

Innovation Meets
Uniqueness Producing
The Most Advanced AMR

The **TUGBOT** concept solved an industry problem by enabling companies of all sizes to automate their intra-logistics processes that use human labour to pull carts and trolleys from point A to point B.

Now presenting the second generation the **TUGBOT 2** with cutting-edge technology and improved performance on critical areas as pull force, serviceability, electronics and operational and charging times.



EASY TO USE QUICK TO DEPLOY



MAX PULL FORCE UP TO 600 KG



CHARGING TIME 25 MINUTES



BATTERY LIFE UP TO 8 HOURS

TUGBOT 2.0 Technical Specifications



Product Details

Collaborative autonomous mobile robot for transportation of payloads, tow wheeled carts, inspection, R&D and more

Dimensions

661 × 598 × 630 mm (LxWxH)

Weight

90Kg (base configuration)

Max Pull Force

Up to 600 Kg

Max Incline

5°

Operation Environment

Indoor

Attachments

Mechanical tow hook adjustable to any cart

Battery / Charger

LifePo 48V @ 21Ah Battery Charger - Wireless

Battery Life

Up to 8h

Charging Time

25 minutes

PC

Motherboard - B560M-ITX/ac CPU - i5-10500T RAM - 16Gb DDR4 Storage - 250Gb SSD

Sensors

1x Front Lidar
Sick Nanoscan3 – Safety
compliant ISO13849-1,
IEC61496-1/3
1x Rear Lidar
Sick TiM 561
Front and Rear Camera
2x RGB / 3D depth camera
(Realsense D435)
IMU - UM7 AHRS 9dof

Localization

2D Slam 3D Slam Natural Navigation

Mapping / Path Definition

Automatic Mapping
Follow-me path planning
Sketch work areas on the map
Path sketching
Geofencing

Navigation Behaviors

Follow object or person Seeking Seek and Fetch

Standard Behaviors

Battery charging behavior Obstacle behavior Intersection behavior

Safety

Emergency stop switch Obstacle detection 360° Warning light (revolving orange light) Sound Warnings RGB Status LEDs

Control

Any tablet web browser (HTML5 interface) Remote control device

Communication

Bluetooth WiFi





