POWERNAIL® CO.

Powernail 54P Pneumatic PowerTacker™

OPERATION AND MAINTENANCE MANUAL
MANUAL DE OPERACION Y DE MANTENIMIENTO
MANUEL D'INSTRUCTIONS ET D'ENTRETIEN

WARNING

Read this manual before you use this pneumatic Powerstapler®. Follow all safety warnings and instructions. If you are uncertain about the operation of the nailer, call us directly at 1-800-323-1653 for assistance or contact the closest Powernail Dealer for help. Please retain this information for future reference.

REV 09.14.17

INTRODUCTION

The Powernail trigger-pull Carpet Tacker is designed to bring Powernail quality and flooring expertise to an electric stapler. The Powernail carpet tacker is designed for use with 9/16" staples.

The Powernail PowerTacker™ is designed to be used for installation of carpet and carpet padding.

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LIMITED WARRANTY

POWERNAIL® Company, Inc. warrants to its customer, and to the first end-use purchaser of POWERNAIL trigger-pull PowerTacker™ purchased from an authorized POWERNAIL distributor, that each serialized manufactured trigger-pull PowerTacker™ by POWERNAIL®, for a period of 12 months from the date of purchase, and with respect to the PowerTacker™ power cord for a period of 100 days; shall be free of defects in materials and workmanship and will meet POWERNAIL'S specifications in effect at the time of product shipment. POWERNAIL will repair or replace, at its option, any Powernail PowerTacker™ that does not conform to this warranty. Claims must be made no later than fifteen (15) days after the end of the warranty period. POWERNAIL will perform all repair or replacements itself or through its authorized contractors. POWERNAIL is not responsible for shipping, labor or other direct or indirect costs. Damage caused by abuse, misuse, unusual or excessive wear is excluded. Repair or modification of the Products by unauthorized parties will void this warranty. The customer is responsible for returning Products to POWERNAIL for verification of nonconformance. Warranties for Products not manufactured by POWERNAIL are limited to warranties provided to POWERNAIL by the manufacturer of such product that are assignable to customer.

THESE WARRANTIES AND REMEDIES ARE EXCLUSIVE OF ALL OTHERS, EXPRESS OR IMPLIED. THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE ARE EXPRESSLY EXCLUDED. IN NO EVENT SHALL POWERNAIL'S LIABILITY FOR A WARRANTY CLAIM EXCEED THE PRICE PAID TO POWERNAIL FOR THE NONCONFORMING PRODUCT, REGARDLESS OF THE FORM OR BASIS OF THE CLAIM OR CAUSE OF ACTION.

SAFETY INSTRUCTIONS

When operating this stapler, the operator and others in the work area should ALWAYS wear approved SAFETY GLASSES, with front and side eye protection (i.e. OSHA required iZ87i safety glasses). Eye protection will help guard against flying staples and debris, which could cause severe eye injury.

EAR PROTECTION should be used to prevent hearing damage when there are high noise levels in the work area. ALWAYS use ear plugs with a noise reduction rated at 29 db or higher at a construction site.

Never place any part of the body in the discharge path of the carpet tacker when air is connected to the stapler. Never point the tool at yourself or others, even if the tool is not loaded. Never leave the carpet tacker unattended while it is plugged in to an air source. For safety, keep tools locked up and out of reach of children.

To prevent accidental misfire, always **DISCONNECT THE AIR SUPPLY** before making any adjustments, repairing, clearing jams or when the stapler is not in use. Do not use on scaffolding or ladders and disconnect stapler from air supply when transporting between installation areas.

Never attach the female end of a quick disconnect to the stapler. This will trap air inside the stapler and permit it to be discharged. Only the unrestricted male connection should be attached to the stapler.

Stapler requires an air source that can continuously deliver 70 to 120 psi at 3-1/2 cubic feet of air per minute for operation.
Normal air pressure should not exceed 120 psi or damage to the stapler and seals may occur. Excess air pressure can cause the stapler to explode.

To prevent fire or explosion, use only regulated compressed air—do not use bottled gases of any kind (no oxygen or combustible gasses) to power this stapler.

Use only Powernail replacement parts in the repair or maintenance of this carpet tacker. Parts or repair services are available from the manufacturer or from agents authorized by the manufacturer. Repairs should be carried out only by trained service personel in the field of fastener driving tools who will observe proper safety controls while performing maintenance. Service personel should be qualified to assess the safe working condition of fastener driving tools.

When not in use, the tool should be cleaned, fully assembled and then stored in a dry location. This will extend the life of the tool and reduce any oxidation. Keep work area clean. Cluttered work areas invite injuries. Dress properly. Be sure not to wear clothing or jewelry that may get caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

Keep work area well lit. Keep children away and visitors away from work area. Do not let visitors contact tool. Do not operate tool when you are tired. Always stay alert and watch what you are doing.

OPERATION

The Powernail PowerTacker™ is designed for use with 9/16” long staples with a 3/16” crown.

APPLICATIONS

Carpet and Carpet Pad Installation

*Only use tool for its intended purposes. Drive fasteners into work surfaces only; never into materials too hard to penetrate.

1. Hold the tool by the handle.

2. Place the nose of the tool where you want to drive the staple.

3. Keeping a firm grip, pull up and hold the safety trigger to activate the firing trigger.

OPERATION, *continued...*

CONNECTING THE TOOL TO AN AIR SUPPLY

Your air tool is fully assembled when you receive it. Before using it, attach the air line and desired air system accessories. Be sure the air hose is depressurized when installing or removing adapters to the air line. To prevent misfire, do not connect air to a loaded nailer.

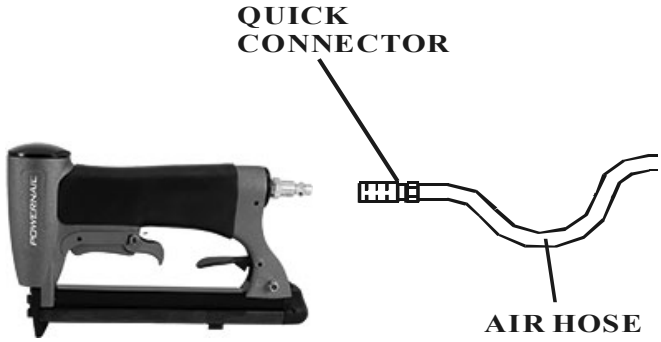


Figure 1

1. An automatic airline oilier is recommended but oil may be added manually before every operation or after about 1 hour of continuous use.

2. Place two (2) drops of air-tool oil (figure 2) into the air plug at the rear of the stapler. If you are using an automatic in-line oiler, check and add oil if necessary.

3. Turn your compressor on and set the compressors pressure regulator to the proper pressure for the size and type of fastener being used. Normal operating pressure should be adjusted between 70-120 psi.

4. Connect the tool to the air supply (Figure 1).

Figure 2

OPERATING TIPS

Before using this tool, carefully check that all parts are working correctly. Do not use the tool if it is not operating correctly, check for causes and adjust as necessary for proper operation.

Secure your work. Use clamps or a vise to hold your work project in place. It is safer than using your hands and it frees both hands to operate tool.

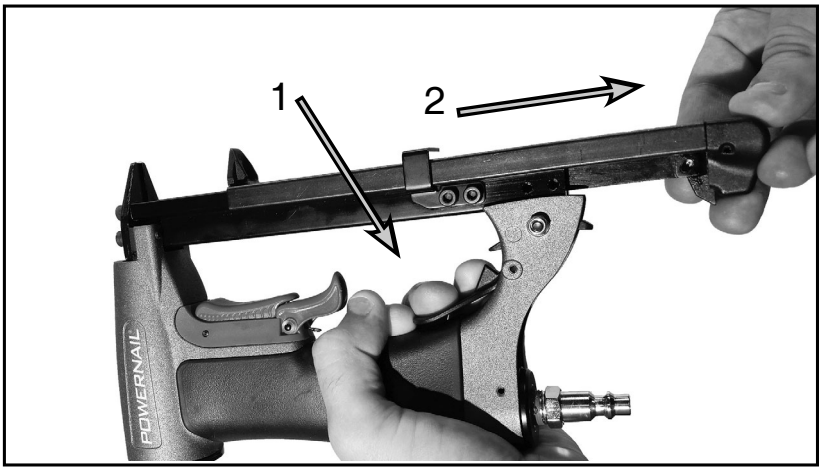
Do not drive fasteners on top of other fasteners or with tool at too steep of an angle; the fasteners may ricochet and injure someone.

Do not drive fasteners too close to the edge of the work surface. The work piece is likely to split and the fastener could fly free or ricochet and injure someone.

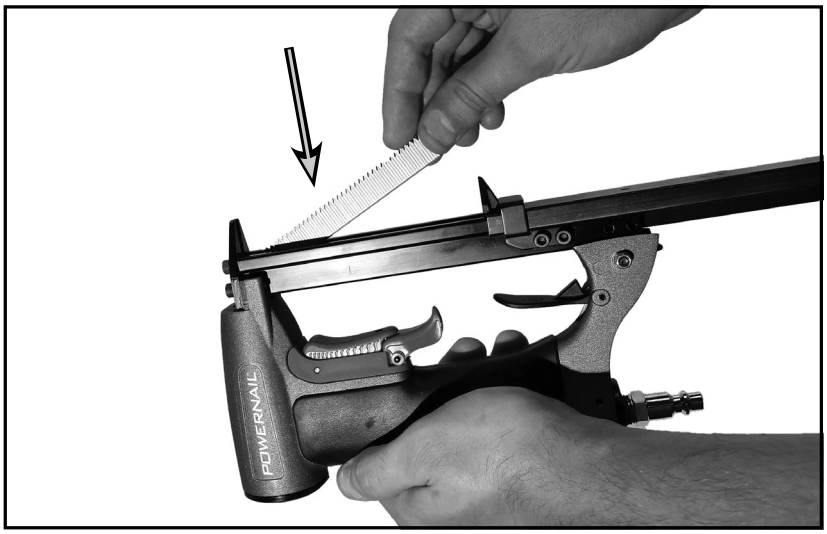
Do not fire into hard materials or attempt to use on hard or brittle materials such as concrete, steel or tile.

LOADING STAPLES

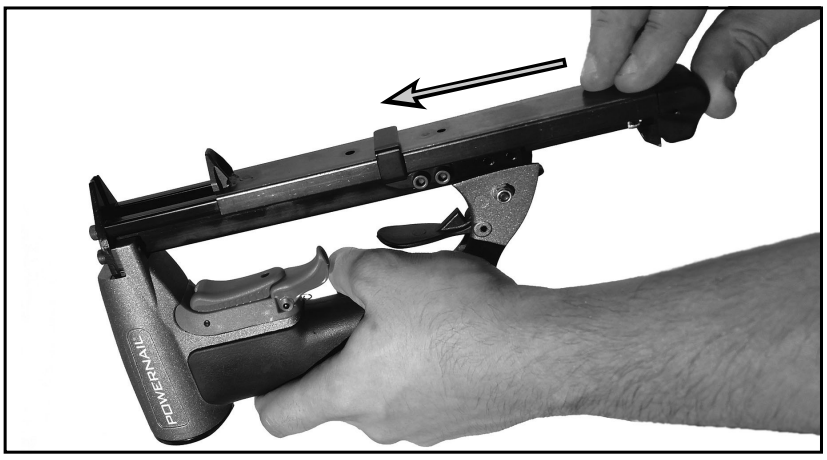
1. Hold the tool upside down, and depress the magazine latch. Pull back on the magazine cover.



2. Insert a strip of fasteners into the magazine. Make sure the crown of the fasteners are resting in the magazine.



3. Push the magazine cover forward until the latch catches.



CLEARING JAMS

CAUTION: Always unplug the tool from the air source before adjusting the tool, clearing jams, servicing, carrying to a new work location, or when not in use.

For fasteners jammed inside the magazine:

1. Disconnect tool from air source.
2. Press down latch and pull back on magazine.
3 Remove jammed fasteners using pliers if needed.
4. Push magazine cover forward until latch catches.

For fasteners jammed in discharge area :

1. Disconnect tool from air source.
2. Grab jammed fasteners with pliers and remove.
3. If fastener can not be reached from discharge area refer to above for fasteners jammed inside the magazine.
4. Push magazine cover forward until latch catches.

Use a needle-nose pliers to remove jammed staples

STAPLER SAFETY LABELS

Powernail PowerTacker™ TECHNICAL SPECIFICATIONS

Power Source:	Air (70-120 psi)
Dimensions:	8.625" L x 5.5" H x 1.75" W
Weight:	2.12 lbs.
Fastener Capacity:	85 staples
Fastener Type:	20 Gauge 3/16" Crown
Fastener Lengths:	9/16”

TROUBLE SHOOTING CHART

Here are some common issues that may occur during use.
If the stapler is not working as it should, stop using the tool immediately and resolve the issue before continuing.

	PROBLEM	POSSIBLE CAUSE	SOLUTION
1	Tool repeatedly jams	1. Wrong staple size 2. Bent staple pusher 3. Clogged or damaged nose. 4. Misaligned magazine cover	1. Use only the correct size staples 2. Replace staple pusher 3. Unclog or replace nose 4. Replace or service magazine cover
2	Tools works but no staple comes out	1. Jammed staple-feed pusher	1. Open staple-feed magazine cover and unjam staple-feed pusher
4	Tool skips driving fastner	1. Worn bumper. 2. Dirt in nose. 3. Dirt or damage prevents fasteners from moving freely in magazine. 4. Inadequate air flow. 5. Worn O-ring on piston or lack of lubrication. 6 Damaged O-rings on trigger valve. 7. Air leaks. 8. Air leakage due to worn cap seal.	1. Replace bumper 2. Clean nose. 3. Clean magazine and inspect and repair damage. 4. Check fitting, hose and air pressure. 5. Replace O-rings and lubrication. 6. Replace O-rings. 7. Tighten screws and fittings. 8. Replace seal.
5	Weak drive	1. Tool not lubricated. 2. Broken spring in cap assembly. 3. Exhaust port in cap is blocked.	1. Lubrication. 2. Replace spring. 3.Clean or replace damaged internal parts.
7	Tool does not fire	1. Fasteners jammed in magazine or discharge area. 2. Piston shaft is damaged. 3. Air pressure too low.	1. Inspect and clean magazine. 2. Replace piston shaft. 3. Check/increase air pressure.

Powernail 54P PowerTacker™ PARTS LIST

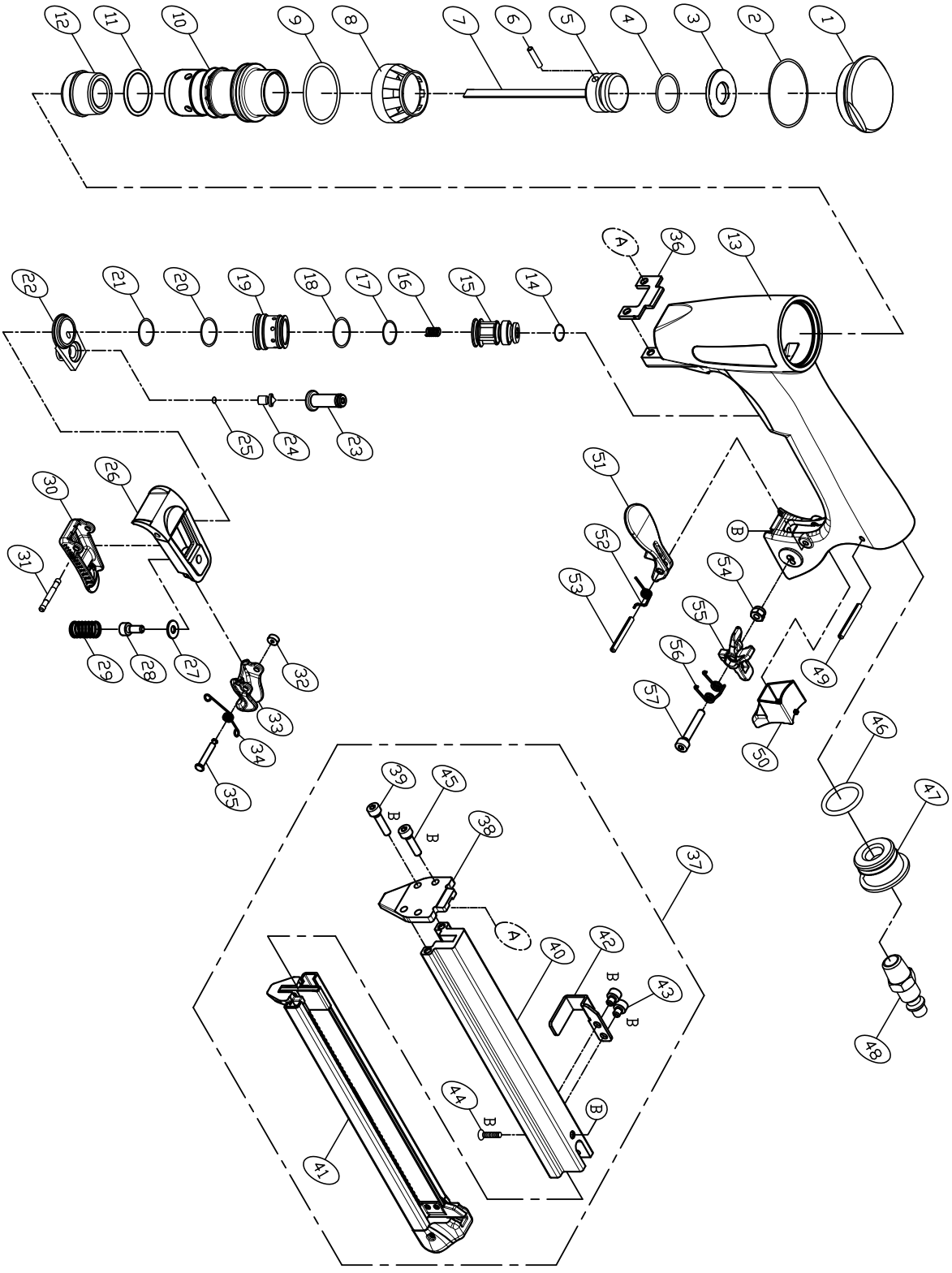
ITEM #	PART NO.	DESCRIPTION	QTY
1	09-54P001	CAP	1
2	09-54P002	O RING (Sold in Kit)	1
3	09-54P003	PISTON STOPPER	1
4	09-54P004	O RING (Sold in Kit)	1
5	09-54P005	PISTON	1
6	09-54P006	BALL PIN	1
7	09-54P007	DRIVER	1
8	09-54P008	COLLAR	1
9	09-54P009	O RING (Sold in Kit)	1
10	09-54P010	CYLINDER	1
11	09-54P011	O RING (Sold in Kit)	1
12	09-54P012	BUMPER	1
13	09-54P013	BODY (Not available)	1
14	09-54P014	O RING	2
15	09-54P015	VALVE PLUNGER	1
16	09-54P016	SPRING	1
17	09-54P017	O RING (Sold in Kit)	1
18	09-54P018	O RING** (Sold in Kit)	1
19	09-54P019	VALVE CYLINDER	1
20	09-54P020	O RING (Sold in Kit)	1
21	09-54P021	O RING (Sold in Kit)	1
22	09-54P022	PLUNGER COVER	1
23	09-54P023	CONNECTING TUBE	1
24	09-54P024	TRIGGER VALVE STEM	1
25	09-54P025	O RING (Sold in Kit)	1
26	09-54P026	TRIGGER BASE	1
27	09-54P027	FLAT WASHER	1
28	09-54P028	HEX. SOC. HD. BOLT	1
29	09-54P029	SPRING	1
30	09-54P030	TRIGGER	1
31	09-54P031	PIN	1
32	09-54P032	PU RING**	1
33	09-54P033	TRIGGER CONTROL-LER	1
34	09-54P034	TOR. SPRING	1
35	09-54P035	SHAFT	1

ITEM #	PART NO.	DESCRIPTION	QTY
36	09-54P036	SET PLATE	1
37	09-54P037	MAGAZINE ASSEM-BLY	1
38	09-54P038	NOSE	1
39	09-54P039	HEX.SOC.HD.BOLT	2
40	09-54P040	MAGAZINE	1
41	09-54P041	STAPLE GUIDE UNIT	1
42	09-54P042	VALVE PLATE	1
43	09-54P043	HEX.SOC.HD.BOLT	2
44	09-54P044	FLAT. HD. BOLT	1
45	09-54P045	HEX. SOC. HD. BOLT	2
46	09-54P046	O RING	1
47	09-54P047	END CAP	1
48	09-54P048	AIR PLUG	1
49	09-54P049	ROLLED PIN	1
50	09-54P050	EXHAUST COVER	1
51	09-54P051	RELEASE LEVER	1
52	09-54P052	RELEASE LEVER SPRING	1
53	09-54P053	ROLLED PIN	1
54	09-54P054	LOCK NUT	1
55	09-54P055	LATCH	1
56	09-54P056	TOR. SPRING	1
57	09-54P057	HEX.SOC.HD.BOLT	1

Model 54P Assemblies, Kits, Accessories

A-1	09-54PSK	SEAL KIT (set of 9)	1
A-2	09-54P007A	DRIVE BLADE ASSEMBLY	1

Powernail 54P PowerTacker™ SCHEMATIC



DESIGNED TO BRING POWERNAIL® QUALITY AND FLOORING EXPERTISE TO CARPET INSTALLATION

Model 54E Electric Carpet Powertacker

- Easy bottom load
- Compact design for stair upholstery
- UL approved
- 12 foot heavy duty cord
- Carrying bag included

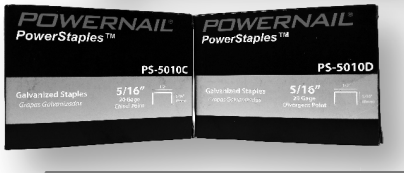
Series: 5400 **GA:** 20 **Crown:** 3/16″ **Length:** 9/16″

Model HT-BL11 Hammertacker

- Fast Bottom-loading
- Protects work surface
- Low staple refill window
- Quick release button
- No loose parts

Series: A11 **GA:** 20 **Crown:** 13/32″ **Length:** 1/4″ - 3/8″

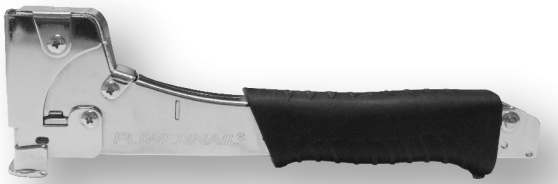
Model HT-550 Hammertacker



- Fast bottom-loading
- Quick-clear Jam Release
- Heavy duty, durable

Series: 5000 **GA:** 20 **Crown:** 1/2″ **Length:** 5/16″

Model HT-750 Hammertacker



- Fast bottom-loading
- Quick-clear Jam Release
- Heavy duty, durable

Series: 7500 **GA:** 19 **Crown:** 15/32″ **Length:** 5/16″ - 9/16″

POWERNAIL COMPANY, INC.
1020 Williams Road, Genoa City, WI 53128 US
Phone: 1-800-323-1653 or 262-292-5300
www.powernail.com