

Ramset D45A

Ramset D45A 0.25 Caliber Semi-Automatic Powder Actuated Tool Instruction Manual

Model: D45A

1. IMPORTANT SAFETY INFORMATION

The Ramset D45A powder-actuated tool is designed for specific fastening applications and must be operated with extreme caution. Failure to follow safety instructions can result in serious injury or death.

- **Always Wear Personal Protective Equipment (PPE):** Eye protection (safety glasses or goggles) and hearing protection (earplugs or earmuffs) are mandatory when operating or in the vicinity of the tool.
- **Never Place Hands Over Fastener:** Keep hands clear of the fastener and muzzle end of the tool at all times.
- **Trained Operators Only:** Only individuals who have been properly trained and certified in the use of powder-actuated tools should operate this device.
- **Inspect Tool Before Use:** Before each use, inspect the tool for any damage, wear, or loose parts. Do not use a damaged tool.
- **Use Correct Loads and Fasteners:** Only use Ramset-approved powder loads and fasteners that are appropriate for the application and base material.
- **Never Point at People:** Always treat the tool as if it is loaded and never point it at yourself or others.
- **Secure Workpiece:** Ensure the material being fastened is stable and secure.
- **Avoid Hazardous Environments:** Do not use the tool in explosive atmospheres or near flammable materials.
- **Store Safely:** Store the tool, powder loads, and fasteners securely and separately, out of reach of children and unauthorized persons.

2. PRODUCT OVERVIEW

The Ramset D45A is a robust 0.25 caliber semi-automatic powder-actuated tool designed for efficient and reliable fastening into concrete, steel, and masonry. Its semi-automatic disc feed system allows for rapid fastening.



Figure 1: Ramset D45A 0.25 Caliber Semi-Automatic Powder Actuated Tool. This image displays the tool's overall design, including the handle, trigger, main body, and the muzzle end where fasteners are driven.

Components:

- **Handle:** Ergonomically designed for grip and control.
- **Trigger:** Activates the firing mechanism.
- **Muzzle End:** Where the fastener exits the tool.
- **Power Adjustment (if applicable):** Allows for varying power levels based on application.
- **Disc Feed System:** Houses the powder load disc for semi-automatic operation.

3. SETUP

Proper setup is critical for safe and effective operation.

1. **Select Fastener and Load:** Choose the appropriate fastener type and length, and the correct powder load strength (e.g., .25 caliber disc loads) for your specific application and base material. Refer to Ramset's load selection chart for guidance.
2. **Load Powder Disc:** Open the tool's loading mechanism (refer to your tool's specific manual for exact steps) and insert the powder load disc into its designated slot. Ensure it is seated correctly.
3. **Load Fastener:** Insert the chosen fastener into the muzzle end of the tool. Ensure the fastener is fully seated and aligned.
4. **Check Tool Condition:** Before closing the tool, perform a quick visual inspection for any obstructions in the barrel or signs of damage.
5. **Close and Secure:** Close the tool securely according to the manufacturer's instructions. The tool should be ready for use.

4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of the Ramset D45A.

1. **Wear PPE:** Ensure eye and hearing protection are securely in place.
2. **Position Tool:** Place the muzzle end of the tool firmly and perpendicularly against the workpiece. Apply sufficient pressure to compress the tool's safety mechanism. The tool will not fire unless fully compressed against the surface.
3. **Maintain Stability:** Hold the tool firmly with both hands if possible, maintaining a stable stance.
4. **Fire Tool:** Once the tool is firmly pressed against the surface and the safety mechanism is engaged, pull the trigger to fire the fastener.
5. **After Firing:** Release the trigger and lift the tool from the workpiece. The semi-automatic mechanism will advance the next powder load.
6. **Misfires:** In case of a misfire, keep the tool pressed against the surface for at least 30 seconds. Then, carefully remove the tool, unload the misfired cartridge, and dispose of it safely according to local regulations. Do not attempt to re-fire a misfired cartridge.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Ramset D45A tool.

- **Daily Cleaning:** After each use, or at least daily, disassemble the tool (refer to your tool's specific manual for disassembly instructions) and clean all components, especially the barrel, piston, and firing pin, using a wire brush and appropriate cleaning solvent.
- **Lubrication:** Apply a light coat of Ramset-approved lubricant to moving parts as specified in the detailed product manual.
- **Inspection:** Regularly inspect all parts for wear, cracks, or damage. Pay close attention to the piston, buffer, and barrel. Replace worn or damaged parts immediately with genuine Ramset replacement parts.
- **Storage:** Store the tool in a clean, dry place, disassembled if recommended by the manufacturer, and away from extreme temperatures. Ensure powder loads are stored separately and securely.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Ramset D45A tool.

Problem	Possible Cause	Solution
Tool does not fire.	Not enough pressure applied to workpiece. Tool is dirty or jammed. Defective powder load. Worn firing pin or piston.	Apply more firm, perpendicular pressure. Clean the tool thoroughly. Replace powder load. Inspect and replace worn parts.
Fastener does not fully penetrate.	Incorrect powder load strength. Incorrect fastener for material. Worn piston or buffer.	Use a stronger powder load. Select appropriate fastener. Inspect and replace worn parts.

Problem	Possible Cause	Solution
Tool jams frequently.	Tool is dirty. Damaged fasteners or powder loads. Worn or damaged components.	Perform thorough cleaning. Use only undamaged fasteners/loads. Inspect and replace worn parts.

If problems persist after attempting these solutions, contact Ramset customer support or a certified service center.

7. SPECIFICATIONS

- **Model:** D45A
- **Tool Type:** Semi-Automatic Powder Actuated Tool
- **Caliber:** 0.25 (Quarter Inch)
- **Manufacturer:** ITW Ramset
- **ASIN:** B00IPUJ8NC
- **Fastener Compatibility:** Designed for use with Ramset 0.25 caliber fasteners.
- **Powder Load Compatibility:** Designed for use with Ramset 0.25 caliber powder load discs.



8. WARRANTY AND SUPPORT



For detailed warranty information, product registration, or technical support, please refer to the documentation included with your purchase or visit the official Ramset website.

[Visit Ramset Official Website](#)

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Related Documents

	<p>RAMSET 50 GB Gate Operator Installation and Safety Manual</p> <p>Comprehensive guide for installing, operating, and maintaining the RAMSET 50 GB gate operator, detailing safety protocols, technical specifications, installation procedures, control configurations, and troubleshooting.</p>
	<p>Ramset DC RAM 300s & 302s Swing Gate Operator Instruction Manual</p> <p>Comprehensive instruction manual for Ramset DC RAM 300s and 302s high traffic swinging gate operators. Covers installation, safety, specifications, and maintenance for Class I-IV vehicular gate operators.</p>

	<p>Ramset EPCON C8 Xtrem: High-Performance Epoxy Anchoring Adhesive for Seismic Reinforcing Bars</p> <p>Discover Ramset EPCON C8 Xtrem, a high-performance pure epoxy anchoring adhesive for seismic reinforcing bars in cracked and non-cracked concrete. Ideal for structures subject to external exposure, damp, or aggressive conditions. Learn about its features, applications, installation, and technical specifications.</p>
	<p>Ramset ChemSet Reo 502 PLUS Seismic Reinforcing Bar - Chemical Injection Guide</p> <p>A comprehensive guide to Ramset ChemSet Reo 502 PLUS, a heavy-duty pure epoxy for anchoring threaded studs and reinforcing bar into cracked and uncracked concrete, with detailed installation and performance data for seismic applications.</p>

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Product Catalog 1Ramset Products for ITW Ramset These manuals are also available on the website To assure safety jobsite OSHA and ANSI require that all powder actuated tool users 1532470 buildsite itwramset

Table of Contents Powder Training Certification. S
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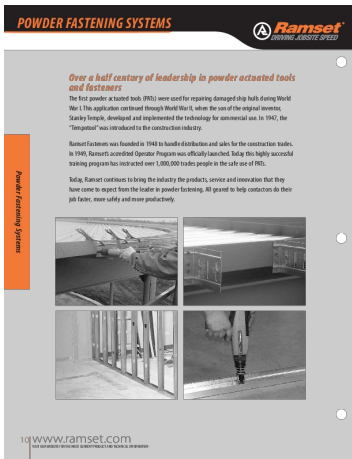


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2017 PRODUCT CATALOG Table of Contents Powder Training Certification.
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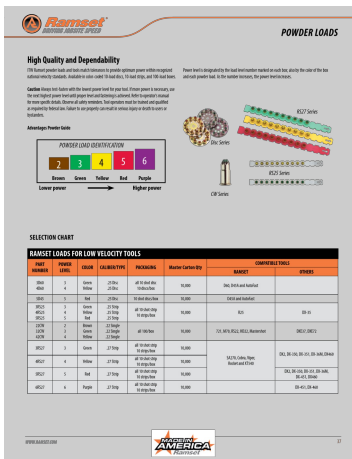
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Ramset Powder Fastening Systems Product Catalog for ITW buildsite Spring return front end—no manual resetting of the piston Power adjust—dial down 1 2 load levels Rugged soft grip handle Low recoil Ergonomically balanced 5 Year Warranty MOST COMMON FASTENERS PIN SHANK LENGTH IN MM APPLICATION SP58TH 8 15 9 Track to steel SP114 4 31 Perimeter track concrete 315546 itwramset Powder Fastening Systems POWDER FASTENING SYSTEMS Over a half century of leadership in powder actua ... tions. www.ramset.com 15 VISIT OUR WEBSITE FOR THE MOST CURRENT PRODUCT AND TECHNICAL INFORMATION **D45A D45A** .25 Caliber Disc Tool Semi-Automatic 2 Pin Capacity 2-1/2 w/washer Automatic Piston Re...

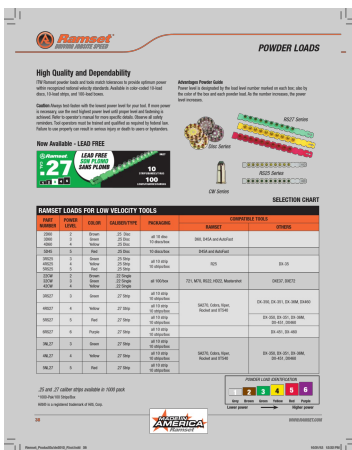
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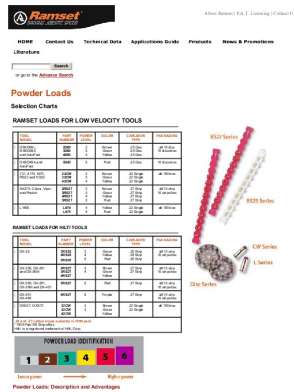
POWDER LOADS Refer to operator s manual for more specific details Observe all safety reminders Tool operators must be trained and qualified as required by federal law ITWRAME00001 37 cdn Isicloud net acmeconsum TradeService Resources ||| POWDER LOADS High Quality and Dependability ITW Ramset powder loads and tools match tolerances to p ... Qty 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 COMPATIBLE TOOLS RAMSET OTHERS D60, **D45A** and AutoFast **D45A** and AutoFast R25 DX-35 721, M70, RS22, HD22, Mastershot DXE37, DXE72 SA...

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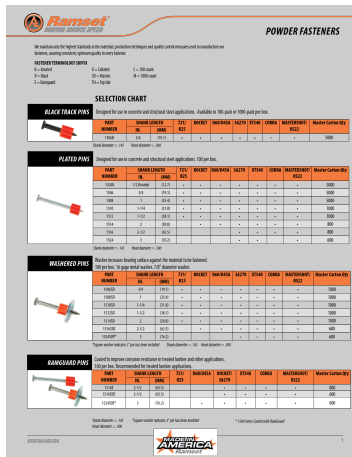
RAMSET Powder Loads Sell Sheet grainger ec ||| POWDER LOADS High Quality and Dependability ITW Ramset powder loads and tools match tolerances to p ... of Hilti, Corp. 38 CW Series RS25 Series Selection chart RAMSET COMPATIBLE TOOLS OTHERS D60, **D45A** and AutoFast **D45A** and AutoFast R25 DX-35 721, M70, RS22, HD22, Mastershot DXE37, DXE72 SA... lang:en score:26 filesize: 1.24 M page_count: 1 document date: 2012-10-31



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products |||

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Plated Pins Product Data for ITW Ramset 1994057 buildsite itwramset |||

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PowerPoint Pins Product Data for ITW Ramset 315515 buildsite 80 itwramset

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Ramset Drive Pins Product Data for ITW 315512 buildsite 80 itwramset

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Construction Products DigitalOcean This application continued through World War II when the son of original inventor Stanley Temple developed and implemented technology for commercial Ramset 100306184 Catalog supplyhog nyc3 cdn digitaloceanspaces orgill docs ||| Construction Products Notes R 2 Construction Products Call our toll free number 800-387-9692 or ... buildings. There are times when you need the power and accuracy of our PATs--like the speed of our **D45A** disc tool, or the work horse, nearly maintenance-free 721 single shot PAT. But constant use of ... lang:en score:23 filesize: 5.48 M page_count: 40 document date: 2016-01-10

Ramset
DRIVING JOBSITE SPEED

POWDER FASTENERS

We maintain only the highest standards in the materials, production techniques and quality control measures used in the manufacture of Ramset powder fasteners. Consistent quality is our commitment.

RECOMMENDED DATA
 1/2" Shank
 1/2" Head
 1/2" Shank
 1/2" Head

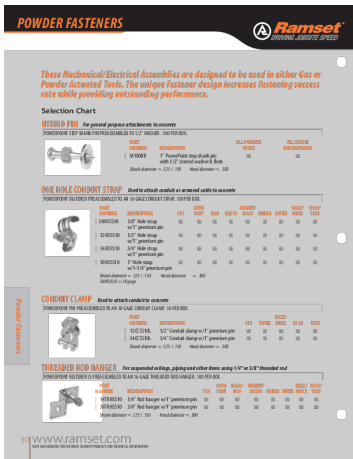
SELECTION CHART

BLACK TRACK PINS
Designed for use in concrete and structural steel applications. Available in 100 pack or 500 pack per box.

Model	Shank	Head	Length	Weight	Box Qty	Box Weight
RS22	1/2"	1/2"	2 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	3 1/2"	0.05	100	5.0
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PLATED PINS
Designed for use in concrete and structural steel applications. Available in 100 pack or 500 pack per box.

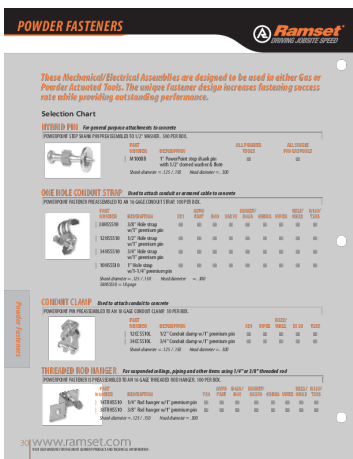
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RS22	1/2"	1/2"	4 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	6 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	7 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	8 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	9 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	10 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	11 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	12 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	13 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	14 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	15 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	16 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	17 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	18 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	19 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	21 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	23 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	24 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	25 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	28 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	30 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	31 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	32 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	33 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	34 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	35 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	36 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	37 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	38 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	39 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	40 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	41 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	42 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	43 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	45 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	47 1/2"	0.05	100	5.0
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RS22	1/2"	1/2"	58 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	59 1/2"	0.05	100	5.0
RS22	1/2"	1/2"	60 1/2"	0.05	100	5



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Ramset 3 07 cat maggie Catalog Page 12HSSS10 1 2 Conduit Strap Gexpro ramset 30elecfasteners i 9A61F523 B5BB 4755 A137 D7BB415D74A0 rexel cdn products |||

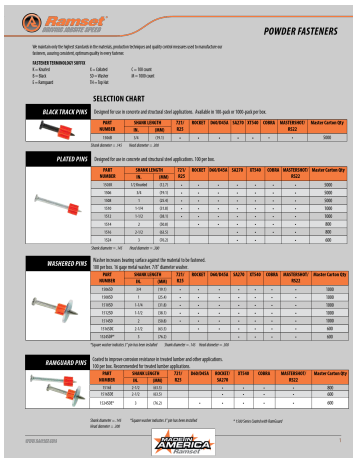
POWDER FASTENERS These Mechanical/Electrical Assemblies are designed to be used in either Gas or Po ... ONDUIT STRAP. 100 PER BOX. PART NUMBER DESCRIPTION AUTO ROCKET/ RS22/ R150/ 721 FAST D60 SA270 **D45A** COBRA VIPER HD22 T3SS 38HSSS10 3/8 Hole strap w/1 premium pin 12HSSS... lang:en score:17 filesize: 97.1 K page_count: 1 document date: 2007-04-02



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Ramset One Hole Conduit Strap lectrical Fasteners Product Data for Electrical ITW Cut Sheet 12CCSS10L PLATT ELECTRIC SUPPLY ramset 12ccss10l cut sheet i 09EF457B 6D96 4316 A569 DF1B18B19EB6 rexel cdn products |||

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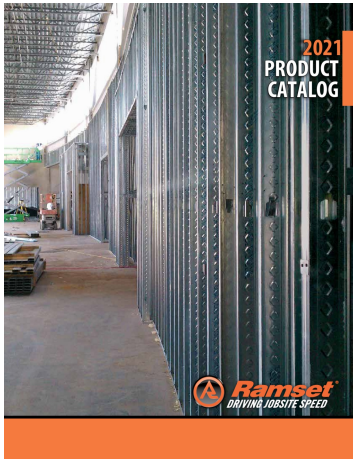


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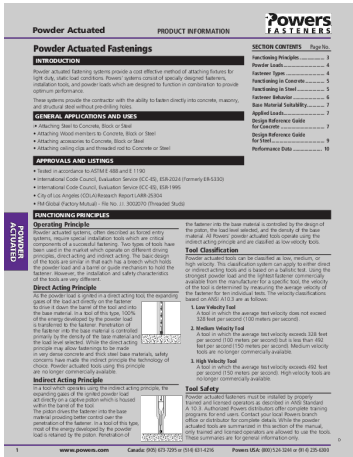
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. . . . idual tools POLE FOR RAMSET AND HILTI TOOLS PART # LENGTH PLSEMI8

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Powder Actuated PRODUCT INFORMATION Powder Actuated Fastenings

INTRODUCTION Powder actuated fasten ... 10,000 10,000 10,000 10,000 Wt./100

0.4 0.4 0.4 0.4 0.4 SUGGESTED TOOLS Powers: P60 Ramset: D45, **D45A**, D60,

D60L Ramset: D45, **D45A** Only .25 Caliber Single Loads Cat.No. Description

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Fastening Sys ... mset: 721, M70, RS22 Hilti: DXE37, DXE72 SUGGESTED TOOLS

Ramset: L1600 SUGGESTED TOOLS Ramset: D45, **D45A**, D60, D60L Ramset: D45,

D45A Only .25 Caliber Single Loads Cat. No. Description 50560 Green,

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