ICE COBOTICS
Human Led. Tech Powered Clean.

# User Manual

www.icecobotics.com

## Automatic Scrubber

## 15Y/15YL



8421991
REV.01 (04-2026)

## READ USER MANUAL CAREFULLY!

**IMPORTANT: To ensure full warranty protection, please fill out & return your warranty card.**

Please fill out at time of installation for future reference.

Model No. _____

Serial No. _____

Machine Options _____

Sales Rep. _____

Sales Rep. Phone No. _____

Customer ID Number _____

Installation Date _____

### HOW TO ORDER PARTS

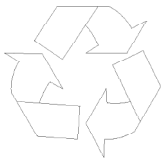
Only use ICE Cobotics supplied or equivalent parts. Parts and supplies may be ordered from authorized distributor.

1. Identify the machine model.
2. Identify the machine serial number from the data label.
3. Ensure the proper serial number is used from the parts list.
4. Identify the part number and quantity.
   Do not order by page or reference numbers.
5. Provide your name, company name, customer ID number,billing and shipping address, phone number and purchase order number.



### PROTECT THE ENVIRONMENT

Please dispose of packaging materials,old machine components such as batteries, hazardous fluids, including antifreeze and oil, in an environmentally safe way according to local waste disposal regulations.



Always remember to recycle.

Specifications and parts are subject to change without notice.

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## SAFETY PRECAUTIONS

This machine is intended for commercial use. It is designed exclusively to scrub hard floors in an indoor environment and is not constructed for any other use. Only use recommended accessories.

**All operators shall read, understand and exercise the following safety precautions:**

**1. Do not operate machine:**
- Unless you have read and understand the operators manual.
- In flammable or explosive areas.
- If not in proper operating condition.
- In outdoors areas.

**2. Before starting machine:**
- Make sure all safety devices are in place and operate properly.

**3. When using machine:**
- Go slow on inclines and slippery surfaces.
- Follow all safety guidelines.
- Be very careful when using the machine in reverse.
- Reduce speed when turning.
- Report and fix any damage to machine prior to operating it.
- Never allow children to play on or around.
- Do not operate on inclines that exceed 5% (3°).

**4. Before leaving or servicing machine:**
- Stop on level surface.
- Turn off machine.

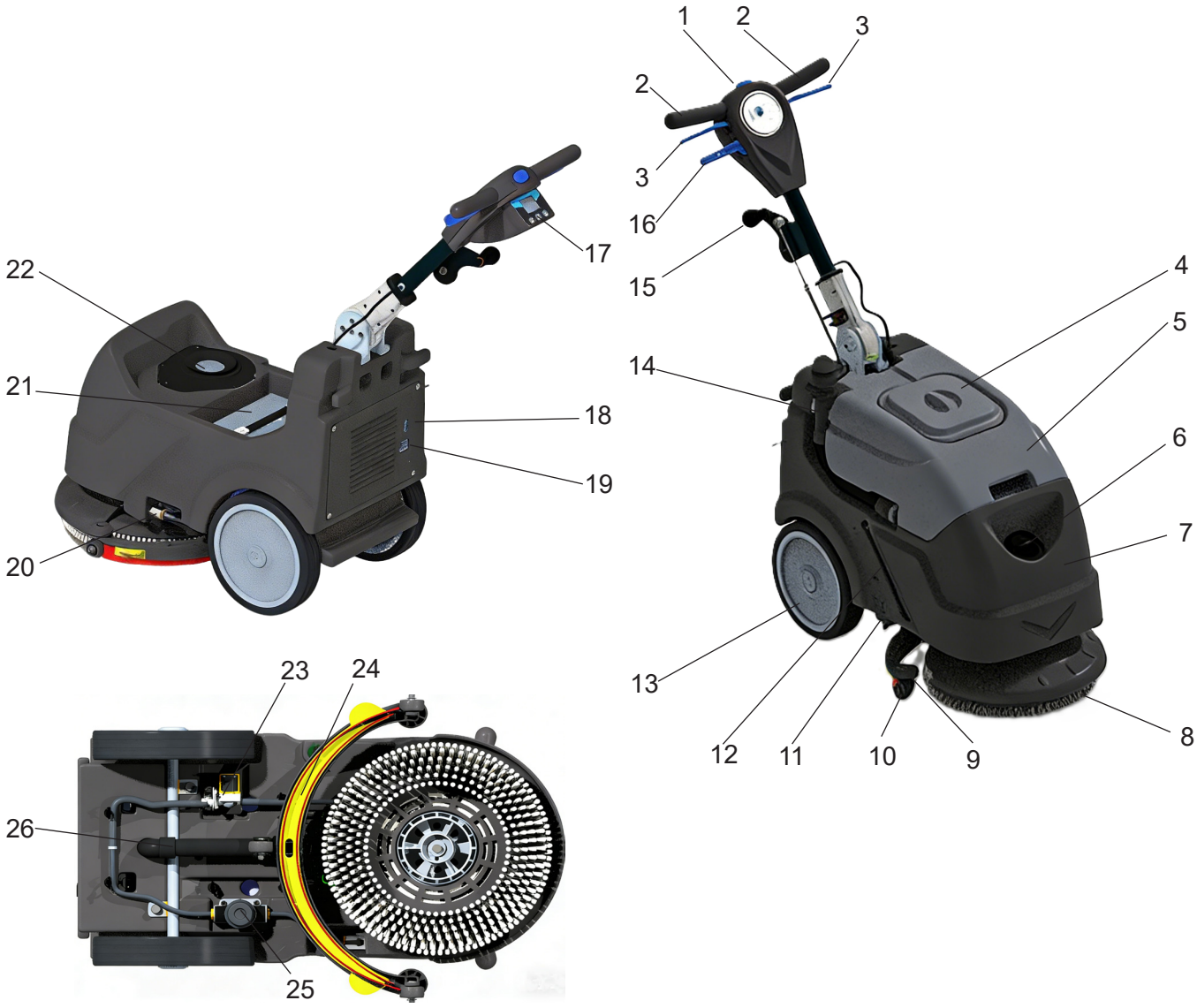
**5. When servicing machine:**
- Read operators manual thoroughly prior to operating or servicing this machine.
- Use manufacturer supplied or approved replacement parts.
- Secure machine with wheel blocks prior to jacking the machine up.
- Use approved jack or hoist to safely elevate the machine.
- Disconnect batteries prior to working on machine.
- Avoid moving parts. Do not wear loose fitting clothing while servicing machine.

**⚠ WARNING: Fire or Explosion Hazard. Keep sparks and open flames away! Keep battery compartment open when charging.**

**⚠ WARNING: Flammable materials can cause an explosion or fire. Do not use flammable materials in tanks.**

**⚠ WARNING: Flammable materials or reactive metals can cause explosion or fire. Do not pick up.**

# MACHINE COMPONENTS




1. Safety Lock-Out Switch
2. Control Handle
3. Trigger
4. Recovery Tank Cover
5. Recovery Tank
6. Bucket Fill Port
7. Solution Tank
8. Scrub Head
9. Bumper Rollers
10. Caster,1.5Inch,Squeegee Blade Adjustment
11. Solution Tank Drain Port
12. Clean Water Level Display Tubing
13. 10 Inch Wheels
14. Recovery Tank Drain Hose
15. Squeegee Lift Lever
16. Handle adjustment lever
17. Control panel
18. Indicator Window,Battery Charger
19. Connector, On-Board Battery Charger
20. Ball Valve
21. Batteries
22. Vacuum Motor, 24VDC
23. Solenoid, 24VDC
24. Squeegee Assembly
25. Filter Assembly
26. Squeegee Vacuum Hose

## MACHINE OPERATION

**FOR SAFETY: Do not operate machine unless user manual is read and understood.**

**PRE-OPERATION**

**1. IMPORTANT:** To prevent vacuum system from clogging, sweep and dust-mop floor.

**2.** Make sure battery is fully charged.

**3.**Check that the brush and squeegee blades are properly installed.

**Pay attention to operation;**

**FOR SAFETY: Before Operating machine,follow safety guidelines concerning wet floors.**

**WARNING: Fire or Explosion Hazard, Do Not Use or Pick Up Flammable Materials.**

**WARNING: Spinning Brush. Keep Hands Away.**

**1.** Pull the handle adjustment lever(#16) and adjust the handle to a comfortable operating height. Release the lever to lock the position.



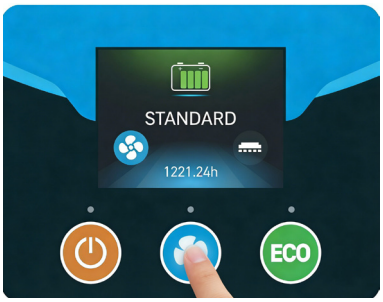


**2.** Press the start switch for 3 seconds to turn on the mahine.

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**3.** Turn on the vacuum motor switch.

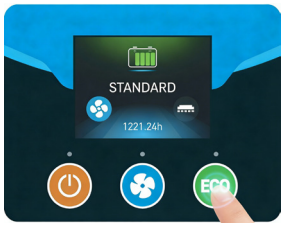



**4.** To begin scrubbing,first press the safety switch (#1),pull the start triggers(#3) and push or pull the machine in either direction .





**5.** Select a suitable working mode by selecting the working mode button. This the machine has two modes of operation: ECO mode, and standard mode.




## MACHINE SET UP & INSTALLATION

### UNCRATING MACHINE

Be sure and check packing carton for any damage. Immediately report any damage to carrier. Check the contents of package to ensure that the following items are included:

- Machine
- Batteries
- Squeegee assembly
- Battery Charger
- Brush
- Pad Driver

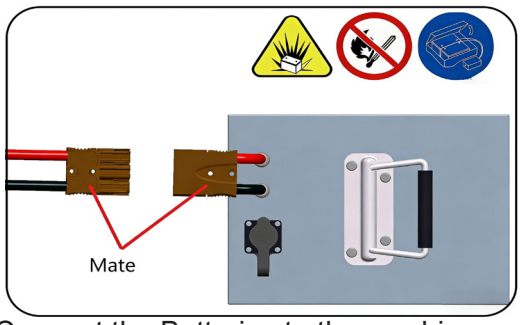
### INSTALLING BATTERIES

**Before using the machine, place the battery into the battery compartment, then connect the cable connectors.**

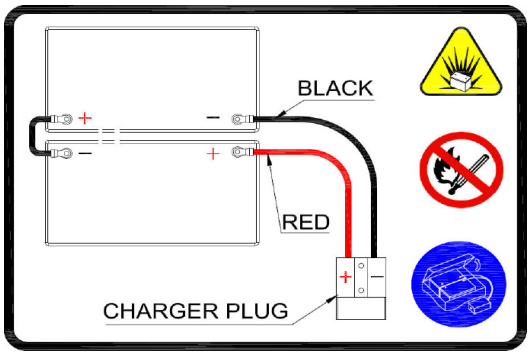
**WARNING: Fire or Explosion Hazard. Keep sparks and open flames away! Keep battery compartment open when charging.**

1. Turn off the machine.
2. Lift the Recovery tank (see machine components, #5) to access the battery compartment.
3. Carefully place the into the compartment as shown in figure below.
   **DO NOT DROP BATTERIES INTO COMPARTMENT!**

4. Connect the Lithium-ion Batteries to the machine as shown in below figure.




5. Connect the Batteries to the machine as shown in below figure.




## MACHINE SET UP

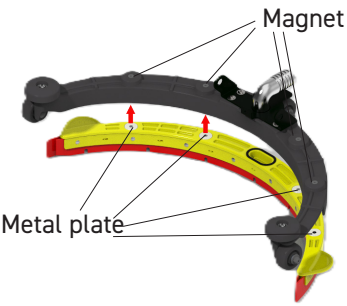
### PRE-OPERATION CHECKS

1. Sweep or dust mop the surface to be cleaned.
2. Check battery meter to make sure batteries are fully charged. (See BATTERY CHARGING)
3. Check that squeegee is properly installed.
4. Check that brush is propeny installed.

### MOUNTING THE SQUEEGEE ASSEMBLY

1. Rise the Squeegee lift lever to the upward position.
2. Align the squeegee assembly(see machine components, p5 item #24) with the slot of the wiper frame and install it by magnetic attraction.
3. Connect the vacuum hose to the squeegee assembly.
4. Check the squeegee blades for proper adjustment.






### FILLING THE SOLUTION TANK

The machine is equipped with a Solution fill-port (see machine components, p5 item #6 )at the front of the Solution tank, you can fill the solution tank by using a hose or a bucket.

When using the bucket, stop filling when the level reaches the bottom edge of the fill-port.

**Convertional scrubbing** - Fill solution tank with water (not to exceed 60°C/140°F). Pour a recommended cleaning detergent into the solution tank according to mixing instructions on the container.

**NOTE:** *When filling the solution tank with a bucket, make sure that the bucket is clean. Do not use the same bucket for filling and draining the machine.*

**WARNING: Do not put any flammable materials into solution tank. This can cause an explosion or a fire. Only use recommended cleaning chemicals. Contact your Simple Clean Scrubbers dealer for recommendations on proper chemicals.**

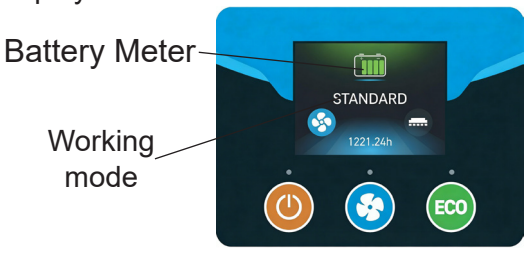
## WHILE OPERATING MACHINE

**WARNING: Fire Or Explosion Hazard. Do Not Pick Up Flammable Materials Or Reactive Metals.**

1. Go slow on inclines and slippery surfaces. Do not operate the machine on inclines that exceed 5% (3°).
2. Do not keep the machine in the same position with brush spinning, keep the machine moving to prevent damage to floor finish.
3. If the squeegee assembly leaves streaks on the floor, raise the squeegee off the floor and wipe the blades down with a damp cloth. Pre-sweep the area to prevent leaving streaks on the floor.
4. Pour a recommended defoamer into the recovery tank if excessive foam appears.

**WARNING: Do not allow foam to enter the float shut-off screen, vacuum motor damage will result. Foam will not activate the float shut-off screen.**

5. Panel (see machine components, p5 item #17 ) display instructions:




Occasionally check the Battery Meter.When the is displayed in red, Battery meter stop working and charge the battery.

6. When the solution tank runs empty, release the trigger and lift the brush head. Keep the squeegee down and continue to vacuum until all the dirty water is picked up.

**NOTE:** See **TANK DRAINING** section to learn how to drain recovery and solution tanks.

## TANK DRAINING

1. Turn off the machine.
2. With the squeegee in their "up" position, transport machine to approved area for draining tank(s).

### DRAINING THE RECOVERY TANK

Any time scrubbing is completed, or when refilling solution tank, the recovery tank should be drained and cleaned.

**WARNING: If the recovery tank is not drained when the solution tank has been refilled, foam or water may enter the float shut-off screen and cause damage to the vacuum motor.**

1. While holding the drain hose (see machine components, p5 item #14) upward, remove the cap and lower hose to drain.
2. Open the recovery tank cover and rinse out the tank. Use a rag to remove any excess dirt.

### DRAINING THE SOLUTION TANK

Any time scrubbing operation is completed, the solution tank should be drained and cleaned.

1. Open the drain cover(see machine components, p5 item #11) , this will allow the solution to flow freely into a bucket or floor drain.
2. Remove the cover of the filter assembly to drain the solution tank, check the filter screen and clean up it if necessary.
3. Rinse the solution tank with clean water after every use. This will help prevent chemical buildup and clogging of the solution lines.
4. After rinsing out the tank, securely reconnect the tank level hose to the hose fitting, replace the filter assembly cover and be sure the filter screen and the "O" ring is in the correct position.

## BATTERY CHARGING

**WARNING: Fire Or Explosion Hazard. Batteries Emit Hydrogen Gas. Keep Sparks and Open Flame Away. Keep Battery Compartment Propped Open When Charging.**

1. Transport the machine to a well ventilated area.
2. Turn the machine off.
3. If charging wet, lead acid, batteries check the fluid level before charging.
4. Connect the charger's AC power supply cord to a properly grounded receptacle.
5. The charger will automatically begin to charge, you can watch the charging status on the window (machine components, p5 item #18), once the charging cycle begins, the indicator lights will progress from red, yellow to green. When the green indicator light comes on, the charging cycle is done. Unplug the charger cord.

**NOTE: The machine will not operate when charging.**

# PREVENTATIVE MAINTENANCE

**WARNING: Before performing any maintenance on the machine, be sure that the power is turned off, or the batteries are disconnected!**

**WARNING: Repairs are to be completed by Authorized service centers only. Any repairs completed by unauthorized persons will void the warranty.**

## DAILY MAINTENANCE

1. Remove brush and clean with approved cleaner.
2. Drain recovery and solution tanks completely and rinse out with clean water. Visually check the recovery tank for debris and clean out as necessary.
3. Raise the squeegee assembly off floor and wipe it down with a damp towel. Be sure to store the squeegee in the up position.
4. Remove the float shut-off assembly and rinse it out with clean water.
5. Clean machine with an approved cleaner and a damp towel.
6. Recharge the batteries.
7. Check the condition of the squeegee blade wiping edge, replace blade if worn.

## MONTHLY MAINTENANCE

1. Clean the battery tops to prevent corrosion.
2. Check for loose battery cable connections.
3. Inspect and clean the recovery tank cover seal. Replace it if damaged.
4. Lubricate all grease points and pivot points with silicon spray and approved grease.
5. Check the machine for loose nuts and bolts.
6. Check the machine for leaks.
7. Battery must be stored in a charged state, please charge monthly.

## MOTOR MAINTENANCE

1. Contact your dealer for any motor maintnance.
2. Motor should have the brushes checked every 250 hours. Brushes should be replaced when they are worn to a length of 10 mm or less.

## BATTERY MAINTENANCE

**WARNING: Batteries emit hydrogen gas and an explosion o fire can result. Keep sparks and fire away from batteries at all times.**

**WARNING: Whenever servicing batteries, be sure to wear protective gloves. Avoid contact with battery acid at all times.**

***NOTE:*** *For the best machine performance, keep batteries properly charged at all times. Do not let them sit in a discharged condition.*

1. Always follow the battery charging directions as outlined in the battery charging section of this manual.
2. Keep battery tops and terminals free from corrosion. A strong solution of baking soda and water is the best way to keep the batteries corrosion free. Do not allow the baking soda / water solution to enter the battery cells.
3. Use a wire brush with the baking soda solution to properly clean the battery posts and connections.
4. Check battery connections for wear and loose terminals. Replace if necessary.

## MACHINE STORAGE

1. Always store the machine indoors.
2. Always store the machine in a dry area.
3. Always store the machine in its upright position.
4. Always store the machine with the brush raised off the floor.
5. Always store the machine with the squeegee assembly raised off the floor.
6. If storing in an area which may reach freezing temperatures, be sure to drain all fluids from the machine prior to storage. Any damage caused by freezing temperatures will not be covered by the warranty.
7. Drain the recovery tank.
8. Drain the solution tank of all fluid.

## BASIC TROUBLESHOOTING

| PROBLEM | CAUSE | SOLUTION |
|---|---|---|
| Machine will not operate | Batteries need to be charged | Charge batteries |
| | Bad battery(s) | Replace battery(s) |
| | Loose battery cable | Tighten loose cable |
| Brush motor will not operate | Control handle trigger not pulled | Pull control handle trigger |
| | Brush motor unit circuit breaker tripped | Reset brush motor unit circuit breaker |
| | Bad brush motor switch | Replace brush motor switch |
| | Faulty brush motor or wiring | Contact ICE service Dealer |
| | Worn motor carbon brushes | Contact ICE service Dealer |
| Vacuum motor will not operate | Bad vacuum motor switch | Replace vacuum motor switch |
| | Bad vacuum motor relay | Replace vacuum motor relay |
| | Faulty vacuum motor or wiring | Contact ICE service Dealer |
| | Worn Motor carbon brushes | Contact ICE service Dealer |
| Little or no solution flow | Ball valve is shut off | Turn on the ball valve |
| | Clogged solution tank filter or solution hose | Clean solution tank filter or flush out solution hose |
| | Clogged solution Solenoid valve | Remove valve and clean |
| Poor water pick up | Recovery tank is full | Drain recovery tank |
| | Loose drain hose cap | Tighten cap |
| | Clogged float shut-off screen located in recovery tank | Clean screen |
| | Clogged squeegee assembly | Clean squeegee assembly |
| | Worn squeegee blades | Replace or rotate squeegee blades |
| | Incorrect squeegee blade deflection | Adjust squeegee blade height |
| | Loose vacuum hose connections | Secure hose connections |
| | Clogged vacuum hose | Remove clogged debris |
| | Damaged vacuum hose | Replace vacuum hose |
| | Recovery tank lid not in place | Properly position cover |
| | Damaged recovery tank cover seal | Replace seal |
| | Faulty vacuum motor | Contact ICE service Dealer |
| | Low battery charge | Recharge batteries |
| Short run time | Low battery charge | Fully recharge batteries |
| | Defective batteries | Replace batteries |
| | Batteries need maintenance | See battery maintenance |
| | Faulty battery charger | Repair or replace battery charger |

# TECHNICAL SPECIFICATIONS

| MODEL | 15Y/15YL<br>Brush Assist |
|---|---|
| DIMENSIONS L | 30in / 760 mm |
| DIMENSIONS W | 20 in / 510mm |
| DIMENSIONS H | 27.5 in / 700 mm |
| WEIGHT | 89.3 lbs / 40.5Kg |
| WEIGHT WITH BATTERIES | 107 lbs /48.5Kg |
| RECOVERY TANK CAPACITY | 4.5Gal / 16.5 L |
| SOLUTION TANK CAPACITY | 4Gal / 15 L |
| SQUEEGEE WIDTH | 19 in / 480 mm |
| CLEANING PATH WIDTH | 15 in / 381 mm (Disk) |
| PRODUCTIVITY RATE | 13993 ft² /1300 ㎡ h |
| DRIVE SYSTEM | Brush Assisted |
| BRUSH MOTOR | 0.27hp / 0.2KW<br>140 RPM |
| VACUUM MOTOR | 0.54hp / 0.4KW |
| WATER LIFT - AIR FLOW | 40 in / 1,016 mm |
| BATTERIES | 15Y: 2-12， 33Ah @ 20 hr<br>15YL: Lithium-ion Battery, 24VDC 30Ah |
| RUN TIME PER CHARGE | STANDARD: 70 Min<br>ECO: 85 Min |
| VOLTAGE DC | 24V |
| DECIBEL RATE AT OPERATOR'S EAR, INDOORS | STANDARD: 71dB(A)<br>ECO: 69dB(A) |
| GRADE LEVEL, MAX | 5% (3°) |

# DECLARATION OF CONFORMITY

ICE Cobotics EMEA
Tokyostraat 27,1175RB,Lijnden,the Netherlands

Herewith we declare that the product
Automatic Scrubber
Model number: 15Y,15YL
Serial number range:
15Y : 60084 100001 - 60084 199999
15YL : 60072 100001 - 60072 199999

is in conformity with the following European Directives and harmonised standards
2006/42/EC, 2014/30/EU
EN 60335-2-72:2012 used in conjunction with EN 60335 1:2012+A11:2014+A13:2017+A1:2019+A14:2019+A2:2019+A15:2021+A16:2023
EN IEC 61000-6-4:2019
EN IEC 61000-6-2:2019
EN IEC 61000-3-2:2019+A1:2021+A2:2024
EN 61000-3-3:2013+A1:2019+A2:2021

CE

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Lijnden, Jul.21,2026

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ICE Cobotics EMEA
Tokyostraat 27, 1175 RB , Lijnden, the Netherlands

# CERTIFICATE OF QUALIFIED

MODEL:_____ SERIAL NO.:_____

INSPECTOR:_____ DATE:_____

ICE Cobotics (GuangDong)Company Limited

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