RICHTECH ROBOTICS

MATRADEE *Your all-in-one solution to a high tech service experience.*
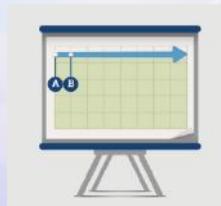

Looking to step into the future? Matradee is designed with your business in mind. Automate your business, and save money on your employee budget. A sturdy build, sleek design, and smart interface make Matradee the ultimate solution so you can spend less, and make more.
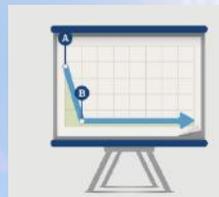
	WAITERS P/SHIFT	WAITERS COST P/YEAR	ADDITIONAL FEATURES
TRADITIONAL LABOR	④		✗ **Employee turnover** ✗ **Training costs** ✗ **Quality and reliability issues** ✗ **Employee injury** ✗ **Insurance costs** ✗ **Limited working hours** ✗ **Injury possibilities**
USING MATRADEE	①		✓ **Fixed expenses** ✓ **Reduced training costs** ✓ **Increased quality and reliability** ✓ **Setup with the help of our trained technicians** ✓ **2 Hours of Training for Staff** ✓ **Premium Upkeep Service included**

SALES LINE: **(866) 236-3835**   EMAIL: **SALES@RICHTECHROBOTICS.COM**

RICHTECH ROBOTICS

SMART

✓ Monitor analytics and get notifications on smart watches for fresh information
✓ Harness multiple Matradees for excellent efficiency
✓ Completely customizable - lights, voicing, movement to interact with guests
✓ Integrates with your existing software

EASY

✓ Easy to set-up for immediate use
✓ 10-14 hour battery life for sustainability during the workday
✓ Trays and buckets can be switched out for ultimate customization
✓ QR code integeration

SAFE

✓ Smart-sensing technology navigates obstacles and opens doors
✓ Compact build that easily passes through areas 2 ft or wider
✓ Thick Chassis for a low center of gravity and a sturdy, stable design
✓ Optional tray covers among other accessories

✓ Attend to your guests easier and faster with Matradee's assistance
✓ Reach Matradee through our mobile platform with QR Codes
✓ Set up the platform to view the menu, order items, checkout, and more

SPECIFICATIONS

	Matradee	Matradee X
Product Size	20.4 x 20.8 x 49.4 in	19.6 x 19.6 x 47.2 in
Product Weight	88.18 lbs	127.86 lbs
Motor Rated Power	80W	200W
Motor Encoder Accuracy	1024 line	4096 line
Control Platform Configuration	1G memory + 8G storage	2G memory+16G storage
Navigation System	Visual navigation	Visual navigation + Laser navigation
Battery Length	10-12 hrs	
Core Motion Control System	Industrial grade Linux 3.10.0, Ubuntu 14.04	
Operating System and Processor	Android 6.0; CORTEX-A7 eight-core, clocked at 2.0GHz	
Operating Temperature	32 - 113 °F	
Chassis	Thick chassis to ensure low center of gravity for stability.	
Auto Charge	Automatically returns to charging station when the battery is low.	
Battery	Vehicle-grade battery; capacity 48V 600Wh; with CB safety certification	
Charging Time	4 hours	
Battery Life	20,000 hours	
Battery Management System	Multiple safety protections, including overvoltage and overcurrent protection, short circuit protection, charging protection, discharge protection, temperature rise protection, impact protection, etc.	
Electric Motor	6.5 inch industrial grade servo hub motor.	
Climbing	Maximum slope of 5°	
Pallet Load	Single-layer pallet load is 22 lbs, maximum load of the whole machine is 88 lbs.	
Maximum Walking Speed	3.28 ft/s	
Minimum Pass Width	23.6 in	
Navigation	SLAM technology independent research and development of fully autonomous positioning and navigation technology.	
Radar	A new generation of TOF radar, 40m ultra-distance measurement range; with high-precision identification ≤5cm. High-performance pulse TOF technology FDA CLASS 1 safety level.	
Route Planning	Dynamic path planning algorithm, global path smoothing optimal solution.	
Intelligent Obstacle Avoidance	Dynamic prediction of obstacle behavior, dynamic weight network, fast obstacle avoidance in 0.1 seconds.	
Certification	FCC, EMC	
Security Advantage	Liability insurance in the United States.	
Waterproof Design	Sealed shell design to prevent food and beverages from spilling.	
Safety Design	Fire-resistant design of electronic circuit boards. The shell is covered with fireproof and, anti-collision hard pack protection. No risk of combustion or fire. The material complies with the UL94 flammability class V-0 standard,	