Complete AGV fleet system

Complete system of 10 shuttles for the handling of semi-finished products between the different production areas and assembly phases.

In partnership with Comau and Kollmorgen, we are installing a fleet of 10 AGVs Agile 1500 for a well-known British luxury car manufacturer.

Agile1500 AGV represents the evolution of the market needs for fully automated logistics, and it is an important enabling factor within the Industry 4.0 paradigm.

With its maximum payload of 1.5 tons, it can be used within different production needs, different factory layouts and multi-purpose application possibilities. It is highly configurable and can be equipped with various accessories (optionals) for each specific function.

Agile1500 AGV uses Natural Navigation technology through a laser measurement system it is able to recognize natural landmarks such as walls and other surfaces. No installation is required in the system and this makes the Agile 1500 AGV a highly flexible and reconfigurable choice for its use in different environments.

Technical Features
- High performance vehicle
- Best load-size ratio in its category
- Modular design
- Possibility to implement multi-use applications
- Possibility of multiple navigation systems

Advantages
- Complete reconfigurability of these AGVs guarantees the return on investment and reduces the total cost of ownership
- Full compatibility with other Kollmorgen-based AGV systems
- Intuitive programming interface
- Total connectivity and predisposition for Factory 4.0 diagnostics
- Human-robot collaboration (in safety)
- Improved safety and ergonomics compared to traditional solutions
- Simplified maintenance

SIZE AND WEIGHT
- External dimensions (L x W x H) [mm]: 1404 x 680 x 530
- Weight [Kg]: 550

SPEED AND PERFORMANCE
- Maximum payload [Kg]: 1500
- Maximum speed [m/s]: 1.7 (in natural navigation)
- Positioning repeatability [mm]: ±10
- Maximum towing force [N]: 2400
- Maximum grade [%]: 1
- Operating environment: Indoor

BATTERY AND POWER SYSTEM
- Battery type: Maintenance-free Lead
- Battery characteristics [V] - [Ah]: 24 - 205

IMPLEMENTED INTERFACING AND COMMUNICATION
- Power supply: 24 Vdc Power, 24 Vdc Auxiliary
- Communication: CANopen fieldbus

1* Friction 0.5 / 350 ka on vehicle plate

TAIPRORA
Software & Automation Engineering
Smart Solutions for Smart Factories
AMH • Software • Automation Systems
www.taiprora.it