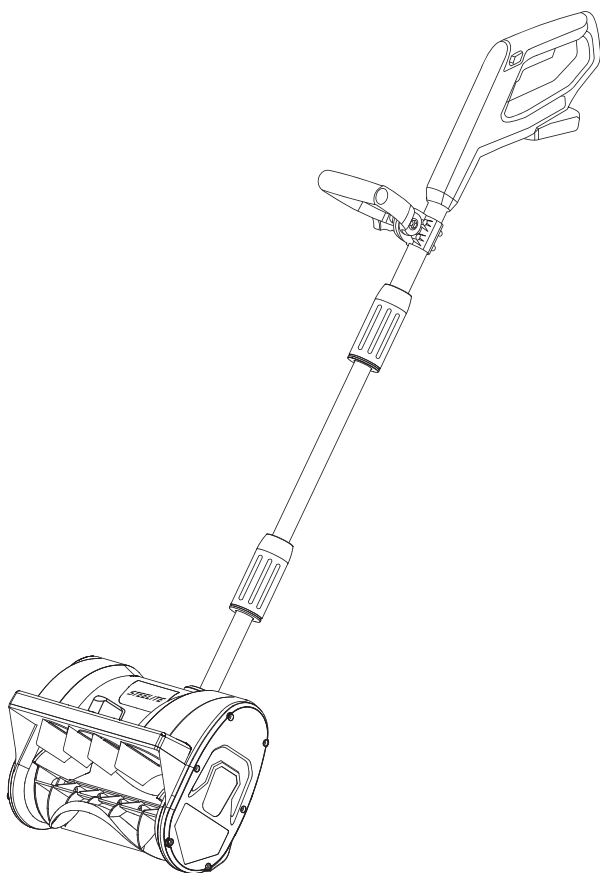


# STEELITE

## 20V 12in. Snow Shovel DY890-1



**Please Read Carefully Before Use  
Original Instruction Manual**

## Safety Instructions

### 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 mainsoperated (corded) power tool or battery-operated (cordless) power tool.

- **Work area safety**
- **Keep 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.** Power tools create sparks which may ignite the dust or fumes.
- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

## Electrical Safety

**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.

- **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.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **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.
- **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.
- **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.

## Personal Safety

- **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.**

- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, nonskid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **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.
- **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.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **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.
- **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.
- **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.

## For All Snow Shovel

- **Walk.** Do not run.
- **Do not use on graveled surface unless the snow shovel is adjusted for such a surface in accordance with the operator's manual.**
- **Keep Children Away** – All visitors should be kept a safe distance from work area.
- **Dress Properly** – Do not wear loose clothing or jewelry. They can be caught in moving parts.
- **Wear rubber boots** when operating the snow shovel.
- **Keep hands away from moving parts.**
- **Keep guards in place and in working order.**
- **Don't Force Snow Shovel**–It will perform better and safer at the rate for which it was designed.
- **Don't Overreach** – Keep proper footing and balance at all times.
- **If the snow shovel strikes a foreign object follow these steps:**
  - 1) Stop snow shovel. Release the switch.
  - 2) Remove the battery pack.
  - 3) Inspect for damage.
  - 4) Repair any damage before restarting and operating the snow shovel.
- **Store Idle Snow Shovel Indoors** – When not in use, snow shovel should be stored indoors in dry, locked-up place – out of reach of children.

# Safety Instructions

## WARNING

When using the product the safety rules must be followed. For your own safety and that of bystanders please read these instructions before operating the product. Please keep the instructions safe for later use.

## Training

- **Read the instructions carefully.** Be familiar with the controls and the proper use of the product.
- **Never allow children to operate the equipment. Never allow adults to operate the equipment without proper instruction.**
- **Keep the area of operation clear of all persons, particularly small children.**
- **Exercise caution to avoid slipping or falling, especially when operating the snow shovel in reverse.**

## Preparation

- **Never operate the product while people, especially children, or pets are nearby.**
- **Wear eye protection and stout shoes and long trousers at all times while operating the product.**
- **Before use, always visually inspect the machine for damaged, missing or misplaced guards or shields.**

## Operation

- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to battery pack, picking up or carrying the appliance.
- Carrying the appliance with your finger on the switch or energizing the appliance that has the switch on invites accidents.
- Do not put hands or feet near or under rotating parts.
- Exercise extreme caution when operating on or crossing gravel drives, walks, or roads. Stay alert for hidden hazards or traffic.
- After striking a foreign object, stop the motor, remove the battery pack, thoroughly inspect the snow shovel attachment for any damage, and repair the damage before restarting and operating the snow shovel.
- If the tool should start to vibrate abnormally, stop the tool and check immediately for the cause. Vibration is generally a warning of trouble.
- Stop the tool whenever you leave the operating position, before unclogging the auger assembly housing, and when making any repairs, adjustments or inspections.
- When clearing, repairing or inspecting the snow shovel, stop the tool and make certain the auger assembly has stopped. Remove the battery pack to prevent someone from accidentally starting the tool.
- Exercise extreme caution when operating on slopes.

- Never direct the discharge toward people or areas where property damage can occur. Keep children and others away.
- Do not overload the machine capacity by attempting to clear snow at too fast a rate.
- Disengage power when snow shovel is transported or not in use.
- Never operate the snow shovel without good visibility or light. Always be sure of your footing, and keep a firm hold on the handles. Walk; never run.
- Do not expose a battery pack or tool to fire or excessive temperature.

## Service

- **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.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

# Symbols

	Indicates a potential personal injury hazard.
	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Risk of fire and burns. Do not expose battery, battery compartment, or electronic components to rain, water, or liquids. Do not operate on wet ground.
	Always wear safety goggles or safety glasses with side shields when operating this product that comply with ANSI Z87.1
	Keep bystanders a safe distance from the machine.
	Do not use hands to unclog the auger assembly.
	Keep feet away from rotating impeller.

# Symbols



To reduce the risk of injury, keep hands and feet away from rotating parts. Do not operate unless discharge chute is in its proper place. If damaged, replace immediately.



Thrown objects can ricochet and result in personal injury or property damage.



This product uses lithium-ion (Li-ion) batteries. Local, state, or federal laws may prohibit disposal of batteries in ordinary trash. Consult your local waste authority for information regarding available recycling and/or disposal options.



Type or a characteristic of current

$n_o$

Rotational speed, at no load

RPM

Rotational speed

V

Voltage

Hz

Frequency (cycles per second)

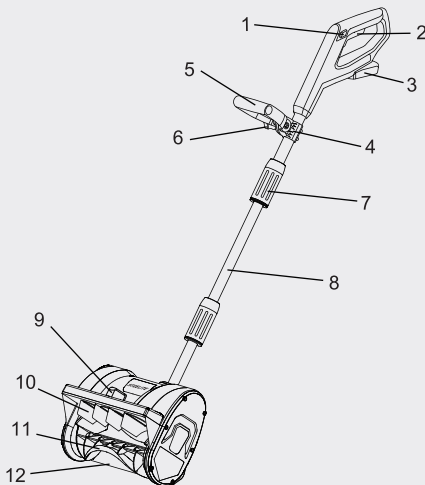
min

Time

# Product Descriptions And Specifications

## Description

Read this operator's manual and safety rules before operating your snow shovel. Save this manual for future reference.



1. Lock-out Button
2. Trigger Switch
3. Battery Mounting Slots
4. Auxiliary Handle Holder
5. Auxiliary Handle
6. Lock Knob
7. Screw Sleeve
8. Shaft
9. Louver Adjustment Knob
10. Louvers
11. Auger
12. Scraper Bar



# Operating Instructions

## Operation

### Assembly And Adjustment

#### **WARNING**

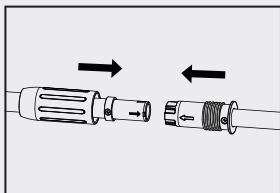
Before assembly make sure that the appliance is switched off and the battery has been removed.

### Connecting The Shaft

#### **WARNING**

Be certain that the wing knob is fully tightened before operating the equipment; check it periodically for tightness during use to avoid serious personal injury.

1. Pull the snow shovel shaft out from the Screw Sleeve.
2. Align the arrow on the snow shovel shaft with the arrow on the coupler and push the snow shovel shaft into the coupler.
3. Tighten the screw sleeve securely.



#### **WARNING**

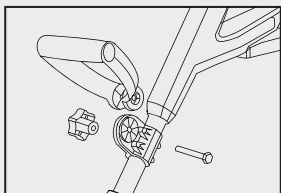
If **two arrows** do not match, the electrical connection cannot be connected, and the snow shovel cannot work.

#### **WARNING**

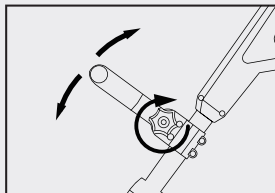
These **three shafts** should not be used until they are properly assembled during use to avoid serious personal injury.

### Mounting The Auxiliary Handle

1. Remove the lock knob from the auxiliary handle.
2. Set the auxiliary handle on the holder and put the bolt through the holes.



3. Adjust the auxiliary handle in the comfortable angle and tighten the lock knob.



### Adjusting The Auxiliary Handle Position

Loosen the two screws with a screwdriver (the screwdriver is not included), raise or lower the auxiliary handle to the appropriate position, and tighten the screws.

### To Install/Remove Battery Pack

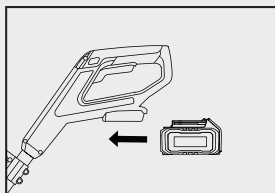
#### **WARNING**

**Always remove the battery pack from the product when you are assembling parts, making adjustments, cleaning, or when it is not in use.** Removing the battery pack will prevent accidental starting that could cause serious personal injury.

**NOTE:** Fully charge the battery pack before first use

#### To Install Battery Pack

1. Align the ribs of the battery pack with the battery-mounting slots in the snow shovel.
2. Slide the battery pack in until it snaps into position.

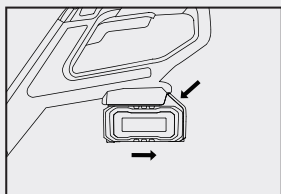


#### To Remove Battery Pack

#### **WARNING**

**Always be aware of the location of your feet and children or pets around you when pressing the battery release button.** NEVER remove the battery pack at a high position. Serious injury could result if the battery pack falls.

# Operating Instructions



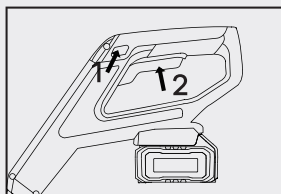
1. Hold the battery pack in the palm of your hand.
2. Press the battery-release button with your thumb; the battery pack will disengage from the latch.
3. Grasp the battery pack and remove it from the snow shovel.

## Starting The Snow Shovel

### **⚠ WARNING**

In order to avoid serious injury, the operator and unit must be in a stable position when starting the snow shovel.

1. Verify that the battery pack is inserted into the battery compartment.
2. Press and hold the lock-out button.
3. While holding the lock-out button, press and hold the trigger switch.



**NOTICE:** The motor starts only when the lock-off button is press forward and the trigger switch is depressed at the same time.

## Stopping The Snow Shovle

Move the snow shovel away from the clearing area and release the trigger switch to stop the tool.

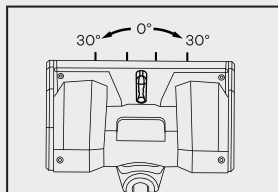
### **⚠ WARNING**

Always remove the battery pack from the snow shovel during work breaks and after finishing work.

## Adjust The Direction Of The Snow Discharge

- The direction of the snow discharge can be changed by rotating the louver adjustment knob.

- The snow discharge can be directed to the left, straight ahead, or to the right.
- The maximum turn of the knob is 60° (30° to the left or to the right).



## Applications

This snow shovel is most ideal for clearing snow from sidewalks, steps, decks, patios, and smaller driveways. This snow shovel the best clearing depth is under 4 inches (10 cm).

## Using The Snow Shovel

### **⚠ WARNING**

Always Use Proper Eye Protection That Conforms To ANSI Z87.1 (CAN/CSA Z94.3) While Operating This Appliance.

### **⚠ WARNING**

Never use the snow shovel on a rooftop, frozen lakes, ice or other unstable surface, which can result in death or serious injury.

### **⚠ WARNING**

Make sure that the area to be cleared is free of stones, sticks, wires, gravel, and other objects that could be accidentally thrown by the snow shovel in any direction and cause serious personal injury to the operator and others.

### **⚠ WARNING**

To prevent serious personal injury, remove the battery pack from the tool before servicing, cleaning, changing attachments or removing material from the tool.

### **⚠ WARNING**

DO NOT immerse battery pack in snow, water or other liquids at any time. Battery pack are not waterproof.

- Start the snow shovel by following the Starting Instructions, push the snow shovel forward after 3 or 5 seconds so that it rides on the scraper. The depth and weight of the snow will determine the forward speed. Do not push too hard.
- When using the snow shovel, hold the tool with a firm grip with both hands while in operation.

# Operating Instructions

- Take notice of the direction of the wind before beginning. When possible, discharge snow in the same direction as the wind to prevent snow from being thrown back into your face.
- Some parts of the snow shovel can freeze under extreme weather conditions. Do not attempt to operate the tool with frozen parts.

- If the tool contacts with any type of obstruction during operation, stop it and remove the battery pack. Check the tool carefully before using.
- If the snow is too thick and deeper than the clearing depth, it may take more than one pass to clear.
- When finished, allow the tool to run for several minutes to allow all snow to clear the auger before storing.

## Troubleshooting

Problem	Possible causes	Solution
The snow shovel does not start.	Battery is not secure	To secure the battery pack, make sure the latches on the top of the battery pack snap into place.
	Battery is low power capacity.	Charge the battery pack according to the instructions.
The snow shovel leaves a thin layer.	The scraper bar is worn.	Replace the scraper bar.
Unexpected shutdown during work. No snow is thrown from the deck.	Machine is overloaded. The auger is completely jammed by the heavy snow.	Remove the snow from the auger and reduce the machine load intensity.
	The battery pack or the machine is overheated.	Allow the battery and/or tool to cool down before resuming work.

## Maintenance and transportation

### Cleaning And Maintenance

#### WARNING

All maintenance should be carried out by a qualified person, do not try to repair any defect. When servicing, use only identical replacement parts. Use of any other part could create a hazard or cause product damage.

#### Cleaning

1. Remove the battery pack.
2. Brush or blow dust and debris out of the air vents using compressed air or a vacuum. Keep the air vents free of obstructions, sawdust, and wood chips. Do not spray, wash, or immerse the air vents in water.
3. Wipe off the housing and the plastic components using a moist, soft cloth. Do not use strong solvents or detergents on the plastic housing or plastic components. Certain household cleaners may cause damage, and may cause a shock hazard.

### Storage






1. Remove the battery pack.
2. Clean the product and re-pack to original package.
3. Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
4. Always store the product in a place that is inaccessible to children.
5. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

### Transportation

1. Remove the battery pack.
2. Re-pack to original package.
3. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
4. Secure the product to prevent it from slipping or falling over.

## For the battery

Symbols on the battery:

	Read the operating instructions carefully.		Electrical appliances do not belong in the Household garbage.
	Do not throw the battery in the trash, into the fire or into the water		Do not use the battery more heavily for a long time Direct sunlight and do not place it on a radiator (max. 50 ° C).
	Take batteries to a waste battery collection point, where they can be recycled in an environmentally friendly manner.		



Do not expose the battery to extreme conditions such as heat and shock. There is a risk of injury from leaking electrolyte solution! In the event of eye-skin contact, rinse the affected areas with water or a neutralizer and consult a doctor



Only charge the battery in dry rooms. The outside of the battery must be clean and dry before you connect the charger. There is a risk of injury from electric shock.



Charge only with the original charger supplied. Make sure that the device is not charged continuously for more than 5 hours. The battery and the device could be damaged and you use unnecessary power if you charge them for a longer period of time. The guarantee expires in the event of an overload

- Charge the battery before using it for the first time. Do not charge the battery briefly several times in a row.
- Recharge the battery if the device runs too slowly.
- A significantly reduced operating time despite charging indicates that the battery is used up and needs to be replaced. Only use an original replacement battery that you can obtain from customer service.
- In any case, observe the applicable safety instructions as well as regulations and notes on environmental protection
- Defects resulting from improper handling are not covered by the guarantee

## Battery Pack Operation

The equipment is powered by a lithium-ion battery. The battery pack is completely sealed and maintenance free.



**WARNING!** Before first use, the battery requires at least 1 hr charge time to be fully charged. When the battery is at low capacity, recharge for 1 hr again before resuming operation.

## Battery Charge Level Indicator

The battery pack is equipped with a push button for checking the charge level. Simply press the push button to read off the battery charge level from the LEDs of the battery indicator:

- 4/5 level monitoring LEDs are lit: Battery charge level is high.
- 2/3 level monitoring LEDs are lit: Battery charge level is decreasing. Stop work as soon as possible.
- 1 level monitoring LED is lit: Battery is flat. Stop work IMMEDIATELY and charge the battery. Otherwise the battery's service life will be greatly shortened.

NOTE: If the charge level button does not appear to be working, insert the battery into the charger and charge as needed.

NOTE: Immediately after using the battery pack, the charge level button may display a lower charge than it will if checked a few minutes later. The battery cells "recover" some of their charge after resting.

## Recharge battery

WARNING! Switch off the device and wait for the knife to stop.

Let a freshly discharged battery cool down for approx. 15 minutes before inserting it into the charger.

Press and hold the button on the battery to pull it out. The battery is removed and vice versa(Abb.3)

## Check the charge status of the battery

The charge status indicator shows the charge status of the battery when the device starts

LED LIGHT DISPLAY STATUS		CHARGING STATUS
green	flashes	Battery being charged
green	stable	Battery fully charged
red	unlit	Waiting for charging
red	flashes	Abnormal cell temperature
red	stable	Battery pack abnormality

## For the charger

1. Use only the voltage specified on the charger.
  2. Before charging, read the instructions carefully.
  3. Before charging the battery, first connect the power cable to the mains and then connect the battery pack to the charger. After the battery has been fully charged, disconnect the power supply after removing the battery pack from the charger.
  4. This device is for indoor use only. Water, rain, or moisture should be avoided.  
Any damage caused by improper use is the sole responsibility of the user. The rules for avoiding accidents and the accompanying safety instructions must be observed.
- The charger charges the following battery packs.

Battery pack	Battery charger	
Model	Model	Volt
DL-DC20A4	DE-CD20A2	100-240V AC,50-60Hz
<ul style="list-style-type: none"> <li>• Do not charge non-rechargeable batteries with this device.</li> </ul>		

6. SAVE THESE INSTRUCTIONS. This manual contains important safety information and instructions for using the battery charger.
7. CAUTION: Risk of explosion if battery is improperly replaced. Replace the battery only with batteries of the same type.
8. Do not expose the charger to rain, snow and other extreme weather conditions. Do not use the power tools in damp or wet locations.
9. Using an accessory that is not manufactured or recommended by the charger manufacturer could result in fire, electric shock or personal injury.
10. To reduce the risk of damage to the cord and plug, pull the plug and not the cord when disconnecting the charger from the mains.
11. Make sure that the cable is laid in such a way that it cannot be stepped on, tripped over, damaged or pulled in any other way.
12. Do not use the charger with a damaged cord or plug. In the event of any damage, they must be replaced immediately.
13. Do not use the charger if it has been hit hard, dropped or damaged in any way, take it to an authorized customer service center.
14. Do not disassemble the charger. Bring it to customer service if it needs to be repaired or serviced.  
Incorrect assembly could result in electric shock or fire.
15. To reduce the risk of electric shock, unplug the charger from the wall socket before servicing or cleaning it.
16. Charging should only occur when the battery pack is between 32 ° F (0 ° C) and 95 ° F (35 ° C).
17. The ventilation of the charger must never be covered or closed with a foreign object.
18. The charger works with normal household electricity. Do not use any other mains voltage!
19. WARNING: The parts inside the charger are live and create a risk of electric shock. Do not insert anything into the charger connections!
20. Unplug the charger immediately if you notice smoke or flames!

# STEELITE

## Product Warranty Card

### Dear users :

Thank you for buying our products. In order to ensure your profit, users who buy our products can contact local distributor or Specified repair stations with invoice and warranty cards if the product failures due to quality problems.

### Warranty Notice:

1. We will provide a 2-year limited warranty for the machine and a 1-year limited warranty for the battery, starting from the date of your purchase.
2. This warranty card and purchase invoice are the voucher of after-sales service provided by our company to customers. The card must be detailed only after filling in the following form and affixing the official seal with the distributor.
3. In one of the following cases, free warranty service will be invalid, and maintenance fees will be required:
  - ( 1 ) Exceed the expiration date.
  - ( 2 ) Failure or damage caused by not following the requirements of the product manual, maintenance or improper storage.
  - ( 3 ) Failure or damage caused by disassembling, repairing or modification of the product without the permission of our company.
  - ( 4 ) Machine breakdown or damage caused by force majeure.
  - ( 5 ) Consumable accessories.

This card is issued with the product. One card for one machine, to ensure that you can fully enjoy the right to free warranty service provided by the company, please keep this card properly, lost will not be replaced.

service@steelitetool.com

+1 888-909-8850

Purchase Date: \_\_\_\_\_ (Year/Month/Day)

## Product Certificate

Inspector:

01

Date of manufacture:

NINGBO DELI TOOLS CO., LTD.  
No. 128 Chezhan West Road, Huangtan Town,  
Ninghai County, Ningbo, Zhejiang, China  
delitoolsglobal@nbdeli.com  
CUSTOMER SUPPORT EMAIL: service@steelitetool.com  
+1 888-909-8850  
MADE IN CHINA

