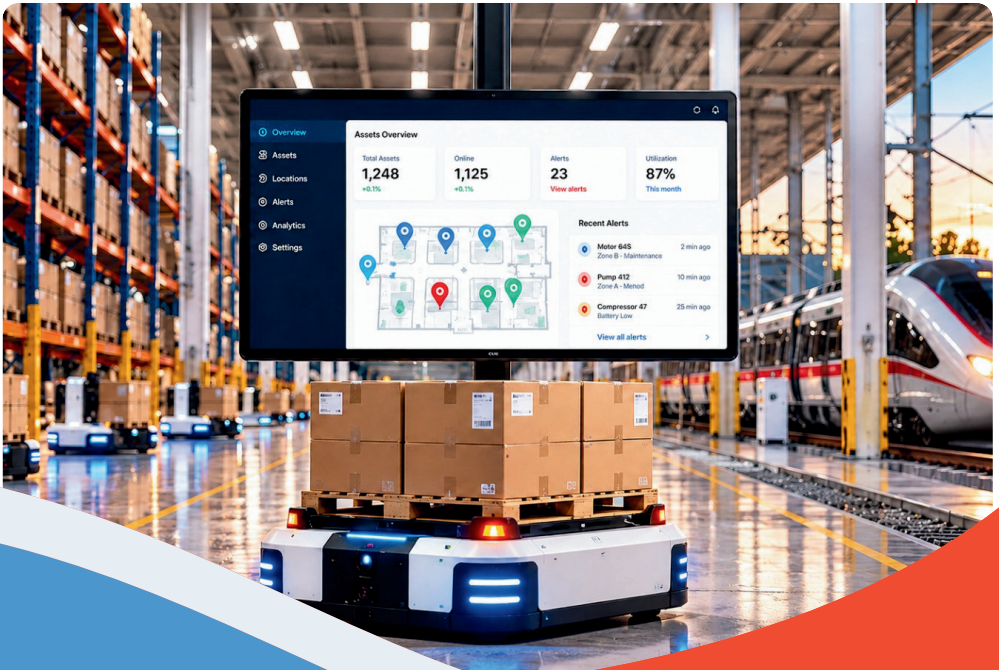




TECASER SARL
YOUR SUCCESS BEYOND BORDERS

INTRALOGISTICS

CATALOGUE



Opportunity Analysis

Where Can Automation Deliver Value ?

Automation starts by identifying material movements that consume time, resources and handling capacity.

- **Repeated Routes & Long Distances**

Regular movements between the same locations can be transformed into automated transport missions.

- **Inter-Zone & Scheduled Flows**

Recurring transport requirements between production, storage, picking and shipping areas.

- **High Traceability Requirements**

Accurate tracking of transport missions, material movements and pallet status throughout the logistics process.

Data to Analyze



Distances & Operating Hours

Analyze the travel distances and the time required for material movements.



Missions per Hour & Pallets per Day

Assess the frequency of transport missions and the daily volume of pallets to be moved.



Load Weights

Identify pallet weights to determine the appropriate handling solution.



Traffic Constraints

Identify aisles, intersections and access restrictions that may affect AGV movements.



Pickup & Drop-off Points

Identify pallet collection and delivery locations throughout the facility.

Operational Assessment

Where Do Delays and Inefficiencies Occur ?

Material flow performance can be affected by recurring operational challenges, including waiting times, congestion and traffic restrictions.



Waiting Times

Pallets are ready for transport, but handling equipment is unavailable or already in use.



Infrastructure Constraints

Automatic doors, restricted areas and intersections may affect transport efficiency.



Buffer Area Congestion

Pallets accumulate in temporary storage areas, disrupting material flows.



Demand Fluctuations

Peak activity periods require sufficient transport capacity to maintain operational performance.



RECEIVING AREA
Departure



BUFFER ZONE
Intermediate Storage



DOOR / ACCESS
Passage



STORAGE
Arrival

AGV Applications

One Pallet. One Route. One Automated Mission.

AGVs automate repetitive pallet transport operations, improving material flow efficiency while reducing manual handling.

Flow 01 INBOUND → STORAGE

Receiving and Put-Away
Automated transport of pallets from receiving docks to designated storage locations.



Flow 02 STORAGE → PICKING

Picking Area Replenishment
Automated transfer of pallets or load carriers from storage locations to picking areas.



Flow 03 PICKING → OUTBOUND

Transfer of Prepared Orders
Automated movement of completed orders from picking areas to outbound shipping zones.



Flow 04 STORAGE → OUTBOUND

Direct Transfer to Shipping
Automated transport of pallets directly from storage locations to outbound areas.



The most suitable AGV solution depends on load type, weight, lifting height, handling requirements and operating environment.

Control & Navigation

A Coordinated Fleet Adapted to Your Operating Environment



Fleet Management & Control

Intelligent mission allocation, task prioritization, traffic coordination and intersection management.

Advanced coordination of AGV movements and mission priorities to support efficient fleet operations.



Autonomous Navigation & SLAM

Environment mapping, laser-based navigation and continuous positioning throughout each mission.

Accurate navigation with minimal additional floor infrastructure.



VDA 5050 Interoperability Standard

A standardized communication interface designed to enable interoperability between mobile robots and fleet management systems.

Systems Integration

Seamless Automation Within Your Existing Infrastructure

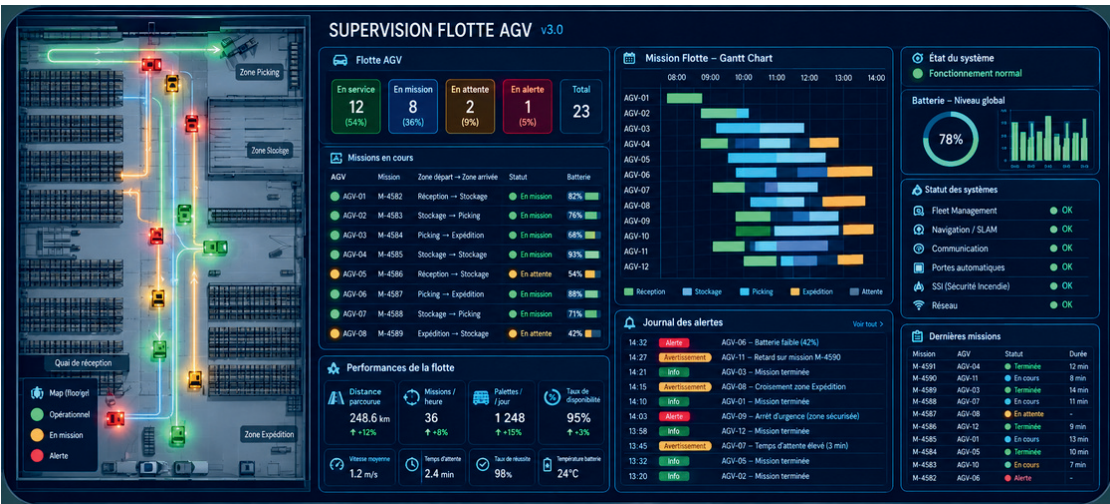
TECASER integrates automation solutions with your existing equipment, infrastructure and software systems.

ERP / WMS / MES
Integration

Automatic Doors & Fire
Safety Systems

Order transmission, data exchange, operational status updates and synchronization of logistics flows.

Management of system interfaces, door opening and closing commands, and coordination with site safety requirements.



Integration Architecture:

ERP / WMS / MES (Customer Systems) → TECASER INTERFACE (Secure Gateway)
→ FLEET MANAGEMENT SYSTEM → AGVs / AUTOMATIC DOORS / FIRE SAFETY SYSTEMS

Integrated Processes

AGVs as an Integral Part of Your Logistics Operations

AGVs do not replace existing logistics processes; they automate material movements within them.

Storage

Automated put-away operations, inter-zone transfers and transport to subsequent processing areas.

Picking

Workstation replenishment, transfers between operational stages and movement of prepared orders toward shipping areas.

Outbound

Automated transport of completed orders to designated shipping zones.



Supervision & Traceability

Complete Visibility Across Every Mission

Real-time monitoring of fleet operations and comprehensive traceability of pallet movements.

Fleet & Mission Status

Continuous monitoring of AGV availability, active missions, charging status, waiting times and fault conditions.
Visibility into ongoing and completed transport missions.

Traceability & Alerts

Tracking of pallet identification, origins, destinations and movement status, with alerts for operational anomalies.

INFORMATION PROCESSING CYCLE



01

DATA COLLECTION

Collection of real-time operational data.



02

SUPERVISION

Monitoring and analysis of fleet operations.



03

INFORMATION PROCESSING

Data analysis and generation of relevant information.



04

ACTION

Decision-making and operational actions.

Project Methodology

Your Automation Project with TECASER

A structured approach from initial flow analysis to operational commissioning.

01 ANALYZE

Assess flows, volumes, distances, frequencies and constraints.

02 MODEL

Define transport missions, routes, operating zones and pickup and drop-off points.

03 AUTOMATE

Deploy forklift AGVs, autonomous navigation technologies and fleet management solutions.

04 INTEGRATE

Connect automation systems with ERP, WMS, MES, fire safety infrastructure and automatic doors.

05 MONITOR

Supervise fleet activity, monitor mission status and ensure traceability of material movements.



INBOUND → TRANSPORT → STORAGE → PICKING → OUTBOUND

Smart Intralogistics with TECASER



TECASER helps companies optimize their intralogistics operations through automation solutions tailored to their specific environments and operational requirements.

From Flow Analysis to Automated Operations

From AGV-based pallet transport and fleet management to systems integration and operational supervision, TECASER connects equipment, software and processes to streamline material movements, improve traceability and enhance overall operational efficiency.



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