

# **CT-2600/LBT Tool Specification**

- I. SCOPE:** This specification defines the requirements for a 4 Ton battery operated, hydraulic tool and related components for terminating terminals. The tool uses CD-2600-xxx die sets. This tool is meant for intermittent use. This tool will include Blue Tooth connectivity to a cellular phone application that monitors tool performance.
- II. TOOL FUNCTION & FEATURES:**
- A. Mechanical Function:**
1. Tool output to be 4.0 tons (35 kN).
  2. Approximate cycle time to be 5-10 seconds without product.
  3. Tool ram to retract when the tool has reached its maximum output load.
  4. Tool head to open for removal for contiguous wire terminations.
  5. Tool to have built in locking feature to secure battery in place.
  6. Tool to operate on Lithium-Ion 18.0 VDC.
- B. Operational Features:**
1. Tool does not require any operator adjustments.
  2. Tool or battery to have a “low Battery” indicator light.
  3. Tool ram activated by depressing trigger. Tool ram while advancing holds position when trigger is released. Tool ram may have feature to “teach” the tool to a user set position.
  4. Tool to have manual retract/release button. Tool ram while retracting holds position when button is activated.
  5. Crimp head to rotate at least 330 degrees fully.
  6. No additional pinch points.
  7. MAKITA Battery voltage to be 18.0 VDC 4 A-Hr Lithium-Ion. Battery will recharge in about one hour or less.
  8. The tool shall have a digital screen on lower back edge of tool. The tool connects by Blue Tooth to a cellular phone application. The app will be available in Android, iOS and Windows PC platforms.
- III. DESCRIPTION OF USE:**
1. The operator pre-assembles the desired terminal.
  2. The operator properly positions the tool over the terminal and activates the crimp cycle multiple times to position and hold the terminal by pressing the ram advance trigger.
  3. Assemble wire into terminal.
  4. Press trigger to operate the tool ram. The tool ram continues to close as long as the operator holds the trigger, and stops as soon as maximum output force is reached
  5. The tool crimps the terminal until the maximum output force is reached. The operator may retract the tool ram by releasing the trigger and/or pushing retract button. After maximum output force is reached the tool ram returns automatically.
  6. When the maximum output force is reached, the tool ram starts to retract to indicate the crimp cycle is complete.
  7. The operator presses the ram retract trigger to open the dies. After maximum output force is reached the tool ram returns automatically.
  8. The operator removes the terminal from the tool.
- IV. TECHNICAL / PERFORMANCE SPECIFICATIONS:**
1. CD-2600-P2 and CD-2600-PV2 dies will crimp #2 AWG terminals with vinyl and Kyar insulation and non-insulated terminals.
  2. CD-2600-P4 and CD-2600-PV4 dies will crimp #4 AWG terminals with vinyl and Kynar insulation and non-insulated terminals.
  3. CD-2600-P6 and CD-2600-PV6 dies will crimp #6 AWG terminals with vinyl and Kynar insulation and non-insulated terminals.

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4. CD-2600-P8 and CD-2600-PV6 dies will crimp #8 AWG terminals with vinyl and Kynar insulation and non-insulated terminals.

## **V. LIFETIME PERFORMANCE:**

Lifetime Performance to be 50,000 cycles minimum of the tool. Performance is based on standard usage making sure all preventative maintenance requirements have been met on time.

## **VI. PHYSICAL CHARACTERISTICS:**

### **A. Approximate Overall Dimensions (with battery):**

1. Length: 14.2" (360 mm )
2. Width: 3" (76 mm )
3. Height: 4.9" (125 mm )

### **B. Weight: 5.3 lbs. (2.4 kg)**

### **C. Color and Texture:**

1. Tool housing to be black.

### **D. Environmental Requirements:**

1. 50° to 104°F (Battery Charging Temp.)
2. -4° to 104°F (Tool Operating Temp, w/o battery warmer)
3. 10% to 95% Relative Humidity
4. Must work in an indoor and outdoor environment.

### **E. Minimum Rate of Operation**

1. Minimum of 4 crimps per minute with 3 trigger pulls per crimp.

## **VII. PACKAGING**

- A. Tool to be packaged in a hard plastic case.
- B. Tool case must hold tool, dies, two batteries and charger.
- C. Batteries are to conform to regulatory specification for packaging.

## **VIII. REGULATORY COMPLIANCE**

- A. **Tool:** UL/CSA power connector/terminal compliance. Tool is to be CE tool compliant. Tool to be UL/CSA listed under UL 60745-1. Tool shall conform to IEC/EN 62841-1, ENV 61000 and ISO 12100. Tool is to be registered with Bluetooth SIG.
- B. **Charger:** UL/CSA power compliance. CE compliant charger.
- C. **Battery:** CE compliance required.

## **IX. OPERATION INSTRUCTIONS**

- A. Existing operating instructions with modifications are to be used.
- B. Alternate source Manufacturer's Battery and Charger manual to be used.

## **X. WARRANTY**

Tool warranty is 5 years. Battery is 1 year and Charger warranty is 2 years.

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### **XI. ACCESSORIES (PROVIDED WITH TOOL):**

- A. 2- Li-Ion 18.0 VDC rechargeable batteries.
- B. Manufacturer's battery charger and manual.
- C. Tool Case with storage for batteries, charger, crimp dies and tool.
- D. Operating Instructions (see section IX).
- E. Tool Safety Booklet

### **XII. ACCESSORIES (SOLD SEPARATELY):**

- A. Li-Ion 18.0 VDC rechargeable batteries (4.0Ah).
- B. Charger to be available in 115 VAC (US).
- C. CD-2600-xxx crimp die sets.