

Yato YT-82825

Yato YT-82825 Cordless Angle Grinder 18V 100mm User Manual

Model: YT-82825

1. SAFETY INSTRUCTIONS

Always observe basic safety precautions when using electric tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions carefully before operating the Yato YT-82825 Cordless Angle Grinder.

1.1 General Power Tool Safety

- **Work Area Safety:** Keep the work area clean and well-lit. Cluttered or dark areas invite accidents. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating the tool for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.

1.2 Angle Grinder Specific Safety

- Always use a guard that is appropriate for the grinding or cutting disc being used.
- Ensure the disc is correctly mounted and tightened before operation.
- Do not use damaged or incorrect discs.
- Maintain a firm grip on the tool with both hands.
- Be aware of sparks and flying debris during operation.

1.3 Battery Safety (Yato YT-82842)

- Only use the charger specified by the manufacturer for recharging.
- Do not short-circuit a battery pack.

- Do not expose battery packs to heat or fire. Avoid direct sunlight.
- Do not store battery packs where the temperature may reach or exceed 50°C (122°F).
- Do not open the battery pack.

2. PRODUCT OVERVIEW

The Yato YT-82825 is a powerful 18V cordless angle grinder designed for various cutting and grinding tasks. It features a compact design and is powered by a universal 18V Li-Ion battery system.

2.1 Components

- Yato YT-82825 Cordless Angle Grinder Body
- Side Handle
- 2 x 18V Li-Ion Batteries (Model YT-82842)
- Battery Charger/Adapter
- Disc Guard
- Flange Nut Wrench

2.2 Key Features

- **Voltage:** 18V
- **Battery Type:** Li-Ion
- **No Load Speed:** 10,000 RPM
- **Disc Diameter:** 100 mm
- **Spindle Thread:** M14
- **Battery Capacity:** 2.0 Ah
- **Quick Charging:** Approximately 1 hour
- Compact size for easy handling.
- Shaft lock for convenient disc changes.
- Low vibration levels for user comfort.



Image 1: The Yato YT-82825 Cordless Angle Grinder, showing the main body, attached side handle, and battery pack. This tool is designed for portability and efficient operation.



Image 2: A close-up view of the Yato 18V Li-Ion battery, model YT-82842. This battery powers the angle grinder and other compatible Yato 18V tools.

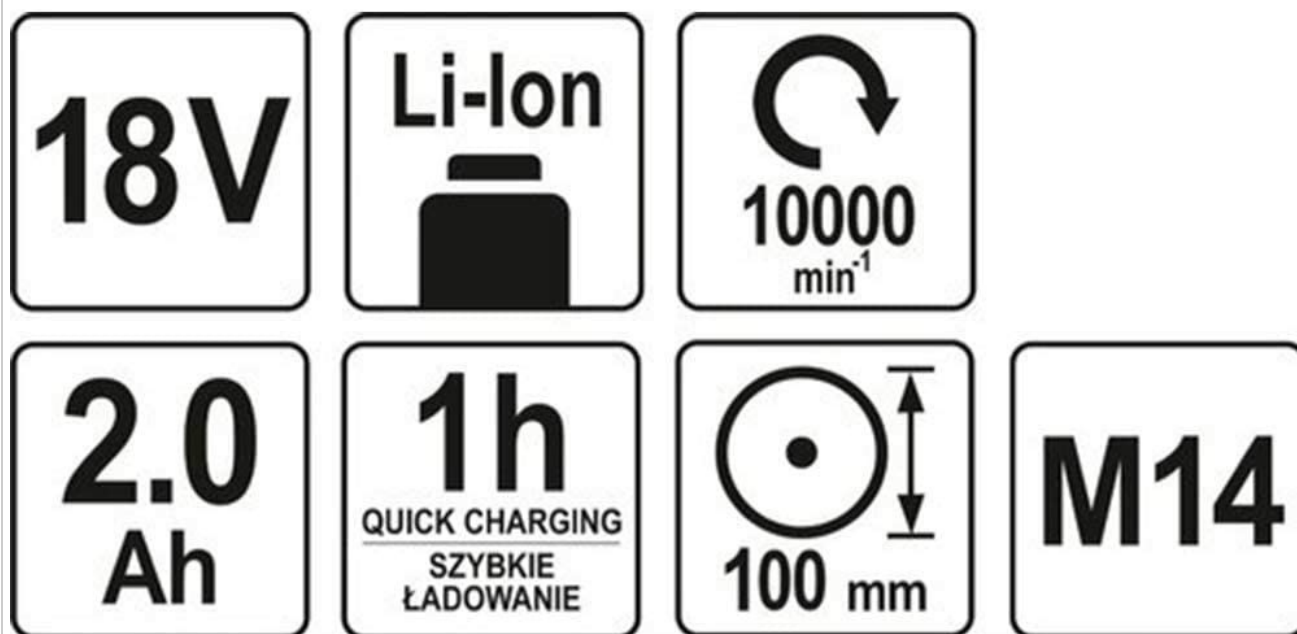


Image 3: Icons illustrating key specifications of the Yato 18V system, including 18V voltage, Li-Ion battery type, 10,000 RPM speed, 2.0 Ah capacity, 1-hour quick charging, 100mm disc diameter, and M14 spindle thread.

3. SETUP

Before first use, ensure all components are present and the battery is fully charged.

3.1 Charging the Battery

1. Connect the charger adapter to a suitable power outlet.
2. Insert the 18V Li-Ion battery (YT-82842) into the charger.
3. Allow the battery to charge until the indicator light shows it is full. A full charge typically takes approximately 1 hour.
4. Disconnect the battery from the charger once fully charged.

3.2 Attaching the Side Handle

1. Identify the threaded holes on the grinder head.
2. Screw the side handle firmly into one of the available positions. Choose a position that provides the best

control and comfort for your task.

3.3 Installing the Grinding/Cutting Disc

1. Ensure the battery is removed from the grinder for safety.
2. Press and hold the spindle lock button.
3. Unscrew the outer flange nut using the provided wrench.
4. Place the desired 100mm grinding or cutting disc onto the spindle, ensuring it sits correctly on the inner flange. The disc must be rated for at least 10,000 RPM.
5. Screw the outer flange nut back on and tighten it firmly with the wrench while holding the spindle lock button.
6. Release the spindle lock button.

4. OPERATING INSTRUCTIONS

Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and hearing protection, before operating the angle grinder.

4.1 Powering On/Off

- **To Turn On:** Insert the charged battery into the grinder. Grip the tool firmly with both hands. Depress the power switch/trigger.
- **To Turn Off:** Release the power switch/trigger.

4.2 General Operation

- Allow the disc to reach full speed (10,000 RPM) before making contact with the workpiece.
- Apply light, even pressure. Do not force the tool, as this can lead to overheating, reduced performance, and potential injury.
- Move the grinder smoothly across the workpiece.
- For cutting, ensure the workpiece is securely clamped.
- The grinder is suitable for cutting materials such as 10mm diameter iron bars or 6mm flat bars.

5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Yato YT-82825 angle grinder.

5.1 Cleaning

- After each use, disconnect the battery and clean the tool.
- Use a soft brush or compressed air to remove dust and debris from the ventilation openings and around the disc guard.
- Do not use water or chemical cleaning agents.

5.2 Battery Care and Storage

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- For long-term storage, it is recommended to store Li-Ion batteries with a partial charge (around 50%).
- Avoid fully discharging the battery before recharging to prolong its lifespan.

5.3 Disc Replacement

- Regularly inspect grinding and cutting discs for wear, cracks, or damage.

- Replace worn or damaged discs immediately following the installation instructions in Section 3.3.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Yato YT-82825 angle grinder.

- **Grinder does not start:**
 - Ensure the battery is fully charged and correctly inserted.
 - Check if the power switch/trigger is fully depressed.
- **Reduced power or short operating time:**
 - The battery may be low on charge. Recharge the battery.
 - The grinding disc may be worn or incorrect for the material. Replace if necessary.
- **Tool overheats:**
 - Allow the tool to cool down.
 - Ensure ventilation openings are clear of debris.
 - Avoid applying excessive pressure during operation.
- **Excessive vibration:**
 - Check if the grinding disc is properly installed and not damaged.
 - Ensure the side handle is securely tightened.

7. SPECIFICATIONS

Technical data for the Yato YT-82825 Cordless Angle Grinder.

Specification	Value
Brand	Yato
Model	YT-82825
Voltage	18V
Battery Type	Li-Ion
No Load Speed	10,000 RPM
Disc Diameter	100 mm
Spindle Thread	M14
Battery Capacity	2.0 Ah
Charging Time (Quick Charge)	Approx. 1 hour
Included Components	2 Batteries, Adapter, Side Handle
Power Source	Battery Powered
Special Features	Portable, Variable Speed (implied by 10000 RPM), Wireless

YATO 	V
YT-82825	18

Image 4: A table confirming the Yato YT-82825 model and its 18V operating voltage.



ONE BATTERY, LOTS OF POSSIBILITIES

The 18 V system means power, freedom and savings!

This series of YATO cordless tools is powered by the same type of heavy-duty 18 V battery and thanks to their extensive selection you can equip a professional workshop, as well as take care of your home and garden. Every device is available in two versions: in a set with a battery and quick charger or solo, which is a perfect solution if you are expanding your collection of tools powered by the same battery.

Wherever you are, the 18 V battery allows you to work with complete freedom!

Image 5: An illustration of the Yato 18V battery system, highlighting its compatibility across a range of Yato cordless tools, offering versatility and convenience with a single battery platform.

8. WARRANTY AND SUPPORT

Yato products are manufactured with a focus on durability and quality. For warranty information and customer support, please refer to the official Yato documentation or contact your local Yato dealer.

The manufacturer of this product is Yato Tools (Shanghai) Co. Ltd.

A Quality Management System Certificate for Yato Tools (Shanghai) Co. Ltd. can be viewed [here](#).