. Ceiling fixture attachments, conduit drop supports. 1/4-20 rod.	14TRHMP034	14TRHSS10
3/8" ROD HANGER	Designed for overhead applications. Ceiling fixture attachments, conduit drop supports. 3/8-16 rod.	38TRHMP034	38TRHSS10
CEILING CLIP	Designed for overhead applications. Used for pencil rod, conduit drop supports, acoustical attachments, suspended ceilings, fluorescent light fixtures, and other.	34CLIP	SPC78, SPC114 SDC100, SDC125
TOP HAT PIN	Junction box attachment, HVAC control boxes, any removable supports.	MP034TH	SP58TH, 1906, 1908
TIE STRAP HOLDER	Temporary lighting, data comm, low voltage.	TSHMP034	---
1/4-20 THREADED STUD	Junction box attachment, HVAC control boxes, any removable supports.	14STUD	1623WK, 1623W
2" BRIDLE RING	Pre-assembled fastener made specifically for low voltage, alarm wire and light duty cabling.	BR2	---
BR2S	Same as BR2 without the preassembled fastener.	BR200	BR200
		All POWDER Fasteners use the 1" Premium Pin	
Mechanical Pins washered pins			
M012 - 1/2"	1/2" pin specifically designed for fastening into hard steel.	•	---
M034 - 3/4"	Used for fastening sheet metal to steel, attaching block, pan deck, insulated fireproofing and most grades of concrete.	•	---
M100 - 1"			---
M034BB - 3/4"	Premium step-shank pin with ballistic "bunker buster" profile for hard concrete applications.	•	---
M100BB - 1"	1" PowerPoint Step shank pin used when maximum holding strength is required. Also used in powder fasteners.	•	•

Gas fasteners and pin data can be found on page 7; powder fasteners and pin data can be found on pages 16-17.

POWDER PINS SELECTION CHART			
POWERPOINT SHORT PINS		DRIVE PINS	
SP12 - 1/2"	Electrical boxes, straps, J-hooks, wire mold, etc., fastened to HEAVY steel 1/4" and thicker.	1503K - 1/2" (KNURLED)	Electrical boxes, straps, J-hooks, wire mold, etc., fastened to 1/4" steel and under.
SP58 - 5/8"		1506 - 3/4"	
SP34 - 3/4"	Electrical boxes, straps, J-hooks, wire mold, etc., fastened to HEAVY concrete 4000psi and up.	1506B* - 3/4"	Electrical boxes, straps, J-hooks, wire mold, etc., fastened to normal concrete.
SP78 - 7/8"	Electrical boxes, straps, J-hooks, wire mold, etc., fastened to HEAVY concrete 4000psi and up.	1508 - 1"	
SP100 - 1"	Electrical boxes, straps, J-hooks, wire mold, etc. fastened to concrete. Perfect with non-preassembled accessories.	1510 - 1-1/4"	
M100BB - 1"	1" PowerPoint Step shank pin used when maximum holding strength is required. Also used in the T3ss.	WASHERED DRIVE PINS	
		1506SD - 3/4"	Same as 1506/1508 but with an "SD" washer for clamping.
		1508SD - 1"	
		1510SD - 1-1/4"	
		1512SD - 1-1/2"	
TOP HAT PINS			
SP58TH - 5/8	PowerPoint pin to fasten electrical boxes, straps, J-hooks, wire mold, etc., fastened to HEAVY steel 1/4" and thicker.		
1906M - 3/4"	For concrete applications where additional clamping is needed.		
1906 - 3/4"			
1908 - 1"			

Powder pin data found on pages 16-17.



Pre-assembled, single shot



PLASTIC JAR AND MASTER CARTON
 QUANTITIES EFFECTIVE 4/1/08.

Selection Chart

PRE-ASSEMBLED ACCESSORIES

Each accessory comes pre-assembled with a 3/4" step-shank (.104/.125) plated pin, head diameter = .300

THREADED ROD HANGER

For suspended ceilings, piping and other items using 1/4 or 3/8 threaded rod.



FASTENER IS PREASSEMBLED TO A 16 GAUGE THREADED ROD HANGER.

PART NUMBER	SIZE	JAR QTY	MASTER CTN
14TRHMP034	1/4" (UL)	100	8 Jars
38TRHMP034	3/8" (UL)	100	8 Jars

ONE HOLE STRAP

Used to attach conduit or armored cable to concrete.



FASTENER PREASSEMBLED TO A 16 GAUGE CONDUIT STRAP.

PART NUMBER	SIZE	JAR QTY	MASTER CTN
38HSMP034*	3/8" (UL)	200	6 Jars
12HSMP034	1/2"	100	8 Jars
34HSMP034	3/4"	100	6 Jars
10HSMP034	1"	100	6 Jars
114HSMP034**	1-1/4"	25	6 Jars

*38HSMP034 = 18 gauge **114HSMP034 = 13 gauge

CONDUIT CLAMP

Used to attach conduit to concrete.



PIN PREASSEMBLED TO AN 18 GAUGE CONDUIT CLAMP.

PART NUMBER	SIZE	JAR QTY	MASTER CTN
12CCMP034L	1/2" (UL)	50	6 Jars
34CCMP034L	3/4" (UL)	25	6 Jars

CEILING CLIP ASSEMBLY

Preassembled ceiling clip.



PLATED 14 GAUGE CLIP.

PART NUMBER	SIZE	JAR QTY	MASTER CTN
34CLIP	3/4"	100	8 Jars

TIE STRAP HOLDER

Used to install temporary lighting and secure low voltage cable to concrete; uses a standard cable tie up to 3/8" in width.

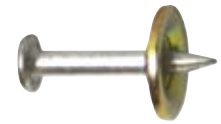


FASTENER PREASSEMBLED TO A 22 GAUGE TIE STRAP HOLDER.

PART NUMBER	JAR QTY	MASTER CTN
TSHMP034	50	25 Jars

MECHANICAL PIN WITH WASHER

Used for the attachment of light gauge metal to concrete and steel such as junction boxes or HVAC duct straps to concrete.



PLATED PIN PREASSEMBLED TO A 1/2" DOMED WASHER.

PART NUMBER	PIN LENGTH	JAR QTY	MASTER CTN
Straight shank general purpose pin (.125 shank)			
M034	3/4"	200	25 Jars
M100	1"	200	25 Jars
Premium, step-shank pin (.104/.125 shank)			
M012	1/2"	200	25 Jars
M034BB	3/4"	200	25 Jars
PowerPoint step-shank pin (.125/.150 shank)			
M100BB	1"	500	8 Jars

Head diameter = .300 (M012 = .250)

* For use with the optional nosepiece, P/N: M150200

1/4-20 THREADED STUD

Used to attach electrical components to concrete where removability of the component is required.



PLATED THREADED STUD.

PART NUMBER	THREAD LENGTH	SHANK LENGTH	JAR QTY	MASTER CTN
14STUD	1/2"	3/4"	200	25 Jars

Shank diameter = .125

TOP HAT PIN

Used for general purpose fastening to concrete.



PLATED PIN WITH TOP HAT.

PART NUMBER	DESCRIPTION	JAR QTY	MASTER CTN
MP034TH	3/4" plated pin with top hat	200	25 Jars

Shank diameter = .125 Head diameter = .300

BRIDLE RING

Pre-assembled 2" bridle ring supports low voltage, data com, signal and control cables.

50 PER BOX. MASTER CARTON 5 BOXES

PART NUMBER	DESCRIPTION
BR2	2" bridle ring with fastener assembly
BR200 * †	2" bridle ring w/o fastener, w/attached washer
BR2S	2" bridle saddle

Shank diameter = .125



* For use when fastening with, powder actuated tools, Tapcon, or conventional drill and anchor methods.

† 100 per box, no master carton.

GAS TECHNOLOGY



Commonly Used Pins Selection Chart

ADVANTAGES

PINS

ITW Ramset powder actuated fasteners are specifically fabricated to meet the exacting requirements of toughness and durability that enable them to penetrate dense concrete and structural quality steel.

BLACK PINS

The special black coating improves pin penetration into difficult base material (i.e. hard concrete). We offer this black coating on all of our fasteners manufactured for the attachment of drywall track and channel to concrete and steel.

We maintain only the highest standards in the materials, production techniques and quality control measures used to manufacture our fasteners, ensuring consistent, optimum quality in every fastener.

FASTENER TERMINOLOGY SUFFIX

K = Knurled B = Black SD = Washer

BLACK TRACK PINS

Designed for use in concrete and structural steel applications.

1000-PACK PER BOX. MASTER CARTON 5 BOXES.

FITS D60, ROCKET AND COBRA

PART NUMBER	SHANK LENGTH IN.	(MM)
1506B	3/4	(19.1)

Shank diameter = .145 Head diameter = .300



DRIVE PINS

Designed for use in concrete and structural steel applications. Fasten electrical boxes or anything flat to 1/4" steel or concrete.

100 PER BOX. MASTER CARTON 50 BOXES.

FITS D60, ROCKET AND COBRA

PART NUMBER	SHANK LENGTH IN.	(MM)
1503K	1/2 Knurled	(12.7)
1506	3/4	(19.1)
1508	1	(25.4)
1510*	1-1/4	(31.8)

Shank diameter = .145 Head diameter = .300
 * Master carton 10 boxes.



DRIVE PINS WITH WASHER

Washer increases bearing surface against the material to be fastened.



16 GAUGE METAL WASHER. 100 PER BOX. MASTER CARTON 10 BOXES.

FITS D60, ROCKET AND COBRA

PART NUMBER	SHANK LENGTH IN.	(MM)
1506SD	3/4	(19.1)
1508SD	1	(25.4)
1510SD	1-1/4	(31.8)
1512SD	1-1/2	(38.1)

Shank diameter = .145 Head diameter = .300

POWERPOINT PINS

Used for fastening into harder steel and concrete. Premium steel and hard concrete pin.



100 PER BOX. MASTER CARTON 50 BOXES.

FITS D60, ROCKET AND COBRA

PART NUMBER	SHANK LENGTH IN.	(MM)
SP12	1/2	(12.7)
SP58	5/8	(15.9)
SP34	3/4	(19.1)
SP78	7/8	(22.2)

Shank diameter = .150 Head diameter = .300

POWERPOINT STEP SHANK PINS

Used for fastening into harder steel and concrete. Premium steel and hard concrete pin.



PIN FOR FASTENING INTO HARDER STEEL AND CONCRETE. 100 PER BOX. MASTER CARTON 50 BOXES.

FITS D60, ROCKET AND COBRA

PART NUMBER	SHANK LENGTH IN.	(MM)
SP100	1	(25.4)

Shank diameter = .150 / .180 Head diameter = .300

M100BB PIN

For general purpose attachments to concrete.



POWERPOINT STEP SHANK PIN PREASSEMBLED TO 1/2" WASHER. 500 PER BOX. MASTER CARTON 5 BOXES.

FITS ALL POWDER TOOLS AND SINGLE PIN GAS TOOLS

PART NUMBER	DESCRIPTION
M100BB	1" PowerPoint step shank pin with 1/2" domed washer and flute

Shank diameter = .125 / .150 Head diameter = .300



Ramset fasteners may be specified by their type or catalog number to satisfy fastening requirements.

PIN SPECIFICATIONS

- Made from AISI 1060-1065 steel. Austempered to a core hardness of 52-56 Rc
- Typical tensile strength: 270,000 psi
- Typical shear strength: 162,000 psi
- STANDARD FINISHES
 - Proprietary black
 - Mechanical zinc plate to a minimum thickness of .0002 meets requirements of ASTM B695
- All clips are electroplated zinc with yellow cromate and meet ASTM B633 requirements

APPROVALS/LISTINGS

- ICC Evaluation Service, Inc.
#ESR-1955 T3 Fasteners

FASTENERS IN CONCRETE

FASTENER PART NUMBER	SHANK DIA. (INCH)	MINIMUM PENETRATION (INCH)	INSTALLED IN STONE AGGREGATE CONCRETE CONCRETE COMPRESSIVE STRENGTH ALLOWABLE LOAD – <i>Ultimate Load</i>						HOLLOW BLOCK Grade N, Type 1	
			4000 PSI		6000 PSI		3000 PSI Lightweight LOWER FLUTE		FACE SHELL Min 1-1/4" face thickness	
			TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)
MP034TH*, M034* M100*, BR2*	0.125	5/8	78 426	80 574	62 308	-----	72 361	242 1210	133 691	-----
		3/4	104 593	195 977	132 658	206 1057	93 470	288 1442	84 444	87 446
14STUD	0.125	5/8	91 454	-----	57 373	-----	-----	-----	-----	-----
M034BB	0.104/ .118	3/4	51 256	83 418	-----	-----	-----	-----	36 184	58 290
34CLIP	0.104/ .125	5/8	62 310	-----	106 528	-----	44 220	-----	-----	-----
38HSMP034, 12HSMP034 34HSMP034, 10HSMP034 114HSMP034, 14TRHMP034 38TRHMP034, TSHMP034 12CCMP034L, 34CCMP034L	0.104/ .125	5/8	60 357	117 587	107 533	191 957	54 269	230 1150	71 357	123 613
M100BB, 38HSS10 12HSS10, 34HSS10 10HSS10, TSHSS10 12CCSS10L, 34CCSS10L 14TRHSS10, 38TRHSS10	0.125/ .150	3/4	107 559	213 1067	161 803	248 1240	96 478	231 1156	102 512	166 831

* ESR-1955 pin specs apply. **Note 1:** ALLOWABLE loads are shown in the **LARGE BOLD** font, *Ultimate* loads are shown in *italic* font. **Note 2:** Testing conducted in accordance with ICC AC70 & ASTM E1190. **Note 3:** Safety factors are based on coefficient of variation. In accordance with ICC AC70, the safety factor will be no less than 5. **Note 4:** Values shown in concrete are for fastener only. Connected members must be investigated separately. **Note 5:** Cyclic, fatigue, shock loads and other design criteria may require a different safety factor. **Note 6:** Jobsite testing may be required to determine actual jobsite values. **Note 7:** Minimum edge distance is 3 inches unless otherwise approved. In hollow block applications, no more than one fastener per cell. **Note 8:** For Sl: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 ksi = 6.89MPa. Tables converted to metric are available on our website.

GAS FASTENERS IN STEEL

PART NUMBER	SHANK DIA. (INCH)	TYPE OF SHANK	INSTALLED IN A36 STRUCTURAL STEEL STEEL THICKNESS INCHES ALLOWABLE LOAD – <i>Ultimate Load</i>							
			11 Gauge (.119)		3/16 (.1875)		1/4 (.250)		3/8 (.375)	
			TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)	TENSION (LBS)	SHEAR (LBS)
M012	0.104/.118	SMOOTH	-----	-----	-----	-----	148 744	157 787	166 832	157 787

** Fasteners shall have minimum 0.32-inch penetration when installed into 3/8-inch thick steel. **Note 1:** ALLOWABLE loads are shown in the **LARGE BOLD** font, *Ultimate* loads are shown in *italic* font. **Note 2:** Testing conducted in accordance with ICC AC70 & ASTM E1190. **Note 3:** Safety factors are based on coefficient of variation. In accordance with ICC AC70, the safety factor will be no less than 5. **Note 4:** Cyclic, fatigue, shock loads and other design criteria may require a different safety factor. **Note 5:** Jobsite testing may be required to determine actual jobsite values. **Note 6:** Values shown are for fastenings that have the entire pointed end of the fastener driven through the steel plate; except as noted below. **Note 7:** Fastener penetration is .31 inch minimum. **Note 8:** For Sl: 1 lbf = 4.448 N, 1 inch = 25.4 mm, 1 ksi = 6.89MPa. Tables converted to metric are available on our website.

POWDER ACTUATED FASTENING

