

说明书材质要求: 105g 有光铜版纸	说明书成品尺寸: 105*143mm
第一: 专色用6级防晒油墨	第二: 特别注意: 1.印刷时看样请参考我司提供的实物样品颜色。不得偏色
	<div style="display: flex; align-items: flex-start;"> <div style="width: 15px; height: 15px; background-color: #444; margin-right: 5px;"></div> Pantone cool gray 10C  <div style="width: 15px; height: 15px; background-color: #ffff00; margin-right: 5px; margin-top: 5px;"></div> Pantone 389C  <div style="width: 15px; height: 15px; background-color: #000; margin-right: 5px; margin-top: 5px;"></div> Black (三色印刷)         </div>
折叠方式: 风琴折 (20P以下用风琴折) / 骑马钉 (20P以上用骑马钉) 特殊情况: 16P/20P: 风琴折 + 对折	备注:

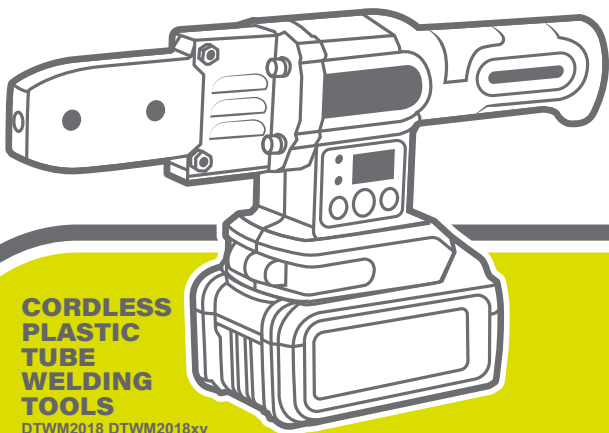
## 特别注意: 此页内容不印刷

<p>风琴折 + 对折 页面顺序</p> <p style="text-align: center; color: red;">16P 页面顺序</p> <table border="1" style="margin-bottom: 10px;"> <tr><td>9</td><td>10</td><td>11</td><td>封面</td></tr> <tr><td>12</td><td>13</td><td>14</td><td>封底</td></tr> </table> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td></tr> <tr><td>5</td><td>6</td><td>7</td><td>8</td></tr> </table>	9	10	11	封面	12	13	14	封底	1	2	3	4	5	6	7	8	<p style="text-align: center; color: red;">20P 页面顺序</p> <table border="1" style="margin-bottom: 10px;"> <tr><td>11</td><td>12</td><td>13</td><td>14</td><td>封面</td></tr> <tr><td>15</td><td>16</td><td>17</td><td>18</td><td>封底</td></tr> </table> <table border="1"> <tr><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td></tr> <tr><td>6</td><td>7</td><td>8</td><td>9</td><td>10</td></tr> </table>	11	12	13	14	封面	15	16	17	18	封底	1	2	3	4	5	6	7	8	9	10
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更改记录	1. 新产品			1. 更新电池包线稿		
	0624.D01	2024.06.13	Athena	0325.D02	2025.03.20	Oona
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# PRODUCT MANUAL



## **CORDLESS PLASTIC TUBE WELDING TOOLS**

DTWM2018 DTWM2018xy

UDTWM2018xy DTWM201xy

UDTWM201xy

x(blank, 1, 2, 3, 4, 5, 6, 7, 8, 9, E, S, A, M)

y(blank, -1, -2, -3, -4, -5, -6, -7, -8, -9, E, S, A, M)

*DYLLU, discover your power*

**GENERAL POWER TOOL SAFETY WARNINGS**

**⚠ WARNING!** Read all safety warnings, instructions, illustrations and specifications provided with this power tool. *Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.*

**Save all warnings and instructions for future reference.**

*The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.*

**1) Work area safety**

- a) **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

**2) Electrical safety**

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

### 3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.**
- b) **Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.**
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.**
- d) **Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.**
- e) **Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.**
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.**
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.**
- h) **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles. A careless action can cause severe injury within a fraction of a second.**

### 4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.**
- b) **Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.**
- c) **Disconnect the plug from the power source and/or remove the battery**

pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools. *Such preventive safety measures reduce the risk of starting the power tool accidentally.*

- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
- e) **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
- f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*
- h) **Keep handles and grasping surfaces dry, clean and free from oil and grease.** *Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.*

## 5) Battery tool use and care

- a) **Recharge only with the charger specified by the manufacturer.** *A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.*
- b) **Use power tools only with specifically designated battery packs.** *Use of any other battery packs may create a risk of injury and fire.*
- c) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** *Shorting the battery terminals together may cause burns or a fire.*
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** *Liquid ejected from the battery may cause irritation or burns.*

- e) **Do not use a battery pack or tool that is damaged or modified.** *Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.*
- f) **Do not expose a battery pack or tool to fire or excessive temperature.** *Exposure to fire or temperature above 130 °C may cause explosion.*
- g) **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** *Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.*

## BATTERY TOOL SAFETY WARNINGS

Save these instructions.

### ⚠ CAUTION!

**Only use genuine original batteries.** *Use of non-genuine batteries, or batteries that have been altered, may result in the battery bursting causing fires, personal injury, and damage. It will also void the warranty for the tool and charged and dark areas invite accidents.*

### ⚠ WARNING!











- a) **Do not dismantle, open or shred secondary cells or batteries.**
- b) **Keep batteries out of the reach of children.** *Battery usage by children should be supervised. Especially keep small batteries out of reach of small children.*
- c) **Seek medical advice immediately if a cell or a battery has been swallowed.**
- d) **Do not expose cells or batteries to heat or fire.** *Avoid storage in direct sunlight.*
- e) **Do not short-circuit a cell or a battery.** *Do not store cells or batteries haphazardly in a box or drawer where they may short-circuit each other or be short-circuited by other metal objects.*
- f) **Do not remove a cell or battery from its original packaging until required for use.**
- g) **Do not subject cells or batteries to mechanical shock.**
- h) **In the event of a cell leaking, do not allow the liquid to come in contact with the skin or eyes.** *If contact has been made, wash the affected area with copious amounts of water and seek medical advice.*
- i) **Do not use any charger other than that specifically provided for use with the equipment.**

- j) **Observe the plus (+) and minus (-) marks on the cell, battery and equipment and ensure correct use.**
- k) **Do not use any cell or battery which is not designed for use with the equipment.**
- l) **Do not mix cells of different manufacture, capacity, size or type within a device.**
- m) **Always purchase the battery recommended by the device manufacturer for the equipment.**
- n) **Keep cells and batteries clean and dry.**
- o) **Wipe the cell or battery terminals with a clean dry cloth if they become dirty.**
- p) **Secondary cells and batteries need to be charged before use.** *Always use the correct charger and refer to the manufacturer's instructions or equipment manual for proper charging instructions.*
- q) **Do not leave a battery on prolonged charge when not in use.**
- r) **After extended periods of storage, it may be necessary to charge and discharge the cells or batteries times to obtain maximum performance.**
- s) **Retain the original product literature for future reference.**
- t) **Use the cell or battery only in the application for which it was intended.**
- u) **When possible, remove the battery from the equipment when not in use.**
- v) **Dispose of properly.**

## **6) Service**

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

## THE SYMBOLS IN INSTRUCTION MANUAL

	<p>Double insulated for additional protection</p>
	<p>Read the instruction manual before using.</p>
	<p>CE conformity.</p>
	<p>Safety alert. Please only use the accessories supported by the manufacturer.</p>
	<p>Wear safety glasses, hearing protection and dust mask.</p>
	<p>Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice.</p>
	<p>Charging the battery only below 40°C</p>
	<p>Always recycle batteries.</p>
	<p>Do not destroy battery by fire.</p>
	<p>Do not expose battery to water</p>

**ADDITIONAL SAFETY WARNING****Additional safety warnings**

- a) Always wear ear protection, if the noise pressure level at the place of work exceeds 85dB.
- b) Wear protective glasses or goggles.
- c) Your plastic tube welding tools is a high- speed, fast cutting power tool.
- d) The electrical connection and cutting tools are potential sources of danger. Therefore, special safety precautions must be observed to reduce the risk of personal injury.
- e) Never allow children or people unfamiliar with these instructions to use the plastic tube welding tools.
- f) The operator or user of this plastic tube welding tools is responsible for accidents or hazards occurring to other people or their property.
- g) Keep children and bystanders away. Never use the plastic tube welding tools while people near here.
- h) Always wear substantial footwear and long trousers.
- i) Do not operate this plastic tube welding tools when barefoot or wearing open sandals.
- j) Never use the plastic tube welding tools with a damaged guard or with- out the guard in place.
- k) Never work with a plastic tube welding tools while under the influence of alcohol or drugs.
- l) Never attempt to modify your plastic tube welding tools in any way since it may increase the risk of personal injury. Do not use wire or metal rein- forced line. This excludes all liability for personal injury or damaged to property caused by use or impermissible modification.
- m) Do not run with the Plastic tube welding tools.
- n) Only use the Plastic tube welding tools in daylight or good artificial light.
- o) We recommend, using a Residual Current Device (RCD) with a tripping current of not more than 30mA.

## RESIDUAL RISKS

Even when the power tool is used as prescribed it is not possible to eliminate all residual risk factors. The following hazards may arise in connection with the power tool's construction and design:

- a) Health defects resulting from vibration emission if the power tool is being used over longer period of time or not adequately managed and properly maintained.
- b) Injuries and damage to property due to broken accessories that are suddenly dashed.

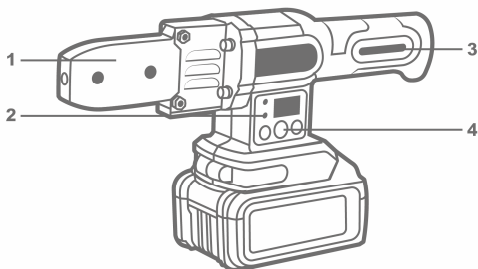
### **WARNING!**

**This power tool produces an electromagnetic field during operation. This field may under some circumstances interfere with active or passive medical implants. To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their physician and the medical implant manufacturer before operating this power tool.**

## INTENDED USE

The machine is used for the connecting of plastic pipe, such as PPR and PE. The machine controls temperature exactly, easy and safe to use.

## SPECIFICATIONS



### Components

1. Heating board
2. Indicator
3. Handle
4. Switch

### Technical specifications

Model No.	DTWM2018 DTWM2018xy DTWM201xy UDTWM2018xy UDTWM201xy
Voltage	20V
Rated temperature	0°C-320°C
Clamping size	20mm, 25mm, 32mm

**Model No. Note:** x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

- Due to our continuing program of research and development, the specifications herein are subject to change without notice.

**⚠ WARNING!**

Only use original battery pack and battery charger as below for this power tool:

Product	Battery pack		
Model No.	Type	Rated voltage	Rated capacity
DTLBP515 DTLBP515xy	Lithium-Ion	18.5V d.c., 20V Max	1.5Ah
DTLBP520 DTLBP520xy			2.0Ah
DTLBP530 DTLBP530xy			3.0Ah
DTLBP540 DTLBP540xy			4.0Ah
DTLBP550 DTLBP550xy			5.0Ah

**Model No. NOTE:** x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

Product	Battery pack charger			
Model No.	Input power	Input voltage	Output rated voltage	Output rated current
DTFCP518 DTFCP518xy	45W	220-240V ~50/60Hz	20V d.c.	1.8A
UDTFCP518 UDTFCP518xy		110-120V ~50/60Hz		
DTFCP540 DTFCP540xy	105W	220-240V ~50/60Hz	20V d.c.	4A
UDTFCP540 UDTFCP540xy		110-120V ~50/60Hz		

**Model No. NOTE:** x (blank, 1,2,3,4,5,6,7,8,9,E,S,A,M); y (blank, -1,-2,-3,-4,-5,-6,-7,-8,-9,E,S,A,M)

## OPERATION

### Operation

- a) Install corresponding matrixes according to specifications needed. Tight matrixes with wrench smaller sizes in front generally.
- b) Turn on power. Green indicator shows the machine is heating, red indicator shows the machine has stopped heating and it is time for work.
- c) Cut the pipe. Push the pipe or fitting into matrix for some time pull them out rapidly and then insert. Not screw to the depth need- ed steadily.

### Maintenance and cleaning

Make sure that the machine is not live when carrying out maintenance work on the motor.

The anti-adhesive coating on the heating element must be cleaned with nonadherent paper or a non-fraying cloth and spirit or industrial alcohol before each welding process. Any remnants of plastic adhering to the heating element must be cleaned off in the same way. In this process, take care to ensure that the anti-adhesive coating on the heating element is not damaged by tools.

The machine requires no additional lubrication.

Should a fault occur, e.g., after wear of a part, please contact your local dealer.

## MAINTENANCE&MALFUNCTIONS

### Possible malfunctions and methods of their eliminations

Malfunction	Probable causes	Actions
When the machine is turned on, the electric motor does not work.	<ul style="list-style-type: none"> <li>● Switch failure</li> <li>● The power cord or wiring is broken, power cord plug malfunction;</li> <li>● No brush contact with the collector;</li> <li>● Wear/damage of brushes</li> </ul>	Disconnect the machine from the mains and contact a qualified specialist.
Formation of a circular fire on the collector	<ul style="list-style-type: none"> <li>● Brush wear/damage of the brush holder;</li> <li>● Malfunction in the armature coil</li> </ul>	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
When working, smoke or the smell of burning insulation appears from the ventilation openings.	<ul style="list-style-type: none"> <li>● Malfunction in the electric motor coil;</li> <li>● Malfunction of the electrical part of the tool.</li> </ul>	
Increased noise in the gearbox	<ul style="list-style-type: none"> <li>● Wear/breakage of gears or bearings</li> </ul>	
When the machine is turned on, the spindle does not rotate	<ul style="list-style-type: none"> <li>● Gearbox failure.</li> </ul>	

### Critical state criteria

Critical state criteria	Probable causes	Actions
Cracks on the surfaces of bearing and housing parts	Fatigue deformation of metal	Disconnect the machine from the mains and contact a qualified specialist. Please don't repair the machine by your own.
The power cord or plug is damaged	Overload or breakage	
Excessive wear or damage to the motor or reductor mechanism, or a combination of signs	Fatigue deformation of metal	

### Critical state criteria

List of critical failures	Actions
Electric motor sparking	It is necessary to contact a qualified specialist
The appearance of extraneous noise	It is necessary to contact a qualified specialist
If the above malfunctions are detected, it is necessary to disconnect the machine from the mains and contact a qualified specialist	



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