T3P CORE

Autonomous Commercial Floor Cleaning System

Overview

Robo-Tek T3P CORE is a workstation-based autonomous scrubber designed for large indoor commercial environments. It combines scheduled cleaning, automatic charging, clean water refill and wastewater discharge with advanced obstacle detection and multi-sensor safety for consistent day-to-day floor care.

Model: T3P CORE (based on T3Plus platform)

Dimensions: 860 × 600 × 1100 mm

Weight: 150 kg (empty)

Key highlights

Autonomous cleaning Scheduled floor cleaning for large indoor facilities	**Workstation-based** Auto charge, refill and wastewater discharge
Up to 6 h runtime Up to 4.5 h at maximum vacuum load	**50 cm scrub width** Dual-disc scrubbing with up to 2000 m²/h theoretical productivity
90 cm pass width 150 cm minimum aisle turn width	**Advanced safety sensing** 3D + 2D laser, 4 cameras and 2 sonar

Selected headline specifications

Scrub width 50 cm (2 × 9.6 inch)	**Clean / recovery tanks** 50 L / 45 L
Battery capacity 104 Ah lithium-iron battery	**Charging time** 4 h
Maximum runtime 6 h	**Obstacle detection height** 5 cm
Minimum passing width 90 cm	**Minimum aisle turn width** 150 cm
Workstation footprint 150 × 250 cm	**Sensor suite** 3D laser + 2D laser + 4 cameras + 2 sonar

T3P CORE — Detailed Specifications

Cleaning performance		
Feature	**Unit**	**Figure**
Scrub Width	cm	50 (2*9.6 inch)
Brush Pressure	KG	20/30
Brush Speed	RPM	Up to 180
Clean Water Tank	L	50
Recovery Tank	L	45
Water Recycling	Y	5 - stage
Filter	μm	50/80
Detergent Tank	L	1
Defoamer Tank	L	1
Max Water Flow	L/min	1
Min Water Flow	L/min	0.5
Squeegee Width	mm	650/850
Max. Vacuum Power	Kpa	18
Max Speed	m/s	1
Max Theoretical Productivity / Actual	m^2/h	2000/600~1200
Working Mode		Auto/Manual
Auto charge/refill		Y
Min. obstacle detection height	cm	5
Edge Cleaning	cm	10

Mechanical & battery		
Feature	**Unit**	**Figure**
Sound Level	dB	70
Protection Grade	IP	IPX4
Machine Voltage	V	24
Rated Power of Driving Motor	W	300*2
Rated Power of Roller Brush Motor	W	300*2
Rated Power of Suction Motor	W	500
Battery Type		lithium-iron battery
Battery Capacity (max)	AH	104
Battery Weight	KG	24

Battery Compartment Size(L*W*H)	mm	315x255x160
Battery Quick Swaping		Y
Battery Charging Time		4h
Max. Run Time		6h
Run Time under the Max. Vacuuming level		4.5h

Site requirements & maneuverability

Feature	Unit	Figure
Gradeability	degree(°)	6
Minimum Aisle Turn Width	cm	150
Minimum Passing Width	cm	90

Workstation

Feature	Unit	Figure
Dimension	mm	430(L)*540(w)*460(H)
Deployment Size	cm	150*250

Software & connectivity

Feature	Unit	Figure
Mobile APP		Yes (scheduled release at end of Feb)
OTA update		Yes
Cloud platform		Yes (scheduled release at end of Feb)

Safety system

Feature	Unit	Figure
Sensor		3D Laser+ 2D Laser+ 4X Cameras + 2X Sonar
E-stop Button		Y
Anti-collision Sensor		Y