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R12 - REX

THE KING OF CLEANS

SCAN ME TO
VIEW PDF



SINGAPORE
GOOD
DESIGN
2022



LIONSBOT

Forward-thinking Cleaning



R12 REX SCRUB

OUR ANSWER TO LARGE-SCALE CLEANING.

When we call our R12 Rex Scrub the king, we mean it. With two highly-efficient 16-inch class-leading brushes, its 80kg of unadulterated scrubbing power is distributed over a larger surface area, maximising its cleaning speed and efficacy to deliver dramatic results in just one pass—for up to 10 hours. It's time to make way for the King of Cleans.

AT A GLANCE



8-10 HOURS LONG RUNTIME

Out-cleans the competition—twice over. While competitor robots only run for 4-6 hours, the R12 Rex Scrub can clean up to 10 hours on a single charge.



Before Defoamer



After Defoamer

CHEMICAL DOSING

Every R12 Rex has a defoaming chemical dosing system that allows it to accurately control the ratio of chemicals to water, delivering the optimum amount to every clean—and netting long-term savings.



81CM CLEANING WIDTH

Two 16-inch brushes with a total coverage of 81cm—exceptional for its class—to clean more, and clean faster.

80KG DOWNWARD PRESSURE

With this much class-leading cleaning power, even the toughest of stains are no match for the R12 Rex Scrub.

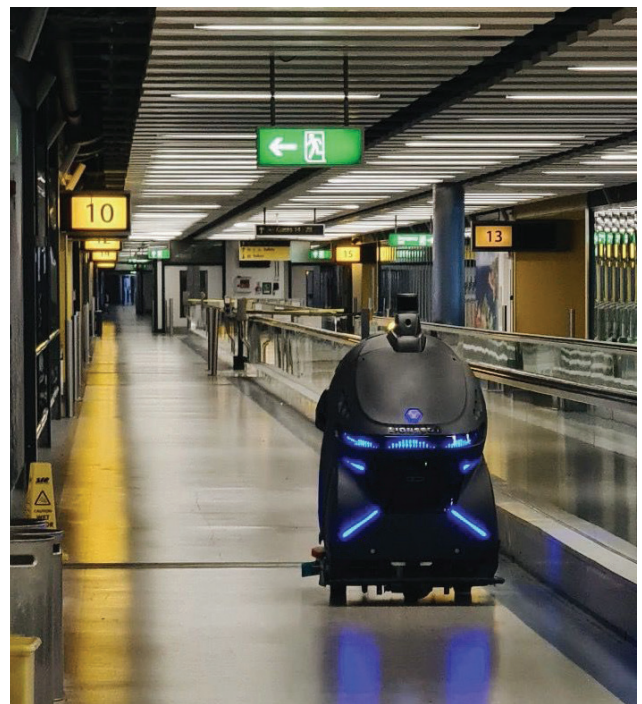
TWO 140L CAPACITY TANKS

Get more cleaning done out of every charge—with two huge 140L clean water and recovery tanks.

PLACES WE CLEAN



Shopping malls



Airports

R12 REX CS

NO MORE PRE-SWEEPING.

Outclassing autonomous cleaning robots in its category, there's no stain too stubborn nor site too spacious for the R12 Rex CS. Designed for high performance and convenience, it cleans large areas while picking up debris with twin cylindrical brushes and side brushes—no more pre-sweeping needed. When it comes to cleaning, there's nothing more effective.



CLEANS LIKE A CHAMPION FOR 3.5 - 4.5 HOURS



95KG DOWNWARD PRESSURE

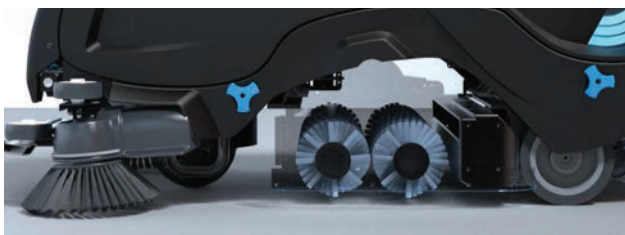
Ensures that your floors receive better cleaning, leaving them immaculate after the R12 Rex CS is done with them.



NYLON CARBIDE-COATED CYLINDRICAL BRUSHES

Designed and built for incredible durability, ensuring that it can clean and sweep up debris effectively and without interruption.

AT A GLANCE



127CM CLEANING WIDTH

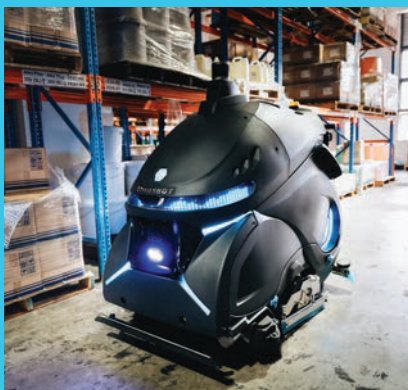
A large cleaning coverage courtesy of its impressive twin 77cm cylindrical brushes and side brushes, that also pick up debris efficiently.



9.5L DEBRIS TRAY

Designed for convenience and built with plastic, ensuring that it's easy to clean and non-corrosive.

AREAS WE CLEAN



Warehouses



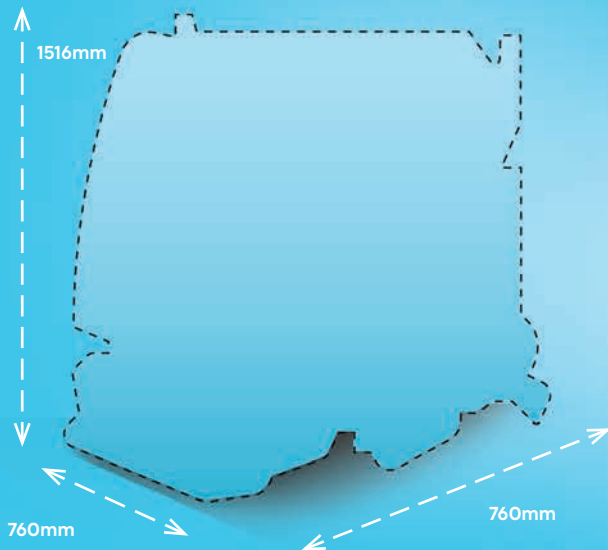
Carparks



Factories

COMPARED TO OTHER 100L MACHINES, THE R12 REX 'ROARS.'

COMPETITION



THE R12 REX



109 L

REX carries
28% MORE
water

140 L

66 cm

Its brushes
are 22%
BIGGER

81 cm

4 - 6 hrs

It has a
LONGER
runtime

8 - 10 hrs

75 dB

And blends
into the
background
noise

75 dB

EASY TO USE, ALWAYS

The Rex maximises accessibility with multiple modes of use — giving users maximum flexibility in all cleaning situations.



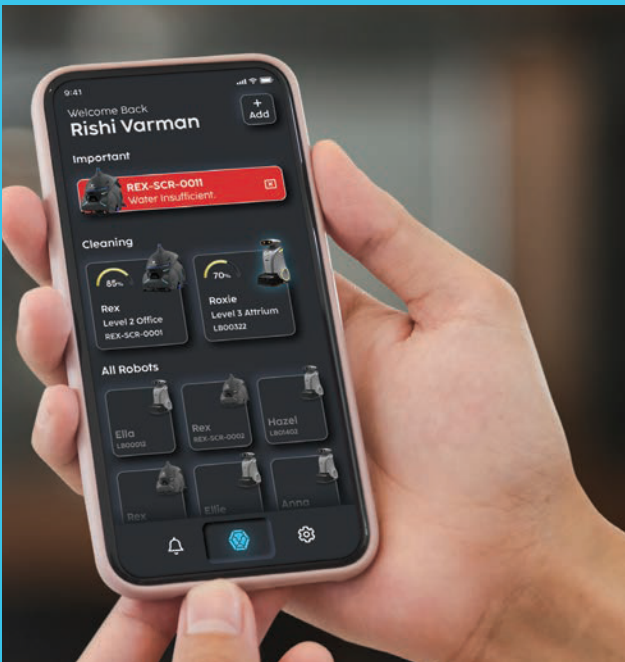
AUTOMATIC MODE

Hands-free autonomous cleaning and self-docking with just a few taps



MANUAL MODE

Intuitive handling makes hands-on control easy



LIONSCLEAN APP

Complete control in the palm of your hand—the LionsClean app is an easy, remote way to command your Rex

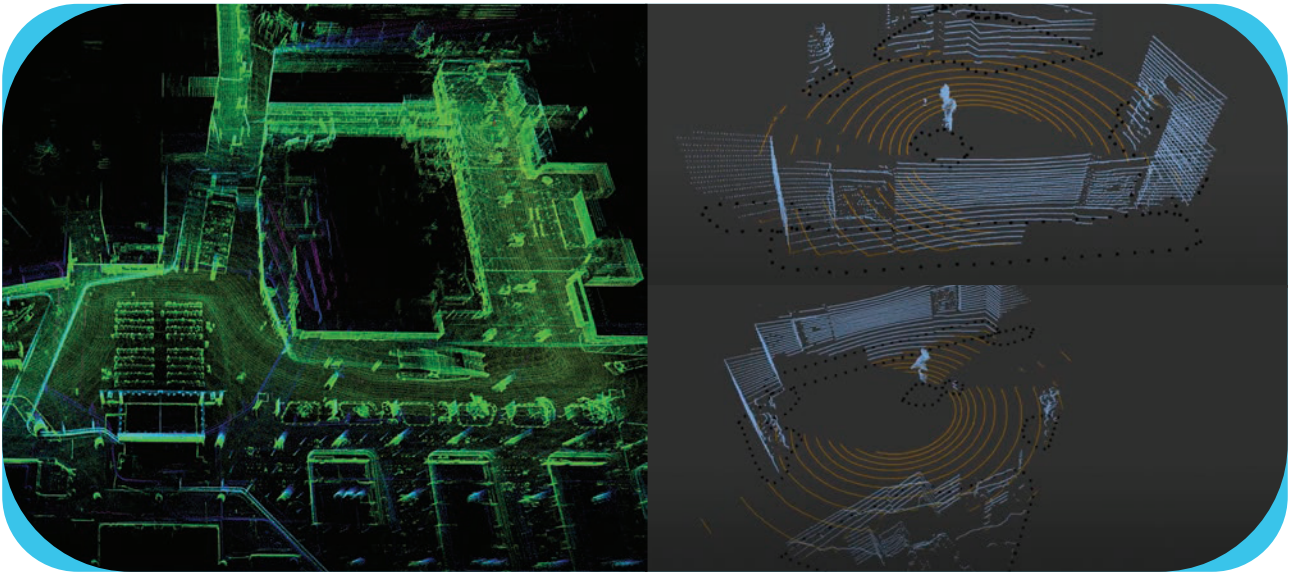


TOUCHSCREEN MODE

The in-built touchscreen gives greater accessibility—no apps required

CLASS LEADING WITH 3D SLAM

200 METER LIDAR COVERAGE



THE REX SEES THE WORLD IN RICH 3D

Its class-leading, comprehensive sensor network features a high-definition LiDAR with a 200m diameter range, depth camera mesh, and sonar sensors. This means the R12 Rex is able to deliver autonomous cleaning a lot more accurately and effectively avoid dangers thanks to advanced active obstacle tracking. With 3D slam technology, the R12 Rex is able to navigate better, plan its path smarter, all while not using localisation.

NON-STOP CLEANING



SWAPPABLE BATTERIES

For a big machine, the R12 Rex is designed to make operations simple. Its powerful batteries come with their own easy-to-use trolley—just slide in and out effortlessly.



REFUEL STATION (OPTIONAL)

The only 100L-plus autonomous cleaning robot with auto-docking capabilities, it returns to the station automatically after every cleaning cycle—charging itself and managing solution levels with automated rinsing and water exchange.

PROUDLY MADE IN SINGAPORE

Built for greater reliability and safety, the R12 Rex is designed to the most stringent standards, with top quality components and materials.



BUILT TO LAST

Built and designed with only the best quality materials, the R12 Rex can withstand immense wear and tear over time.



LONGEST RUNNING TIME

Its advanced energy management system allows it to outclass competitors, surpass industry standards, and run for longer.



MADE IN SINGAPORE

Rest assured that great quality is guaranteed, with all production kept exclusively in-house at our Singapore headquarters.

AWARD-WINNING FUTURISTIC DESIGN

Recognised as a cleaning powerhouse—and what a cleaning machine should aspire to be. A winner of the Singapore Good Design Award 2022, the R12 Rex received praise for its class-leading, cutting-edge technology and qualities.

The R12 Rex stands out with its robust, dynamic, and beautiful build that is highlighted with impressive lights and sounds—so you'll always know when it's nearby.



DESIGNED FOR SUSTAINABILITY

Great efficiency makes for greener cleaners—and that extends to the R12 Rex as well! With a class-leading brush size and larger water and waste-water tanks, the Rex delivers efficient cleaning—a pound-for-pound winner that both you and the planet will love.

WATER DONATION

LionsBot works with Charity: Water to build water networks for rural communities in Bangladesh—ensuring they have access to clean water.



**2 YEARS OF ROBOT WATER
CONSUMPTION IS DONATED WITH
EVERY ROBOT SOLD**

**101,920 LITRES /
26,924 GALLONS**

ONE-OFF DONATION CORRESPONDING TO R12
REX WATER USAGE OVER 2 YEARS

 **charity: water**

(140 LITRES OF WATER X 7 DAYS OF USAGE PER
WEEK X 52 WEEKS PER YEAR)

MANGROVE TREE PLANTING

LionsBot has partnered with Evergreen to ensure a mangrove is planted in Indonesia for every LionsBot robot purchased, helping to offset CO² and alleviating poverty.



ONE

**MANGROVE PLANTED FOR EVERY
ROBOT PURCHASED**

3,000

TREES PLANTED TO DATE

UP TO 300,000

KILOGRAMS OF CO² ABSORBED



Evergreen

DETAILED SPECIFICATIONS

| CATEGORY | R12 REX SCRUB | R12 REX CS |
|---------------------------------|--|--|
| Dimensions (L x W x H) | 1675 x 870 x 1473 mm | 1715 x 938 x 1473 mm |
| Robot Weight (Transport) | 549.5 kg | 585 kg |
| Robot Weight (Cleaning) | 689.5 kg | 748 kg |
| Maximum Slope | 6 degrees | |
| Working Width | 810 mm (2 x 16" Brushes/Pads) | 780 mm (Without side brushes) 1270 mm (With side brushes) |
| Squeegee Width | 950 mm | |
| Brush Pressure | Up to 80 kg | Up to 95 kg |
| Max. Cleaning & Transport Speed | Cleaning: 1.4m/s Transport: 0.7m/s | |
| Solution Tank | 140 L | |
| Reovery Tank | 140 L | |
| Chemical Pouch | 5 L | |
| Defoamer Capacity | 1 L | |
| Debris Tray Capacity | (NA) | 9.5 L |
| Battery | 250 Ah, J305 AGM | |
| Max. Runtime | 8 - 10 hrs | 3.5 - 4.5 hrs |
| Charging Time | 8 hrs | 8 hrs |
| User Control | Award winning LionsClean App, manually, or touchscreen | |
| Operation | Manual over-ride, Autonomous cleaning | |
| Cleaning Mechanism | 2x Brushes or Pads, Squeegee | 2x Cylindrical brush, 2x Side Sweeping brush, Squeegee |



R12 REX SCRUB



**R12 REX CS
(CYLINDRICAL SCRUBBING)**



LIONSBOT

Forward-thinking cleaning



Contact Us

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