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- **1000 kg Standard Capacity**
- **Magnetic Tap Navigation System**

About Technido: Technido is situated as a leading Indian player to offer custom solutions to the robotics and automation industries. We have handled various automation projects – ranging from CNC drilling machines, automatic packing machines and cut to length machines, among many others. Today, our client base spans various companies and organizations in the public safety and defense industries.

AUTOMATED GUIDED VEHICLE: The Automated Guided Vehicle is most commonly known in the industry by its acronym AGV. An AGV is the most advanced, economical, safe and efficient solution for point-to-point indoor material handling. An AGV is an independent load carrier which carries unit loads, bins and trays containing components from one point to another. It travels on a fixed, predetermined, linear or curved path and stops at defined workstation/s for loading or unloading of material.

We, at Technido, have successfully developed an advanced version of AGV Mark pro-52TD

Mark pro-52TD: Technido's Mark pro-52TD Automatic Guided Vehicle is a compact load transporter. The new generation design features the latest technologies and innovation that customers have stressed are important for automated material handling systems. The AGV can be provided with various configurations to adapt to most any application.

Material Transportation: The Mark pro-52TD is suitable for many material transportation applications, including use in manufacturing, distribution, commercial, hospitals, clean rooms, etc. The vehicle can be used for material movement between work cells, from pallet to stretch wrap, from packaging to shipping, from receiving to storage, and as a cart transfer device. It can transport racks, pallets, roll stock, slip sheets, trays, totes, food, laundry and supply carts, as well as Gaylord containers. This highly maneuverable AGV can safely travel in high traffic areas and in space-restricted areas.

The Mark pro-52TD is available with Navigation system of Magnetic Tap and advanced

The Mark pro-52TD is also available with Controller which is a brain of AGV and manages all the operations.

Mark pro-52TD

Features & Benefits

Standard Features

- Saves space, Flexible and completely safe.
- SMART AGV Onboard routing and traffic control logic
- Auto-return to battery charge area when battery is low
- Controls are mounted to allow easy accessibility
- Remove/Enter on path anywhere without resetting controls
- Rugged steel frame construction for industrial environments

Control Features

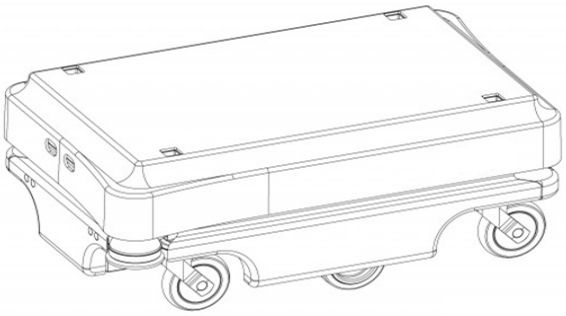
- Status, prompts and error messages controls
- AGV is having latest opportunity charging technology
- Easy to customize for special applications

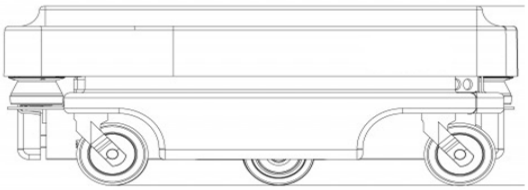
Warning and Safety Devices

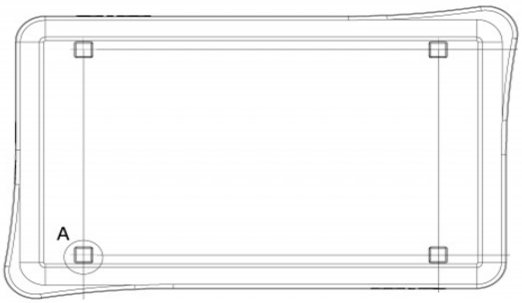
- Laser Scanner
- Emergency stop buttons
- Audio beeper while AGV is in motion
- Flashing warning lights while in motion

Options

- Automatic cart/trolly capture, transport and release
- Automatic battery charging
- Wi-Fi System Controls
- Remote vehicle management and dispatching
- Automated Routing
- Turn signals
- Programmable laser scanning safety bumper
- Load Management System.
- Dual range object detection
- Stainless steel finish.







Mechanical Specifications

Towing Capacity: 1000 kg.

Load Type: Application specific – Lift/Lower Deck, Cart Towing.

Drive Configuration: 4 wheel Drive

Steering Configuration: skid steering system

Drive Motor: 1-1.5 kW DC motor with encoder

Drive Wheel: 160mm diameter

Frame: Steel

Brake: Electric, fail-safe.

Manual Operation: Client Management operation

Approx. Weight: 350 kg (Without Load)

Speed in Automatic: maximum speed 60m/min

Controls Specifications

Controls: Microprocessor

Electrical System: 48-volt power

Navigation System: Magnetic tap based Magnetic Sensor(MGS1600GY)

Communications: Wi-Fi 802.11b (2.4Ghz)

Routing and Traffic: Onboard “smart” vehicle control logic

Battery Information

Battery System: Lithium Ion 48V **or**

Battery System: Four (4) 12V, 105 amp-hour sealed (maintenance free)

Battery Cycle: 8 hours minimum, based on standard duty cycle of 20% idle, 40% in motion full speed loaded, 40% in motion full speed unloaded.

Charging Method: Automatic charging system

Applications

- Automotive
- Auto Ancillaries Domestic
- Appliances Consumer / Electronics Defence
- Electrical Industries
- Moulded Luggage Garment
- Food Processing & Pharmaceuticals
- FMCG