

BUILT FOR PEOPLE. DESIGNED TO PERFORM.

TYLER is a next-generation autonomous carpet installation robot engineered to make the commercial and residential installation process faster, safer, and more consistent. Designed by Human Friendly Robotics, TYLER combines industrial-grade power with intuitive operation to handle tough precision flooring challenges—so installation crews can focus on what matters most.

TECHNICAL SPECIFICATIONS

Model Variant	TYLER Floor-Master X2 (2026 Edition)
Drive System	Precision Independent Track Guidance System
Application Modality	Automated stretch, seam-lock, and heavy tacking
Chassis Build	Industrial-grade structural block casting (White finish)
Power Source	Hybrid: Dual hot-swappable battery cells + AC Power bypass
Operational Runtime	Continuous on AC line tether / 5 hours battery reserve
Navigation Core	Precision surface LiDAR & edge-mapping boundaries
Safety Standards	cULus Listed 22XZ Compliance Platform
Control Interface	Autonomous room-pathing via Smart-App / Pendant override

PHYSICAL DIMENSIONS

Length	28.5 inches (724 mm)
Width	22.2 inches (564 mm)
Height	26.8 inches (681 mm)
Tension Head Clearance	Zero-clearance wall & baseboard alignment
Net Weight	104 lbs (Counter-weighted for tension anchorage)

CORE CAPABILITIES

- Maximum Efficiency**
Delivers lightning-fast carpet stretching and alignment. Minimizes physical crew downtime, driving rapid room-turnover velocity with completely consistent, ripple-free flooring results.
- Built for Safety**
Eliminates standard manual knee-kicker and power-stretcher occupational strain. Protects crews from long-term joint wear and fatigue injuries while stabilizing daily jobsite labor.
- Smart & Intuitive**
Autonomous floorboard tracking algorithms intelligently adjust tension scaling dynamically based on textile thickness and backing structural matrix profiles.

APPLICATION FIELDS

- High-volume commercial workplace layouts
 - Multi-family residential development corridors
 - Hospitality, resort, and convention center ballrooms
 - Specialized precision textile stretch configurations
- Workforce Crisis Mitigation:**
Designed to counter the critical 2030 finishing trade deficit by scaling single-operator square footage output threefold.