PORTABLE
HAND POWER THREADER
1/2” - 2”

⚠WARNING

Read this Operator’s Manual carefully before using this tool.
Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.

ITEM NUMBER: 3306601

Specifications:

Threading Capacity: Pipe 1/2" through 2"

Motor Type: Universal
Power: 1000 Watts
Volts: 110V / 60Hz.
Switch: heavy load, with safety lock.
Reduction Gearbox: Cast aluminum alloy.
Body: Hardened fiberglass plastic shell.

Length: 19.5”
Weight: 14 lbs.

Standard Equipment

PT® Portable Hand Power Drive
- Six Die heads with Dies: 1/2”, 3/4”, 1”, 1-1/4”, 1-1/2”, 2”
- Support Arm
- Sturdy Plastic Carrying Case

FOR PRODUCT OR WARRANTY INFORMATION CONTACT
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ARGCO

PT® POWER HAND THREADER

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General Safety Information

⚠WARNING

Read and understand all instructions.
Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

Work Area Safety

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.

- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Tools create sparks which may ignite the dust or fumes.

- **Keep bystanders, children, and visitors away while operating tool.** Distractions can cause you to lose control.

- **Keep floors dry and free of slippery materials such as oil.**

- **Guard or the area when work piece extends beyond machine.** A guard or barricade that provides a minimum of three feet clearance around the work piece will reduce the risk of entanglement.

⚠WARNING

Electrical Safety

- **Grounded tools must be plugged into an outlet, properly installed and grounded in accordance with all codes and ordinances.** Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

- **Avoid body contact with grounded surfaces.** There is an increased risk of electrical shock if your body is grounded.

- **Don't expose electrical tools to rain or wet conditions.** Water entering a tool will increase the risk of electrical shock.

- **Do not abuse cord.** Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts.
  Replace damaged cords immediately. Damaged cords increase the risk of electrical shock.

- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electrical shock.
- Use only three-wire extension cords which have three-prong grounding plugs and three-pole receptacles which accept the tool's plug. Use of other extension cords will not ground the tool and increase the risk of electrical shock.
- Use proper extension cords. (See chart.) Insufficient conductor size will cause excessive voltage drop and loss of power.

- **Keep all electric connections dry and off the ground. Do not touch plugs or tool with wet hands.** Reduces the risk of electrical shock.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medications. A moment of inattention while operating power tools may result in serious personal injury.

- **Dress properly.** Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.

- **Avoid accidental starting**. Be sure switch is OFF before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch ON invites accidents.

- **Remove adjusting keys before turning the tool ON**. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

- **Do not overreach.** Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

- **Use safety equipment.** Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

Tool Use and Care

• Do not use tool if switch does not turn it ON or OFF. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

• Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

• Store idle tools out of the reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

• Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

• Use only accessories that are recommended for your tool. Accessories that may be suitable for one tool may become hazardous when used on another tool.

• Keep handles dry and clean; free from oil and grease. Allows for better control of the tool.
Service

• Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified repair personnel could result in injury.

• When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual. Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electrical shock or injury.

Foot Switch Safety

Using a power drive or threading machine without a foot switch increases the risk of serious injury. A foot switch provides better control by letting you shut off the motor by removing your foot. If clothing should become caught in the machine, it will continue to wind up, pulling you into the machine. Because the machine has high torque, the clothing itself can bind around your arm or other body parts with enough force to crush or break bones.

Machine Safety

• Power Drive is made to thread and cut pipe or bolt and to power roll grooving equipment. Follow instructions on proper use of this machine. Do not use for other purposes such as drilling holes or turning winches. Other uses or modifying this power drive for other applications may increase the risk of serious injury.

• Secure machine to bench or stand. Support long heavy pipe with pipe supports. This practice will prevent tipping.

• Do not wear gloves or loose clothing when operating machine. Keep sleeves and jackets buttoned. Do not reach across the machine or pipe. Clothing can be caught by the pipe or machine resulting in entanglement and serious injury.

• Operate machine from side with REV/OFF/FOR switch. Eliminates need to reach over the machine.

• Do not use this machine if the foot switch is broken or missing. Foot switch is a safety device to prevent serious injury.

Machine Safety (continued)

• Keep hands away from rotating pipe and fittings. Stop the machine before wiping pipe threads or screwing on fittings. Allow the machine to come to a complete stop before touching the pipe or machine chucks. This practice will prevent entanglement and serious injury.

• Do not use this machine to make or break fittings. This practice is not an intended use of the machine and can result in serious injury.

• Tighten chuck handwheel and engage rear centering device on the pipe before turning on the machine. Prevents oscillation of the pipe.

• Keep covers in place. Do not operate the machine with covers removed. Exposure to moving parts may result in entanglement and serious injury.

• Lock foot switch when machine is not in use
This will avoid accidental starting.

Description

The PT® Portable Power Hand Threader is an electric motor-driven machine designed to thread various water, electrical or gas pipe ranging from 1/2” to 2”. It is efficient and easy to carry (weight: 14 lbs). This machine can be widely used in equipment installation and construction industries and is an ideal device for increasing work efficiency, shortening construction time, securing construction quality, and decreasing work intensity.

Specifications:

Threading Capacity: Pipe 1/2" through 2"

Motor Type: Universal
Power: 1000 Watts
Volts: 110V / 60Hz.
Switch: heavy load, with safety lock.
Reduction Gearbox: Cast aluminum alloy.
Body: Hardened fiberglass plastic shell.

Length: 19.5”
Weight: 14 lbs.

Contact an ARGCO-PT distributor or consult the ARGCO catalog for specifications on roll grooving equipment.

Standard Equipment

PT® Portable Hand Power Drive
•Six Die heads with dies: 1/2”, 3/4”, 1”, 1-1/4”, 1-1/2”, 2”
•Support Arm

Machine Inspection

⚠WARNING

To prevent serious injury, inspect your hand power threader. The following inspection procedures should be performed on a daily basis:
1. Make sure Threading Machine is unplugged and the directional switch is set to the OFF position.

2. Clean the speed chuck jaws with a wire brush.

3. Inspect the power cord and plug for damage. If the plug has been modified, is missing the grounding pin or if the cord is damaged, do not use the threader until the cord has been replaced.

4. Inspect the threader for any broken, missing, misaligned or binding parts as well as any other conditions which may affect the safe and normal operation of the machine. If any of these conditions are present, do not use the threader until any problem has been repaired.

5. Lubricate the Threading Machine if necessary according to the Maintenance Instructions.

6. Use tools and accessories that are designed for your threader and meet the needs of your application. The correct tools and accessories allow you to do the job successfully and safely. Accessories designed for use with other equipment may be hazardous when used with this threader.

7. Clean any oil, grease or dirt from all handles and controls. This reduces the risk of injury due to a tool or control slipping from your grip. Inspect the cutting edges of your tools and dies. If necessary, have them replaced prior to using the Threader. Dull or damaged cutting tools and dies can lead to binding, tool breakage and poor quality threads.

NOTE! Thread cutting oil lubricates and cools the threads during the threading operation. A dirty or poor grade cutting oil can result in poor thread quality.

Machine and Work Area Set-Up

⚠WARNING

To prevent serious injury, proper set-up of the machine and work area is required. The following procedures should be followed to set-up the threader.

1. Locate a work area that has the following:
• Adequate lighting
• No flammable liquids, vapors or dust that may ignite.
• Grounded electrical outlet
• Clear path to the electrical outlet that does not contain any sources of heat or oil, sharp edges or moving parts that may damage electrical cord.
• Dry place for machine and operator. Do not use the machine while standing in water.

2. Clean up the work area prior to setting up any equipment. Always wipe up any oil that may have splashed or dripped from the machine to prevent slips and falls.

Safety Requirements

⚠WARNING

To avoid electrical shock and electrical fires, never use an extension cord that is damaged or does not meet the following requirements:
•The cord has a three-prong plug similar to shown in Electrical Safety section.
•The cord is rated as “W” or “W-A” if being used outdoors.
•The cord has sufficient wire thickness (14 AWG below 25’/12 AWG 25’-50’). If the wire thickness is too small, the cord may overheat, melting the cord’s insulation or causing nearby objects to ignite.

⚠WARNING

To reduce risk of electrical shock, keep all electrical connections dry and off the ground. Do not touch plug with wet hands.

9. Check the Threading Machine to insure it is operating properly.
•Flip the directional switch to FOR (Forward). Press and release the foot switch. Check that the Threading Machine rotates in a counterclockwise direction as you are facing the front chuck. Have the Threading Machine serviced if it rotates in the wrong direction or if the foot switch does not control its stopping or starting.
•Depress and hold the foot switch. Inspect the moving parts for misalignment, binding, odd noises or any other unusual conditions that may affect the safe and normal operation of the machine. If such conditions are present, have the machine serviced.
•Flip the directional switch to REV (Reverse). Press and release the foot switch. Check that that Threading Machine rotates in a clockwise direction as you are facing the chuck.
•Release the foot switch and flip the directional switch to OFF.

Operation

⚠WARNING

Do not wear gloves or loose clothing when operating Power Drive. Keep sleeves and jackets buttoned.

Do not use this Power Drive if switches are broken.

Always wear eye protection to protect eyes from dirt and other foreign objects.

When threading pipe 3/4" or larger, use the Support Arm to resist high handle force developed during threading.

⚠WARNING

Do not use this machine to "make-on" or "break off" fittings. This practice is not an intended use of this Threading Machine.

Threading

1. Push die heads, spline end first, squarely into the Power Drive until the spring engages securely.
NOTE! Installation can be made from only one side of the Power Drive.

1. Press the bottom of the die head spline down and put it into the threader wormgear until it is secured by the spring.

2. If possible, secure the pipe in a portable tristand vise or a bench vise. To prevent tipping, long lengths of pipe should also be supported with pipe stand.

3. Have a can of spray oil available and in front of the vise.

4. Position Support Arm on pipe so end of support arm is in line with end of the pipe. Make sure jaws squarely contact pipe and tighten handle firmly to prevent slipping of the jaws.

⚠WARNING

To avoid serious injury from losing control of the Power Drive, a support arm should be used when threading 3/4" or larger pipe.

When threading pipe less than 3/4" in size without a support arm, hold onto the Power Drive firmly with one hand to exert pressure against the handle forces developed during threading.

5. Position the directional switch for the desired right or left hand thread.

6. Place Die Head over end of pipe. For right hand threads, Die Head will rotate clockwise (looking at the face of the die head). Forces developed by the threading torque will be in the opposite (counter-clockwise) direction.

7. Simultaneously actuate the ON/OFF switch and exert pressure against the Die Head with the palm of free hand to assist in starting thread. Apply plenty of thread cutting oil to the dies during threading. This will reduce the torque required to thread and improve the thread quality.

8. Keep ON/OFF switch depressed until end of the pipe is even with edge of the dies. Release the switch button.

9. Back off the Die Head from the threaded pipe, reversing the directional switch and actuating the ON/OFF switch.
Hold onto the Power Drive handle firmly to resist handle forces developed while backing off the Die Head.

10. When dies clear the end of the pipe, grip the handle on top of the Power Drive and remove the Power Drive and Die Head from the pipe.

⚠WARNING

11. Remove the support arm from the pipe and the pipe from the vise.

To avoid injury, make sure long sections of pipe are supported at the end farthest away from the vise prior to removal.

12. Clean up any oil spills or splatter on the ground surrounding

Maintenance Instructions

⚠WARNING

Make sure machine is unplugged from power source before performing maintenance or making any adjustment.

Motor Brush Replacement

Check motor brushes every 6 months and replace brushes when they are worn to less than 1/4".

⚠WARNING

Machine Storage

Motor-driven equipment must be kept indoors or well covered in rainy weather. Store the machine in a locked area that is out of reach of children and people unfamiliar with threading machines. This machine can cause serious injury in the hands of untrained users.

Service and Repair

Service and repair work on this Threading Machine must be performed by qualified repair personnel.

When servicing this machine, only identical replacement parts should be used. Failure to follow these instructions may create a risk of electrical shock or other serious injury.

If you have any questions regarding the service or repair of this machine, call or write to:
ARGCO Piping Tools Division
Technical Service Department
5400 S. 66th Street
Ft. Smith, AR 72903
Tel: (800) 230-6636
E-Mail: TechServices@argco.com

Do not operate the threading machine with cover off. Always replace cover immediately after installing brushes.

WARRANTY:

ARGCO stands behind all PT® tools - no questions asked.

The Power Threader Threader is warranted for 30 days to be free of defects in workmanship and material.

How long coverage lasts:
This warranty lasts 30 days from date purchased. Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

Service:
To obtain warranty benefits, ship product to ARGCO, Ft Smith, Arkansas. Warranted products will be repaired or replaced, at ARGCO's option, and returned at no charge.

What is not covered:
Failures due to misuse, abuse or normal wear and tear are not covered by this warranty. ARGCO shall not be responsible for any incidental or consequential damages.

No Other Express Warranty Applies
This Full One Year Warranty is the sole and exclusive warranty for ARGCO products. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of the ARGCO Inc.

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