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

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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.

Portable Electric Pipe Threader

I. Introduction

This threader is for threading of various water, electric or gas pipes ranging from **1/2" to 1-1/4.** It's efficient and easy to carry(weight 6.2 kilograms).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 working intensity. Read this manual carefully before using the machine.

Caution: This machine is an electric tool. Read all directions and instructions below. Operating that does not follow the directions may cause electric shock, burn or other accidents.

II. General requirements

1. The threading machine can work at the rated parameters under the following conditions:

   A. Altitude not exceeding 1000m;

   B. Ambient temperature: -15℃to40℃;

   C. Relative humidity not exceeding 90% (25℃);

2. Working voltage fluctuation shall be ±10% (i.e.108V~ —132V ~).

3.Environmental temperature for transport shall: -25℃to+ 55℃

4.The threading machine shall be kept in a dry storage room without incursion of hazardous gas. It is forbidden to store it together with acid and alkaline matters. Period of storage of the threading machine is one year.

III. Safety Requirements for Electric Tools

1. Keep the working site clean and bright. Any disorder and darkness may cause accidents.
2. Operating electric tools nearby the inflammable, explosive materials is not allowed. The sparks made by electric tools may cause explosion.
3. Keep children and onlookers away when operating the machine. Distraction of attention may cause accidents.
4. Onlookers are forbidden to touch this threader or its junctions. The precautionary measures may lead to less likeliness of accidents.
5. Double insulation device is equipped with a polarizing plug. This plug fits polarizing plug seat only at a specific point. If they do not fit, the polarizing plug seat must be installed only by the professional electric engineer. The operator can not move the plug himself. Double insulation takes place of the three-wire ground wire and ground insulation device.
6. Do not expose electric tools to the rain or put it in the damp. Wet electric tools may cause electric shock.
7. Ensure that power source fits technical parameters on the data plate when alternating current main is connected. Unmatched voltage may give rise to electric shock or burn.
8. Electric tools are allowed to use only when the operator keeps a clear head and knows what he is doing. Distraction of attention

may cause accidents.

9. The operators are required to be neatly dressed in case that hair, clothes or gloves are drawn into the machine.
10. Avoid abrupt start. Make sure that the switch is the position of "off" before installing tools. Moving tools with fingers on the switch or installing tools with the switch on may cause accidents.
11. Operating at a place too further away than as required is for bidden, Stand at the stable bedplate and keep the operator well-balanced to keep the threader under better control.

IV. Technical Parameters

Hand threader employs concatenated motor, double insulation devices and heavy-load motor driver, Its double insulation is as protective as three-wire ground installation.

Threading Specifications: 1/2" to-1-1/4"

Motor: concatenated motor: 1700W,110V～/60Hz

Switch: heavy-load switch, complete with safety lock, cut-off and normal-reverse switches.

Reduction gearbox: box body cast with aluminum alloy, ever-lasting lubricating.

Body: plastic shell and handle hardened by durable heavy-load fiberglass

Length: 500mm

Weight: 6.2kg

Noise (measured according to EN60745-1:2003+A1:2003no load)

Sound pressure level: 95.2dB(A)

Sound power level: 106.2dB(A)

Vibration (measured according to EN60745-1:2003+A1:2003no load) $<1.034m/s^2$

Hold the electric threader handle tightly with one hand and apply force on threading with help of torque.

Accessories:

Four screwing die heads: 1/2", 3/4", 1" and 1- 1/4"

Packaging: Plastic Shell

Electric brush(for threader only): one

Support Arm: one

Physical Dimension: 500mm×180×90mm

V. Operation

1. Press the bottom of the screwing die head spline down and put it into threader wormgear until it is fixed by the spring.(Fig.1)

Caution: It should be injected with grease gun proper grease into the hole within thirty days.

Figure 1

2. Fasten the pipe to the three-legged support pincers or the bench vice.

Caution: Support arm can be used and the pipe must be fixed when threading the pipes whose diameter is bigger than26.4mm.

(Every surpasses 41.9mm the pipeline processes when must add the fixed pliers. Otherwise is easy to create the machine damage.)

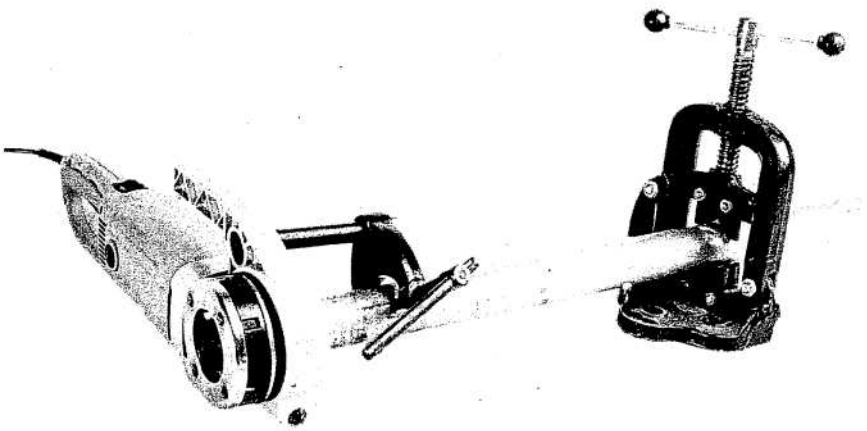


Figure 2

3.Attach support arm tightly to the pipe to ensure that the top of torque scissors parallels the top of the pipe(Fig.3)

Hold the electric threader handle tightly with one hand and apply force on threading with help of torque.

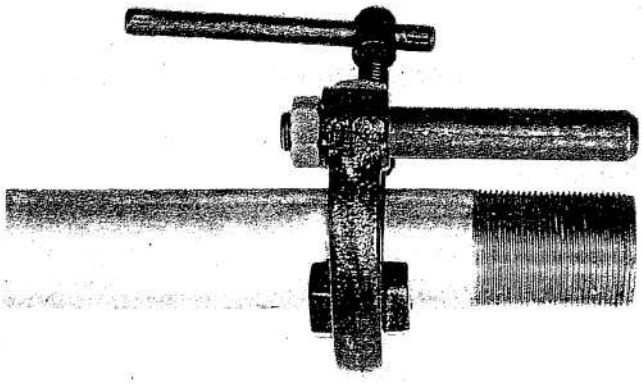


Figure 3

4. Place screwing die head to one side of the pipe to ensure that electric threader stands a proper position on support arm .Make sure that die head rotates clockwise when threading. When the threader is held with one hand, move the die head close to the pipe, star. the machine, then apply force on the die head with another hand until two or three threads are cut. Then stop applying force.

Note: Be sure that enough cutting oil is available when threading the pipe.

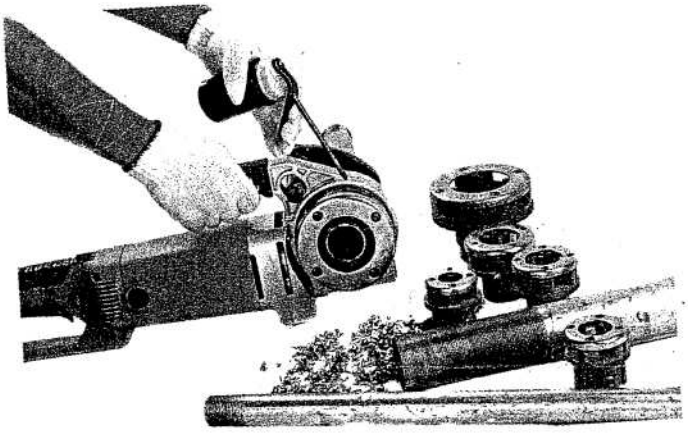


Figure 4

5. Turn switch on and keep it down until the screw chaser surface rim occurs at the top of the pipe. Turn the switch off and to cut the electric threader off.
6. Reverse the direct reversing switch to remove the screwing die head.

Caution: Hold the threader handle tightly to bear the start torque.

VI. Operating and Suggestion

1. Electric threader is for threading. Be sure to follow the directions of the user's manual to avoid accidents.
2. Blunt broken die heads are forbidden. Sharp knife is better.
3. Fasten the electric threader with support arms to make it within control.
4. Electric threader is not allowed to work when the momentary contact switch is damaged.
5. Keep the handle dry and clean and make it clear of oil or lubricator.
6. Fix and support workpicces with grip holders or other devices on stable platform.
   Do not hold workpieces with hand. Do not lean them against the operator.
   Unreliable fastening will make workpieces out of control.
7. Do not bring pressure on tools. Use right tools.
8. Tools that can not be switched on or off are forbidden. Using these tools is risky.
9. Switch the electric power off before adjusting, replacing or installing workpieces.
   This safety measure will prevent workpieces from unexpected start.
10. Make the tools out of the reach of children and persons without special training when they are not in use to avoid danger.
11. Keep the tools in good maintenance. Keep the knife sharp.

12. Examine the unsymmetry, connection, and damage of the moving parts, Broken tools are forbidden unless they are in good repair.
13. Check insulation property of this machine and its wires. Replace the damaged ones.

Ⅶ. Maintenance

Caution: Be sure to switch the threader off before maintaining it.

- **Replacing electric brush**

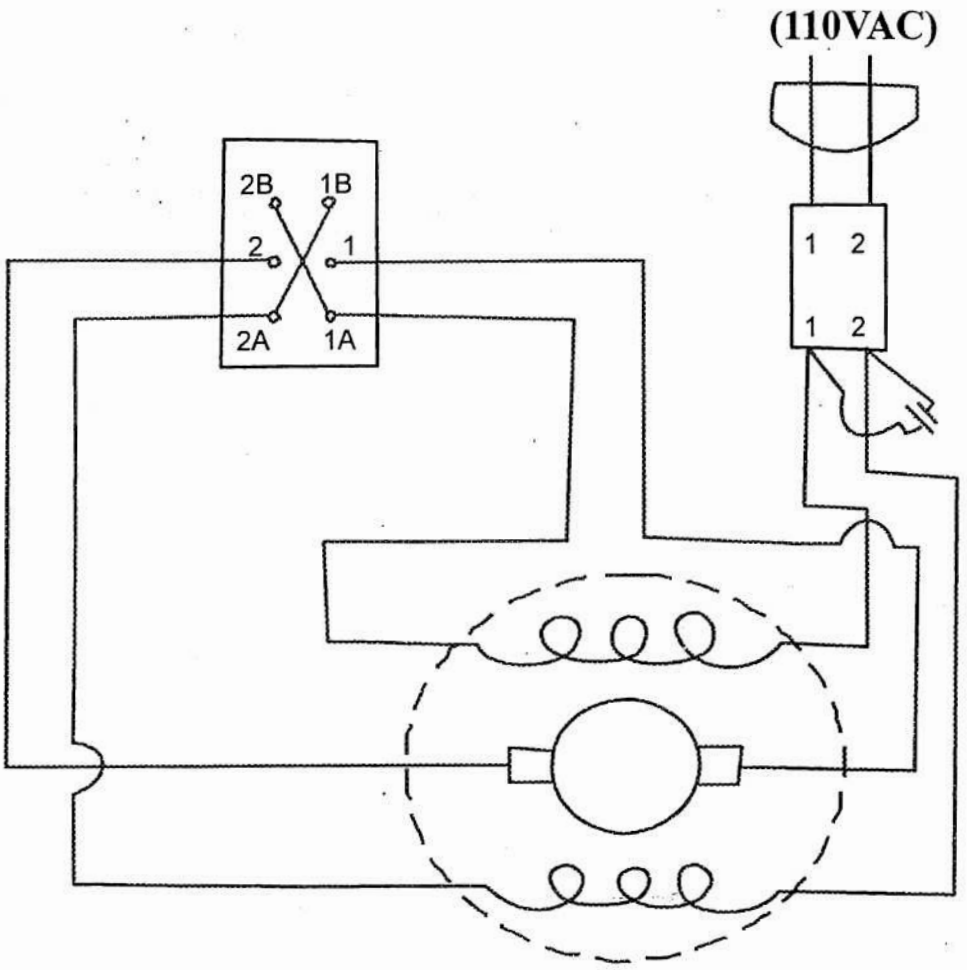
Check the electric brush of the motor every two months, Replace it when the part that is worn out is more than ¼

- **Faults and remedies:**

Fault	Cause	Remedy
The motor does not run	The threader is not connected with power	Insert the plug into the power seat.
	The fuse is blown	Replace the fuse
	The electric brush does not contact the rotor	Check the electric brush and replace it if it is broken
The motor can not bear the load.	The blunt screwing die leads to overload.	Replace the die.
	The cutting rim of thread is not qualified.	Use threading cutting oil

The inside of the motor sparks.	There is a loose contact between brushes.	Fasten the screws to make sure the electric brush is closely attached to the rectifier.
The screwing die head does not thread	Screwing dies become blunt or broken	Replace the die.
	The machine rotates in wrong direction.	Check direct reversing switch devices.
	The screwing die is not properly placed.	Replace the die.
The threads are broken	The screwing die is blunt.	Replace the die.
	Threading dies are not placed according to sequence codes.	Place dies in right sequence.
	The pipes are not qualified	Use high-quality pipes only
	Insufficient or unqualified cutting	Use ample cutting oil
Support arm rotates when cutting the threads.	Claws of support arm are not clean or are covered with waste.	Clean it with a file steel brush.
Screwing die heads can not be replaced.	There is burr in die grooves.	Remove the burr with a file

Threader's Schematic Diagram



Storage: Store this threader in a dry place to avoid humidity and electric shock.

ONE YEAR WARRANTY:

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

All PT® tools are warranted to be free of defects in workmanship and material.

How long coverage lasts:
This warranty lasts one year 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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