Charge

4.1 Press tabs on both sides of battery to remove it.

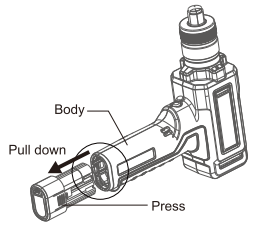


Fig.7

4.2 Please use a Type-C data cable for charging.

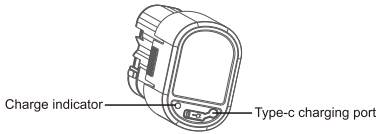


Fig.8

Normal charging: The indicator flashes slowly
Fully charged: The indicator stays on
Charging error: The indicator flashes quickly

Battery pack information:

1) Fast charging protocol: Supports PD3.0/FCP/AFC/QC, compatible with C to C\A to C interfaces, charging time remains the same as original charger at 45 minutes.

2) Versatility: Can be used as a small portable power bank to charge mobile phones etc.

3) Compatibility: Compatible with all VALUE 7.2V lithium power tools, original charger can also charge the battery pack.

Note: This product's battery pack is compatible with both Type-C universal fast charging and VALUE brand dedicated dock charging functions. It is recommended to prioritize the former. If using dock charging, the battery pack may enter overvoltage protection state after full charge - this is a normal phenomenon that does not affect the battery pack's discharge function, charging safety, or service life.

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Charge

4.3 Place back the battery pack.

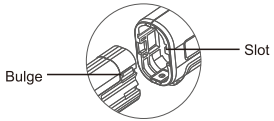


Fig.9

Oil Change

To ensure the excellent performance of the expander, replace hydraulic oil every 1 year or every 6000 expansions.

How to change oil:

1. Put cone sleeve on the oil bottle cone, and then the O-ring.
2. Unscrew the small screw of oil change cover and remove it.
3. Use flat head screwdriver to unscrew the refueling plug (clean up dust near the refueling hole to prevent dust from falling into).
4. Turn expander upside down, press the exhaust pressure plate, drain old oil from expander, turn expander over, lay expander flat. (Dispose of used oil properly)
5. Press the exhaust pressure plate while inserting oil bottle into the refueling hole.
6. Loosen the exhaust pressure plate. After the exhaust pressure plate returns to its original position, press it repeatedly until no more bubbles get in oil bottle.
7. Pull away oil bottle, put back refueling plug screw, screw oil change cover back on expander.

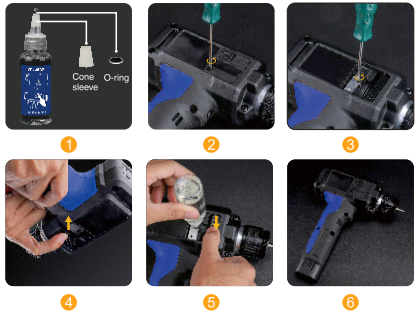


Fig.10

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Lubrication

Add appropriate amount of grease to the cone hole ofexpander head regularly to avoid expander head frombeing stuck or unable to reset during the expansion process due to poor lubrication.

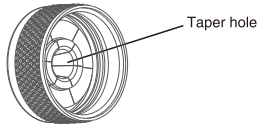


Fig.11

Caution

1. Put expander back into its box after work to prevent water and dust from entering expander.
2. If expander is used continuously for long time, it may trigger temperature protection, the indicator will flash 5 times. Wait until expander cools down for a while, after temperature drop back, you can used it again.
3. Expander will power off automatically if no activity for 20 seconds.
4. Use the dedicated oil bottle and hydraulic oil for oil change/refill to avoid damage to expander.
5. This expander is designed for soft copper tubes. If hard copper tube is used, tube must be annealed before operation, otherwise tube will not expand or will split. Hard copper tube that is not annealed will damage the tools and invalidate the warranty.
6. If abnormal shutdown occurs during operation, please follow below procedures:
   a. Push manual pressure release button to release the pressure;
   b. Remove and re-plug battery pack;
   c. Start expander again to see if the problem is solved;
   d. If problem is not solved, please contact VALUE technical support.

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VALUE
VALUE Creates Value

Making Your Job More Enjoyable

VTE Series

Power Tube Expander

User Manual

VALUE • Quality Assurance

Safety Guide

Caution: Read this manual thoroughly before using.

- Keep the working area clean and tidy.
- Do not operate while under the influence of alcohol.
- Keep children and untrained people from using.
- Use original parts and auxiliary.
- Long time using may overheat its motor which activate overheat protection.
- Temperature higher than 70°C or lower than 5°C may activate the motor overheat or subcooled protection.
- Don't dismantle VTE Series at random which may void warranty.
- Product is warranted against defects in materials and workmanship for two years from the date of purchase.
- Dispose the battery according to local regulations.
- Pending patent.

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Structure



Fig.1

Technical Parameters

Model	VTE-29D-S	VTE-42D-S
Tubing OD	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8"	1/4", 3/8", 1/2", 5/8", 3/4", 7/8", 1", 1-1/8", 1-1/4", 1-3/8", 1-1/2", 1-5/8"
Power	DC motor	
Cone Speed	120 rpm	
Battery Capacity	Up to 220 expanding per charge	
Time to Expanding	Complete a flare in 10 seconds	
Dimension	210x68x260 mm	
Weight	1.5 kg	
Accessary	VTT-5	

Battery pack

Battery	7.2V 2Ah 14.4Wh
Quick Charge	45 minutes
Ambient Temperature	5°C-40°C

Table 1

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Operation Instructions for Tube Expander

1.1. Tube expansion

(1) Deburr copper tube.
Deburring is recommeded before expanding, especially for 3/8" copper tubing.



Fig.2

(2) Anneal copper tube.
(Note1: Soft tube doesn't need to be annealed)

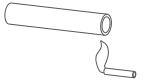


Fig.3

(3) Insert copper tube onto expander head, press start button to operate. The expander stops automatically after expansion is completed.

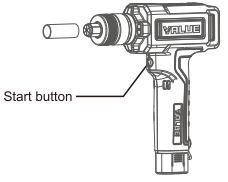


Fig.4

(If you accidentally press start button during operation, expander will stop working, press start button again to restore tube expansion operation)
(Note2: if start button is pressed but expander doesn't respond, manually release pressure by pushing pressure release button and then press start button again)

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Pressure Relief

2.1. Automatic pressure relief

Expansion pressure will be relieved automatically after tube expansion process is completed.

2.2. Manual pressure relief

Manual pressure relief push button is to be used only when expander is running abnormally (pressure relief button is shown in the figure below). When pressure relief is needed, push this button in the direction of arrow to release pressure.

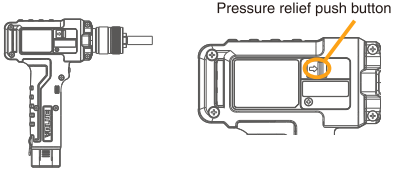


Fig.5

3. Illumination

3.1 Click light button to turn on light.

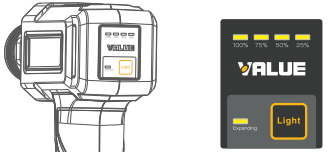


Fig.6