



CO-BOTICS

AUTONOMOUS CLEANING
THROUGH INNOVATION

INTRODUCING THE NEWEST

MEMBER OF THE CO-BOTICS RANGE

PHANTAS!

www.ice-clean.com



[@industrial-cleaning-equipment-ltd](https://www.linkedin.com/company/industrial-cleaning-equipment-ltd)



[@ICEcleanLtd](https://twitter.com/ICEcleanLtd)

COLLABORATIVE

COHESIVE

INNOVATION



MEET PHANTAS!

The latest member to join the award-winning ICE Cobotics family – a compact 4-in-1 machine that sweeps, vacuums, scrubs, and dries!

The Phantas is a small machine with a 30 cm cleaning width that literally cleans right up to edges and corners, guaranteeing complete cleanliness. It is highly efficient and can clean effectively in tight spaces, narrow aisles and even under tables!



HASSLE FREE MAPPING

The on-board technology is now so advanced that the machine can even map itself without any human interaction – a huge step forward enabling quick and easy mapping of any cleaning area.

AUTOMATED REAL TIME MAP UPDATES

In a dynamic environment, Phantas will locate itself and update the current map in real time. The multi-sensor fusion allows Phantas to see the environment in 3D. This technology gives Phantas enhanced knowledge of its surroundings.

SMART OBSTACLE AVOIDANCE

Phantas detects both static and moving obstacles from all directions and can reposition itself to avoid these in real time, generating collision-free paths.

Phantas has robust obstacle recognition capabilities and makes behaviour decisions according to the type of obstacles eg. it will bypass electric wires rather than passing over them.



AT A GLANCE



4-in-1 floorcare solution!



Most compact machine on the market



Floor type recognition



Simple mapping



Remote management



Service station - charges, empties, cleans & re-fills





FLOOR TYPE RECOGNITION

The Phantas is able to identify different types of flooring and automatically adjust the cleaning mode required.

It is applicable to a variety of hard or soft flooring:

- Low pile carpeting (Nylon, Polyester, Olefin, etc.)
- Natural Stone (Marble, Granite, Belgian Bluestone, etc.)
- Artificial Marble/Granite/Ceramic Tiles
- Hardwood
- Concrete
- PVC
- Epoxy



NYLON



POLYESTER



OLEFIN



MARBLE



GRANITE



LIMESTONE



ARTIFICIAL MARBLE



CERAMIC



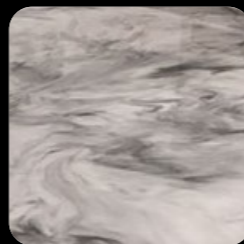
HARDWOOD



CONCRETE



PVC



EPOXY



INTEGRATED TECHNOLOGY

Phantas is able to connect with the IoT system of a building through API or NFC which allows it to autonomously take elevators to perform cleaning across floors and pass through fare gates without human assistance.



TRUE AUTONOMY

The Phantas also has a workstation which can be purchased as an optional extra to help minimise human intervention during operation.

By autonomously docking with the workstation it is able to:



AUTO CHARGE



AUTO EMPTY & REFILL WATER



AUTO TANK CLEANING



APP & CLOUD BASED MANAGEMENT

MANAGE THE MACHINE REMOTELY INCLUDING:



SCHEDULE
CLEANING
TIMES



EDIT
CLEANING
MAPS



VIEW
MACHINE
DATA



MOVE
THE
MACHINE

CLOUD-BASED MAINTENANCE



REMOTE SOFTWARE UPDATES



REMOTE DIAGNOSTICS &
TROUBLESHOOTING



SERVICE THROUGH INNOVATION

ICE Procurement Options

RENTAL



- Fully flexible model
- Expands and contracts with business needs
- Weekly charge includes service
- Minimum term contract
- Equipment from rental fleet
- Compliance testing included
- Ongoing training & support
- Invoiced monthly with asset list

PURCHASE



- Paid within contractual terms
- New equipment
- PO must be provided
- Training upon delivery
- Choice of service packages
- Support with reallocation of kit if required

LEASE



- Choice of new/refurb equipment
- No CapEX required
- Fixed term lease over 2,3,4 or 5 years
- Choice of service packages
- Options to own or give back equipment at the term date
- Fixed monthly contract

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