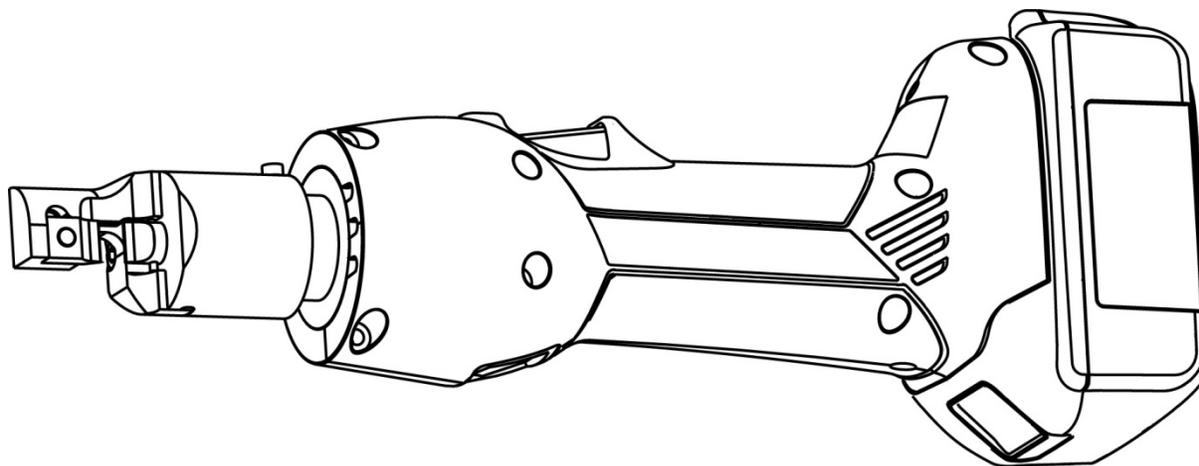


BATTERY OPERATED WYR-GRID CUTTER OPERATION MANUAL

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**TO REDUCE THE RISK OF INJURY, USER
MUST READ INSTRUCTION MANUAL**

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PURPOSE OF THIS MANUAL

- This manual is intended to familiarize the user with the safe operation and maintenance procedures for this tool.
- Use this tool exclusively for its determined use.
- This instruction manual should be available during the entire life span of the tool.
- **The operator has to ensure the availability of this instruction manual to the end user; and to make sure, that the user has read and understood this instruction manual.**
- Mounting and assembly of connecting material with the help of this tool must only be performed by specially trained personnel.

Replacement manuals are available upon request.

The information contained in this literature is based on our experience to date and is believed to be reliable. It is intended as a guide for use by persons having technical skill at their own discretion and risk. We do not guarantee favorable results or assume any liability in connection with its use. Dimensions contained herein are for reference purposes only. For specific dimensional requirements consult the factory. This publication is not to be taken as a license to operate under, or a recommendation to infringe any existing patents. This supersedes and voids all previous literature, etc.



NOTE: In the interest of higher quality and value, Panduit products are continually being improved and updated. Consequently, pictures may vary from the enclosed product.

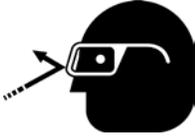
Safety

Safety is essential in the use and maintenance of Panduit tools and equipment. This manual and any markings on the tool provide information for avoiding hazards and unsafe practices related to the use or service of this tool. Observe all of the safety information provided.

PRECAUTIONS AND GENERAL GUIDELINES

Important Safety Information	
	SAFETY ALERT SYMBOL This symbol is used to call your attention to hazards or unsafe practices which could result in an injury or property damage. The signal word, defined below, indicates the severity of the hazard. The message after the signal word provides information for preventing or avoiding the hazard.
	DANGER Immediate hazards which, if not avoided, WILL result in severe injury or death.
	WARNING Hazards which, if not avoided, COULD result in severe injury or death.
	CAUTION Hazards or unsafe practices which, if not avoided, MAY result in injury or property damage.

	 WARNING Read and understand all of the instructions and safety information in this manual before operating or servicing this tool. The operator has to ensure the availability of this instruction manual to the end user; and to make sure, that the user has read and understood this instruction manual. Failure to observe this warning could result in severe injury or death.
	 WARNING Electric Shock Hazard: This tool is not insulated. When using this unit on or near energized electrical lines, use proper personal protective equipment. Failure to observe this warning could result in severe injury or death.

	<p>! WARNING</p> <p>Wear eye protection when operating or servicing this tool.</p> <p>Failure to wear eye protection could result in serious eye injury from flying debris or hydraulic oil.</p>
	<p>! WARNING</p> <p>Skin Injection Hazard:</p> <p>DO NOT use hands to check for oil leaks. High pressure oil easily punctures skin causing serious injury, gangrene, or death. If injured, seek medical attention immediately to remove oil.</p> <p>Failure to observe this warning could result in serious injury, gangrene, or death.</p>
	<p>! WARNING</p> <p>DO NOT use solvents or flammable liquids to clean the tool body. Solvents or flammable liquids could ignite and cause serious injury or property damage.</p>
	<p>! WARNING</p> <p>Cutting Hazard:</p> <p>Remove battery before changing dies, adapters, or jaws. Keep hands away from the cutting head when cutting.</p> <p>Failure to observe this warning could result in severe injury or death.</p>
<p>! WARNING</p> <p>DO NOT dispose of batteries in a fire. They will vent fumes and may explode.</p> <p>Failure to observe this warning could result in severe injury from harmful fumes or burns from flying debris.</p>	
<p>! WARNING</p> <p>Inspect tool and blades before use. Replace any worn or damaged parts. A damaged or improperly assembled tool can break and strike nearby personnel.</p> <p>Failure to observe this warning could result in severe injury or death.</p>	

**CAUTION**

- DO NOT operate the tool without cutting blades. Damage to the piston or cutting head can result.
- DO NOT twist work piece or tool during cutting operation. Blade failure could result.
- This tool is not designed for continuous use. After 100 cutting cycles, allow the cutting tool to cool for 15 min.
- DO NOT secure this tool in a vise. This tool is designed for hand-held operation.
- This tool may be used in damp or wet environments; however, air-drying is recommended before use if the tool becomes soaked. Damage may result when the tool is operated prior to thorough drying when electrical components are soaked.
- Use this tool for the manufacturer's intended purpose only.

Failure to observe these precautions may result in injury or property damage.

**CAUTION**

DO NOT allow anything to contact the battery terminals.

- DO NOT immerse the batteries in liquid. Liquid may create a short circuit and damage the battery. If batteries are immersed, contact your service center for proper handling.
- DO NOT place the battery into a pocket, tool pouch, or tool box with conductive objects. Conductive objects may create a short circuit and damage the battery.
- DO NOT place a battery on moist ground or grass. Moisture may create a short circuit and damage the battery.

Failure to observe these precautions may result in injury or property damage.

**CAUTION**

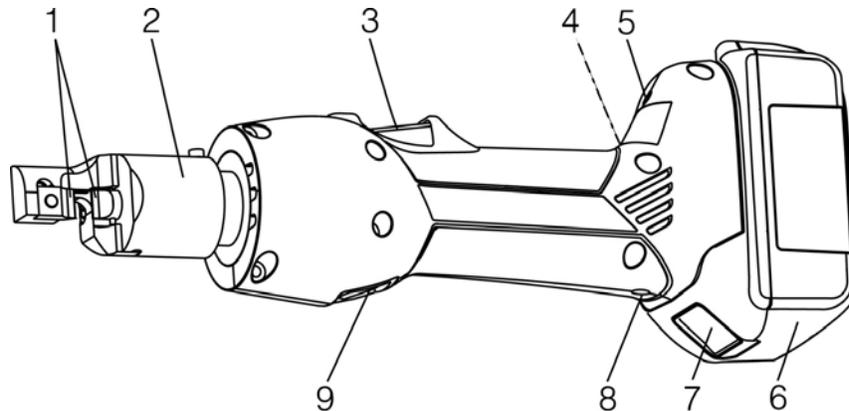
- DO NOT store the battery at more than 122°F (50°C) or less than -4°F (-20°C). Damage to the battery can result.
- DO NOT use another manufacturer's charger. Other manufacturers' chargers may overcharge and damage the battery.
- DO NOT attempt to open the battery. It contains no user-serviceable parts.

Failure to observe these precautions may result in injury or property damage.

**CAUTION**

DO NOT perform any service or maintenance other than as described in this manual. Injury or damage to the tool may result.

Failure to observe these precautions may result in injury or property damage.

IDENTIFICATION

Description	Function
1. Cutting Blades	Cutting blades cut Wyr-Grid Cable Trays
2. Cutting Head	Cutting head holds cutting blades.
3. Trigger	Actuator to start the cutting cycle
4. Lanyard Ring (opposite side)	Clip lanyard onto lanyard ring.
5. LED Work Light (white)	This LED automatically turns on when the trigger is pulled.
6. Battery Cartridge	Rechargeable Li-Ion battery, 18 V
7. Battery Lock	Switch for unlocking the battery
8. LED Indicator (red)	Flashes current status of tool (see chart on Page 7)
9. Retract Button	Button to open the cutting blades in case of an error or emergency

WGCT-A and WGCT-A/E Tools

The tools include:

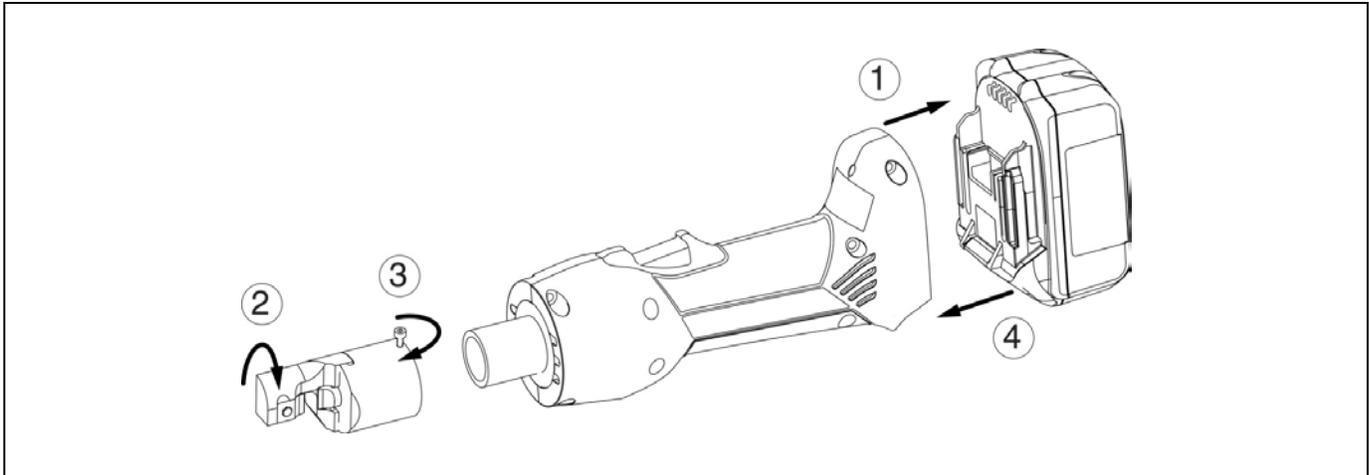
- 1 – Battery Operated Cutter Tool (with battery cartridge)
- 1 – Spare Battery Cartridge
- 1 – Battery Charger
- 1 – Tool Case

INSTALLING THE WGCT-HEAD ON HYDRAULIC POWER CHASSIS

1. Remove the battery.
2. Thread the WGCT-HEAD down completely onto the male thread of the hydraulic power chassis.
3. Apply Loctite® (included) to threads of head locking screw. Tighten the head locking screw. The WGCT-HEAD should now be able to rotate by no more than 350°.

Loctite® is a registered trademark of the Henkel Corporation.

4. Reinstall the battery.
5. Press the trigger to verify that the cutting dies actuate.



TOOL SPECIFICATIONS

WGCT-A & WGCT-A/E Battery Operated Wyr-Grid Cutter Tool	Dimensions:	
	Length (with battery)	12.00" (304.8 mm)
	Width	2.87" (72.9 mm)
	Depth	4.50" (114.3 mm)
	Weight	3.4 lb (1,5 kg)
	Hydraulic Oil	Shell Tellus® T 15
Recommended Operating Temperature Range:		-5° F to +122° F (-15°C to +50°C)

WGCT-A (USA) Lithium Ion (Li-Ion) Battery Cartridge	WGCT-A/E (EUR) Lithium Ion (Li-Ion) Battery Cartridge
<i>Makita®</i> 18V Battery Cartridge Part No.: BL1815, 18 V, 1.5 Ah Part No.: BL1830, 18 V, 3.0 Ah	<i>Makita®</i> 18V Battery Cartridge Part No.: BL1815, 18 V, 1.5 Ah Part No.: BL1830, 18 V, 3.0 Ah



30 min. (approx.)



0.45 kg / 1.0 lb. (approx.)



Refer to *Makita®* Operator's Manuals which are supplied with battery cartridge and charger.

WGCT-A (USA) Battery Charger		WGCT-A/E (EUR) Battery Charger	
<i>Makita®</i> Battery Charger Part No.: DC18RA		<i>Makita®</i> Battery Charger Part No.: DC18RA230	
Input:	120 Volt AC, 50~60Hz	Input:	230V 50-60Hz
Output:	7.2 V – 18.0 Volt DC	Output:	7.2 V – 18.0 Volt

Replacement Makita Battery Chargers and Battery Cartridges are available for purchase from local Makita products distributors or resellers.

Makita® is a registered trademark of the Makita Corporation

OPERATION



Please read all of the Important Safety Information before using this tool.

Charging the Battery

Read the instructions supplied with the battery charger.

LED Work Light (white)

This LED automatically turns on when the trigger is pulled. It remains on for 10 seconds after the trigger is released.

LED Indicator (red)

This tool is equipped with a special circuit board incorporating several important features to inform the user about the current status of the unit. The LED signals in the following cases:

WHAT HAPPENS	SIGNAL	WHAT IT MEANS
Flashing light for 2 seconds		Battery is inserted in tool
Constant light for 20 seconds at end of cycle		Battery charge is below 17 V at beginning of cycle
Tool will not start, and constant light for 20 seconds when trigger is released		Battery charge is below 16 V at beginning of cycle
Tool will stop, and constant light for 20 seconds after trigger is released		Battery voltage drops below 13 V during cycle
Tool will stop, and flashing light for 20 seconds when trigger is released		Motor current exceeds 20 A during cycle
		Circuit has become too hot

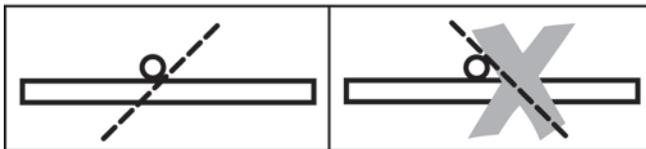
Important Features of the WGCT-A and WGCT-A/E Wyr-Grid Cutter Tools

- The hydraulic unit incorporates an automatic retraction which returns the piston and movable blade to the starting position when the maximum cutting force is achieved.
- The unit is equipped with a special brake which stops the forward motion of the piston when the trigger is released.

- The cutting head of the WGCT-A and WGCT-A/E have been designed to turn 350° around the longitudinal axis in order to gain the best access to tight corners and other difficult working areas.

Operating the Tool

1. Check cutting head to ensure the piston and movable blade are fully retracted. If necessary, pull the retract slide in the direction of the arrow.
2. After positioning the wire between the open cutting blades, actuate the trigger to start the cutting cycle.
 - a. Cut should be angled so that cut-off protrusions are minimized (see graphic below showing optimal cutting angle).



NOTE: The cutting process can be interrupted at any moment by releasing the trigger. By actuating the retract slide, the piston and movable blade will return to the starting position.

3. After reaching the maximum operating pressure, the piston and movable blade will automatically return to the starting position.

MAINTENANCE / INSPECTION

Daily Maintenance

Before Use:

1. Inspect the tool for wear or damage such as cracks, gouges, or chips.
2. Inspect the tool for damage or leaks. If damage is detected, contact Panduit.
3. Inspect the rotation of the head assembly. Fully retract the piston. The head should rotate no more than 350°. If damage is detected, send the tool to Panduit.

After Use:

1. Use a damp cloth and mild detergent to clean the housing. Allow the housing to dry.
2. Fully retract the piston. Place the tool in the carrying case and store in a cool, dry place.
3. If necessary, recharge the batteries. Refer to the instructions supplied with the battery charger.

Monthly Maintenance

1. Thoroughly clean all surfaces.

Annually or After 10,000 Crimps

Return tool to Panduit Tool Solutions Division (USA), or Panduit EMEA Service Center (EUR).

Cutting Blade Replacement

Panduit part number CD-WGCD-1 (Wyr-Grid Replacement Cutting Die) is used as replacement for worn or damaged cutting blades.



IMPORTANT

Relief valve adjustments must be done by Panduit Tool Solutions Division (USA), or Panduit EMEA Service Center (EUR).

Storage and Transport

Always store the tool in its clean, dry carrying case when not in use; and during transport. The battery cartridge and the battery charging unit should be protected against humidity and dust.

TROUBLESHOOTING

Before You Begin

1. Make sure that the battery is charged. Recheck the battery after several minutes to make sure the battery is holding its charge.
2. Use a **nonflammable** contact cleaner or pencil eraser to clean the electrical contacts on the battery and tool.
3. Reinstall the battery and check the tool again.

Problem	Probable Cause	Probable Remedy
Tool is inoperative.	Dirt, contaminants, etc., in piston area of tool.	Clean tool.
	Tool battery contacts damaged.	Reform contacts.
	Tool components worn or damaged.	Return tool to Panduit.
Motor is inoperative	Low or uncharged battery.	Try known charged battery. Inoperative battery may be discharged or may have reached life expectancy.
	Broken switch components.	Return tool to Panduit.
Motor runs but tool will not complete a cycle.	Oil level low.	Return tool to Panduit.
	Air in hydraulic system.	Pull trigger and hold retract button simultaneously. Run for approximately 10 seconds, and then attempt to cut. If unsuccessful, return tool to Panduit.

Problem	Probable Cause	Probable Remedy
	Cold oil	Pull trigger and hold retract button simultaneously to warm oil. Store tool in warm area.
Dies stop during operation.	Oil level is low.	Return tool to Panduit.
	Air in hydraulic system.	Pull trigger and hold retract button simultaneously. Hold for approximately 10 seconds.
Red LED glows for 20 seconds	Battery charge low.	Charge or replace battery.
Tool loses oil.	Damaged internal seal.	Return tool to Panduit.

DISCONTINUATION OF USE / DISPOSAL

- The battery cartridge must be specially disposed of according to environmental battery guidelines.
- For the disposal of the remaining parts, please reference environmental guidelines.
- Because of possible environmental damage, we recommend disposal of the tool by professional companies.



ATTENTION



Do not dispose of the unit in your residential or commercial waste, as it would be hazardous to the environment.