



R12 - REX

THE KING OF CLEANS



SINGAPORE
GOOD
DESIGN
2022



LIONSBOT

Forward-thinking Cleaning



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.

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 6 hours. It's time to make way for the King of Cleans.

AT A GLANCE



5-6 HOURS LONG RUNTIME

Clean continuously for 5 - 6 hours with uncompromising performance. Cover up to 2500 m²/hr for fast, efficient cleaning.



Before Defoamer



After Defoamer

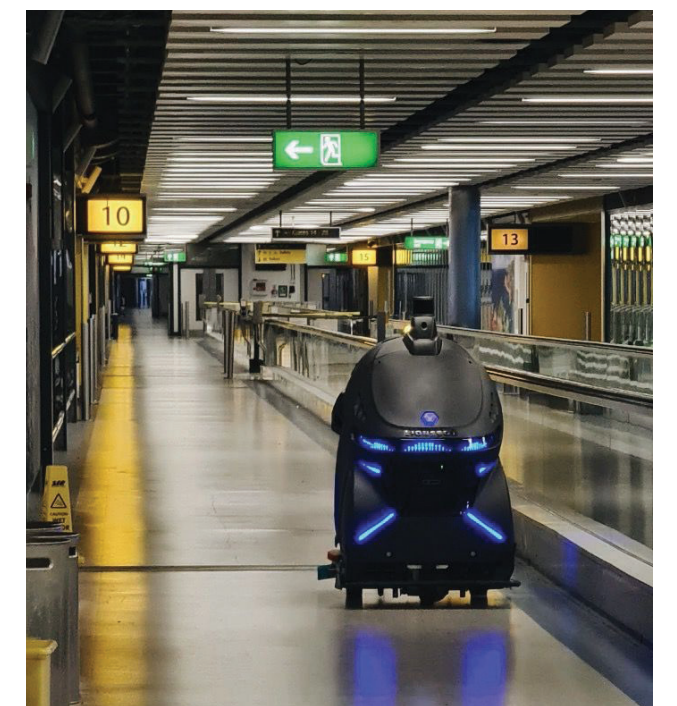
CHEMICAL DOSING

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.

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

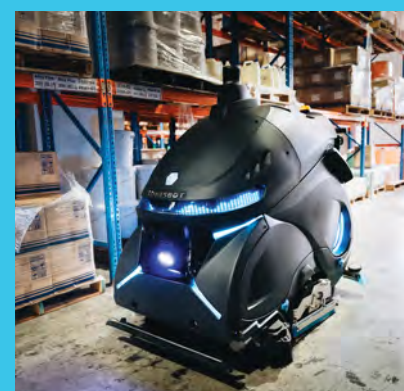
A large cleaning coverage courtesy of its impressive twin 77cm cylindrical brushes and side brushes, that also pick up debris efficiently.



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



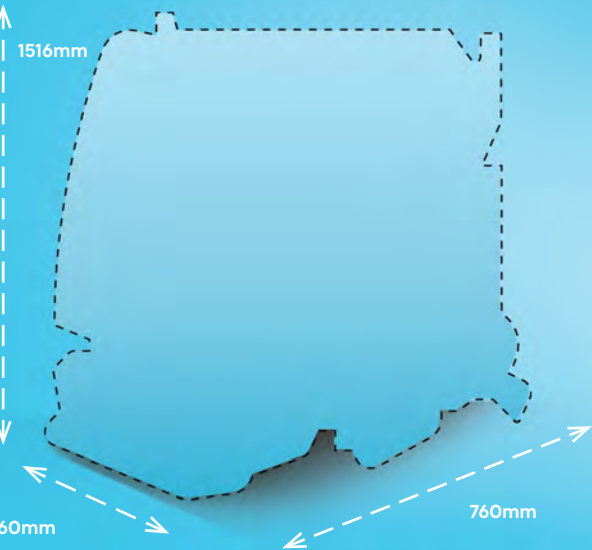
Carparks



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

5 – 6 hrs

75 dB

And blends
into the
background
noise

75 dB

EASY TO USE, ALWAYS

The R12 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

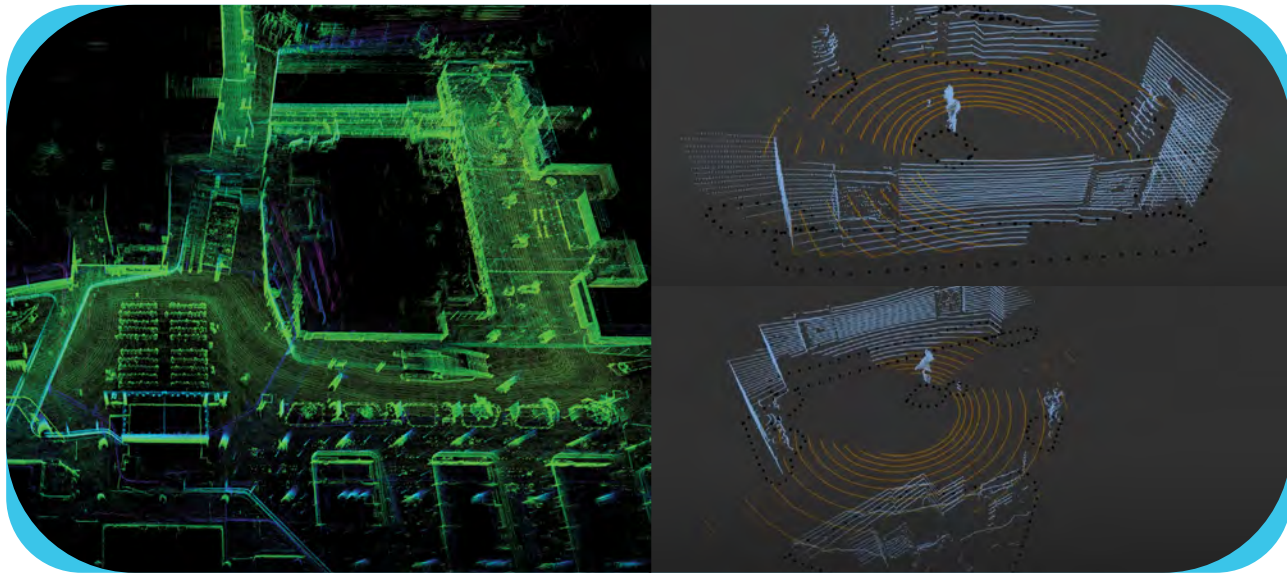
Complete control in the palm of your hand—the LionsClean app is an easy, remote way to command your R12 Rex



TOUCHSCREEN MODE

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

● CLASS LEADING WITH 3D SLAM ● 200 METER LIDAR COVERAGE



THE R12 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 R12 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



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



MANGROVE TREE PLANTING

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



Evertreen

ONE

MANGROVE PLANTED FOR EVERY ROBOT PURCHASED

3,000

TREES PLANTED TO DATE

UP TO 300,000

KILOGRAMS OF CO² ABSORBED

DETAILED SPECIFICATIONS

CATEGORY	R12 REX SCRUB	R12 REX CS
Dimensions (L x W x H)	1675 x 890 x 1473 mm / 65.9 x 35 x 57.9 in	1715 x 938 x 1473 mm / 67.5 x 36.9 x 58 in
Robot Weight (Transport)	550 kg / 1,212 lbs	585 kg / 1,290 lbs
Robot Weight (Cleaning)	690 kg / 1,521 lbs	748 kg / 1,649 lbs
Maximum Slope	6 degrees (Manual mode only)	
Working Width	810 mm / 32 in (2 x 16" Brushes/Pads)	780 mm / 30.7 in (Without side brushes) 1270 mm / 50 in (With side brushes)
Squeegee Width	950 mm / 37.4 in	
Brush Pressure	Up to 80 kg / 176 lbs	Up to 95 kg / 209 lbs
Max. Cleaning & Transport Speed	Cleaning: 1.4 m/s Transport: 0.7 m/s	
Solution Tank	140 L / 37 gal	
Recovery Tank	140 L / 37 gal	
Chemical Pouch	5 L / 1.3 gal	
Defoamer Capacity	1 L / 0.3 gal	
Debris Tray Capacity	(NA)	9.5 L / 2.5 gal
Battery	250 Ah, J305 AGM	
Max. Runtime	5 - 6 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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Made in Singapore

