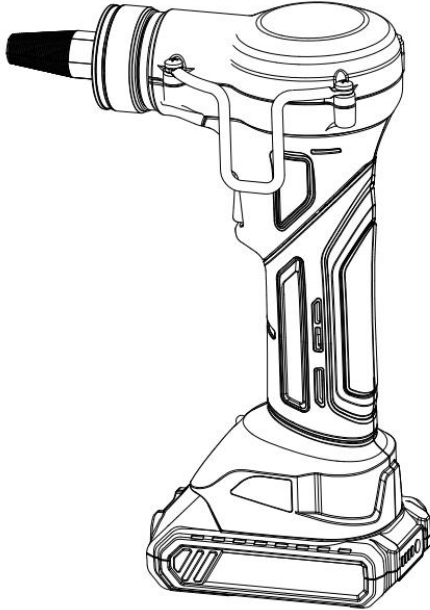


Instruction Manual

Cordless Tube Expanding Tool ME-1225



Due to continuing improvements, actual product may differ slightly from the product described herein.



Read this material before using this product.

Failure to do so can result in serious injury.

SAVE THIS MANUAL

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Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the month and year of purchase. Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

GENERAL SAFETY RULES

TO WORK IN SAFE CONDITIONS WITH THIS TOOLING, IT IS IMPERATIVE TO READ CAREFULLY THE DIRECTIONS FOR USE AND TO FOLLOW THE INSTRUCTIONS IT CONTAINS. IF YOU DO NOT RESPECT THE INFORMATION WRITTEN IN THAT INSTRUCTION MANUAL THE WARRANTY WILL BE CANCELLED.

1. Work area safety

- a. Keep work area clean and clear. Cluttered or dark areas invite accidents.
- b. Please do not use or store the tool under high temperature, or one surrounding filling with corrosive fluid. Pay attention to the sealing kits becoming aging.
- c. Keep children and bystander away while operating the Battery powered tool. Distractions will cause you to lose control.
- d. Do not use or charging the tool around flammable, explosive environment

2. Electrical safety

- e. Make sure the plug matches with the plug seat. Never try any changes on the plug.
- f. Do not put tool, battery and charger under a rainy or humid surroundings, it is easy to trigger an electric shock accident if any water goes into the electric system of the tool.
- g. Do not use electric wire to carry, pull, or to draw out the plug and do not connect the “-” and “+”, the damaged or twined wire may cause an electric shock accident.
- h. If the charger was strongly crashed, or dropping down or any other damages happening, please do not try to repair it by yourself, send it back to the authorized service center as soon as possible. The damaged charger may cause an electric shock accident.

- i. The best temperature for charging is between 10°C-40°C. Make sure the air hole of the battery and charger are uncovered during charging.
- j. Please cut off the power of the charger each time to reduce the hazard from child or the person who not expert on the tool.
- k. Do not wait until the battery runs over for recharging, the recharging will caused the battery does not working anymore. Please keep the battery out of the tool to avoid the power discharge.
- l. Please do not burn the battery or make it being short-circuited, it may cause explosion.
- m. Do not use the waste battery otherwise it will cause the electric shock.
- n. Do not disassemble the battery and charger. If any problem please contact with manufacture or agent.

3. Personal safety

- o. Stay alert, watch what you are doing and use common sense when operating the tool. Do not use the tool while you are tired or still under the influence of drugs, alcohol or medication. A moment of inattention may result in series personal injury.
- p. Use safety equipment. Always use safety equipment such as mask, helmet, safety cap, insulating shoes and etc to reduce the risk of personal injury.
- q. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes jewelry or long hair can be caught in moving parts.
- r. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool operation. If damaged, have the tool repaired before use. Many accidents are caused by poorly maintained power tools.
- s. Please use the tool properly, the tool with correct power will do the job better and safer at the rate for which it was designed.
- t. Do not put your fingers into the head of the tool during operating. Your fingers could be pinched very severely.

4. Service

Have your Battery Powered Tool serviced by a qualified service technician using only identical replacement parts. This will ensure that the safety of the Battery Tool Kit is maintained.

SPECIFIC SAFETY RULES

- 1) Maintain labels and nameplates on the tool which carry important safety information. If unreadable or missing, contact the agent to replace.
- 2) This product is not a toy, keep it out of reach of children.
- 3) Do not put your fingers into the head of the tool during operating. Your fingers could be pinched very severely.
- 4) Make sure the head was locked firmly during operation.
- 5) Do not knock any parts of the tool, otherwise it will cause injury.
- 6) Do not operate at will, it will damage the MCU and electric system
- 7) Do not use this tool for continuous use. After 30 to 40 cycles, allow the tool to cool for 15 minutes.
- 8) Do not secure this tool in a vise. This tool is designed for hand-held operation.
- 9) The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

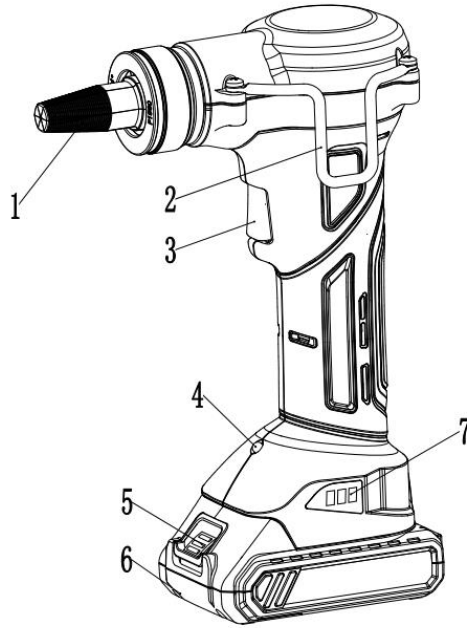
UNDERSTAND YOUR TOOL

ME-1225 is a tool for expanding PEX-a material. It carries more advantages of high efficiency, easy operate. The tool is powered by Li-ion, actuated by motor. It is a perfect tool to be used to connect PEX-a tube and ring.

1. Specification

Item No.:	ME-1225
Expanding range:	PEX-A pipes 3/8" to 1"
Voltage/capacity:	18V/2.0Ah
Charging voltage:	AC 100V~240V ;50~60Hz,output 3.0Ah
Charging time:	Approx.40mins
Ambient temperature:	-10-40℃
Weight:	2.45kgs(with battery)
Size of tool:	193x94x270mm
Accessories:	
Expander heads:	1/2", 3/4", 1"
Battery:	2 pcs
Charger:	1 pc

2. Description of components:



Parts No.	Description	Function
1	Expander heads	For expanding, interchangeable expander heads
2	Pothook	For carrying
3	Trigger	For starting operation
4	Light (LED)	For lighting
5	Battery lock	For locking/unlocking the battery
6	Battery	For supplying power, rechargeable Li-ion (18V)
7	Electric display	For showing electric

3. Function description

Auto-rotating expander head—Long pressing the trigger, the expander cone

will rotate over and over, also expander head will expand, retract, and rotate.



Electric display-- For showing electric.

If a deviation from low battery electric or an incorrect operation is identified, the microcomputer will sound and LED light flashes. (See Table1)



structure of the tool is compact. It is ergonomically designed with better grip and an optimized center of gravity for easier operation.



A temperature sensor makes warning when the tool continues working and temperature over 75°C.

Table 1 Signal Instruction and Meaning:

Function	Reminder	What it means
Self-checking	Led and the three electric lights flicker twice	Self-checking to assure everything is ok
Low electric	Led and one electric light flicker once	Battery reloading or press start button when the reminder finish to recovery work
High pressure	The three electric lights flicker once	
Overcurrent protection	Led and the three electric lights flicker quickly for one minute	

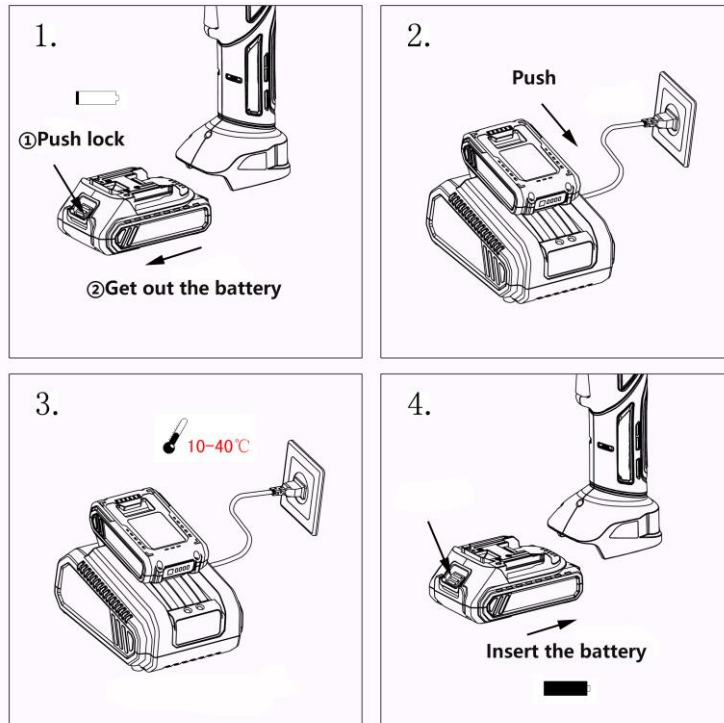
OPERATING INSTRUCTION

Read the entire SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before using this product.

Use this tool for the manufacture's intended purpose only. Use other than that which is described in this manual can result injury or property damage.

1. Charging

Push battery into charger and connect the plug with the plug seat. Make sure the room temperature is between 10°C-40°C. Please see the illustration below.

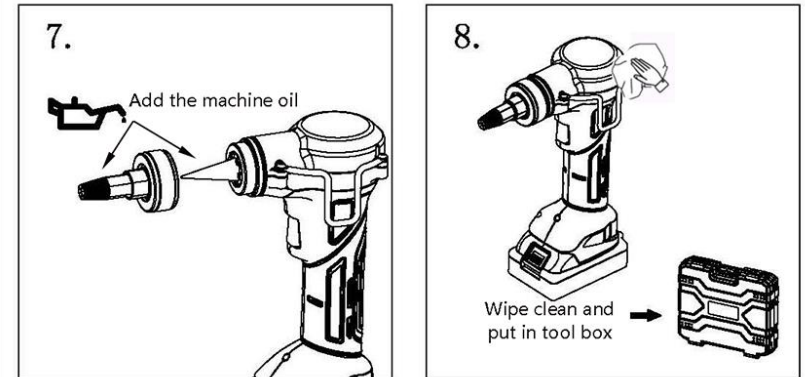
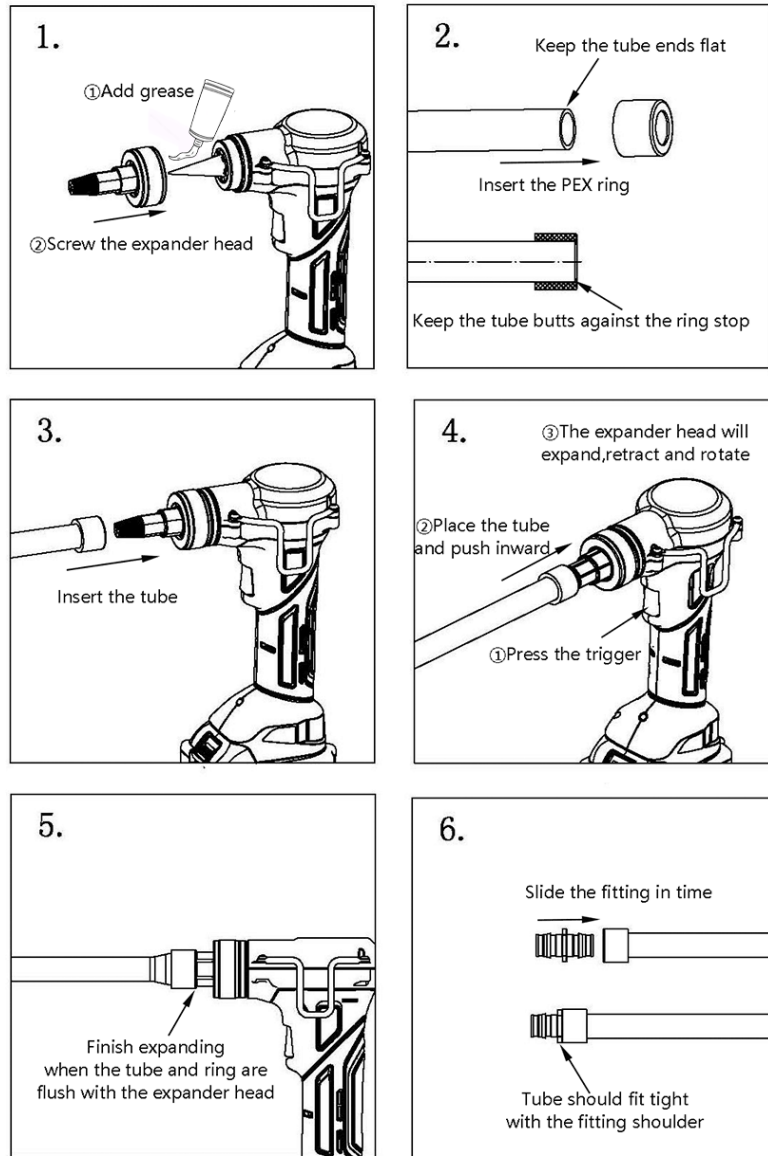


The detail of the charging information, please refer the manual (MANUAL FOR CHARGER)

⚠ CAUTION

- 1) When use the factory original battery, must charge by the original charger. 4.0Ah/5.0Ah battery charging current shouldn't exceed 5A. 2.0Ah battery charging current shouldn't exceed 3.0A. The battery will be smoking, burnt, even explode if charge with a non-compliant charger.
- 2) The battery can be used for hundreds of times, when the life span reduced obviously, change to a new battery please.
- 3) Please charging the battery in time to avoid it to be used up absolutely; otherwise it will become useless forever. If the battery not be used for a long time, it will discharge automatically. Make sure to charge it one time per/each quarter.
- 4) Do not connect the two poles of the battery with a wire, keep away from other metal objects like clips, coins, keys, nails, bolts and so on. Which maybe cause electric spark, combustion or even explosion.
- 5) Do not use the damaged battery or charge it, or it will increase the risk of electric shock.
- 6) Under no circumstances should batteries be burned, or they may explode.
- 7) When charging the battery, do not cover the charger with any object, so that the charger cannot dissipate heat, which is likely to cause fire.
- 7) Disconnect the charger when not in use. It will reduce the risk of injury to children and untrained personnel.
- 8) Do not use the charger in humid environment, and do not expose to rain and snow, or it will increase the risk of electric shock.
- 9) Do not disassemble the battery and charger without permission. If there is any fault in the process of use, please send it to the professional or the manufacturer for maintenance, until the problem is solved.

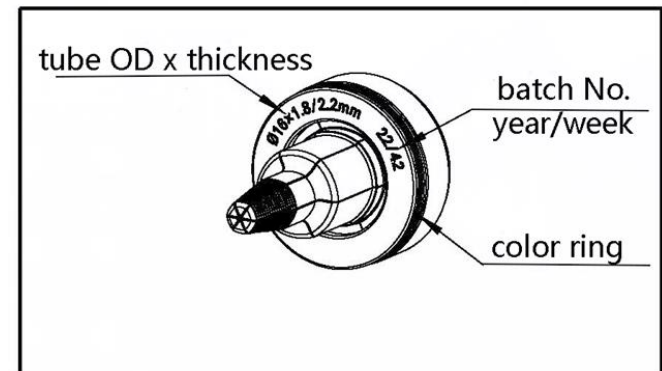
2. Usage of the tool



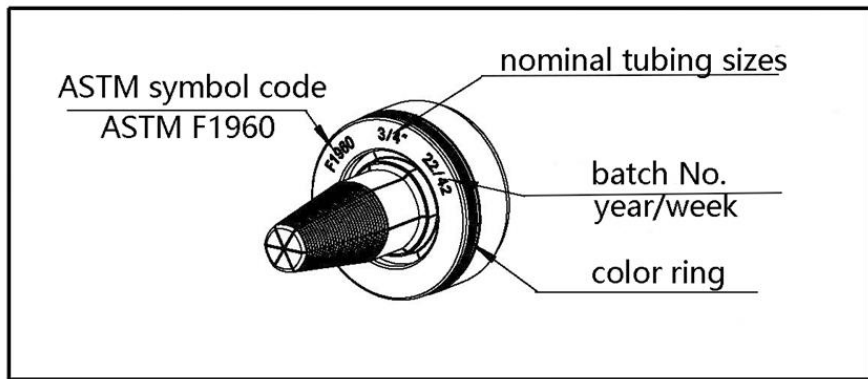
3. Expander head

3.1 Introduction of laser, size and color

European standard		
NO.	size	color
1	16x1.8/2.2	yellow
2	20x1.9/2.0	orange
3	25x2.3	red
4	32x2.9	green



American standard		
NO.	size	color
1	3/8"	orange
2	1/2"	blue
3	5/8"	grey
4	3/4"	green
5	1"	red

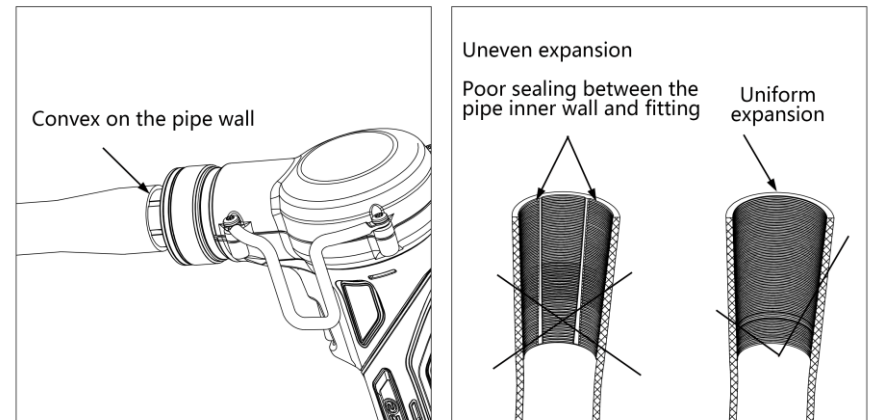


3.2 Cycles of expansions

Expanding heads	Cycles of expansions
16x1.8/2.2	4-6
20x1.9/2.0	6-8
25x2.3	8-12
32x2.9	22-25

Note: The cycles of expansions are influenced by weather and technique. More expansions are needed if below 4°C, suggest not work below -15°C.

Note: When expansion, do not push the pipe too fast or expand the pipe too little cycles, which will easily lead uneven expansion, poor sealing between the pipe inner wall and fitting.



MAINTENANCE AND SERVICING

- 1) Do not hammer or knock any part of the tool. Before operation, check the tool for any damage, aging, missing parts, misalignment or component jamming and any other unfavorable factors that endanger safety and normal operation. It works effectively without any jams. If you find any problems, stop using them immediately until the problem is solved.
- 2) It's a tool for expanding PEX-a material. The expander head and tube fitting maybe broken if for other material..
- 3) Remove any grease, dust, especially on the handle and control components, to prevent the tool from slipping during use.
- 4) Store tool with expander head installed, to protect cone from damage.
- 5) There should be no burr and crack in the tube. Keep the tube butts against the ring stop. And chose the correct expander head. Avoid cracking of tube or improper connection.
- 6) The expander head will expand, retract and rotate. Please make sure the expander head will rotate each cycle. To makes uniform expansion, keep the tube in place and inward. Finish expanding when the tube and ring are flush with the expander head. There may cause waterproof if the tube isn't in place.
- 7) After expanding,the slip distance of the PEX ring shall not be greater than 1.6mm.Please connect a new PEX ring and make a new expanding if it more than 1.6mm.
- 8) Wipe clean and apply a little grease to the cone before installing expander head. But do not apply too much to avoid contaminating the plumbing system.
- 9) When replacing or removing spare parts, take off the battery to prevent personal safety accidents caused by misoperation.



Warning: During the operating, do not put any part of the human body such as your fingers into the working jaws to avoid accidents!

LIMITED 1 YEAR WARRANTY

We make every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase(90 days if used by a professional contractor or if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product. The warranty gives you specific legal rights and you may also have other rights which vary from state to state.