

Rocla Automated Solutions

Inquiry Form for AGV system



Contact Information

Company	Contact Person
Street	Function
Zip code, city	Telephone
Country	Mobile
Industry	Fax
Project	E-mail

Background

- Short description about current logistic solution and situation:

- What are the disadvantages of the current situation?

- What are the objectives of investing in AGV system?

- What are the special factors/features in the process, if any, which must be taken into consideration?

- What is budget for investment?

General Information

Nature of the AGV

Indoors Outdoors

Remarks

AGV System Areas

Where does the AGV operate (short description)?

If possible, attach a factory layout in .dwg (preferred) or .pdf.

AGV Operating Hours

Hours / day

Uninterrupted 24/7 operations 365 days/year

Days / week

Annual operating time days per year

Weeks / year

Factory vacation from to

Special Regulations

If yes, please indicate below or attach to this checklist

- Safety Factory standards Equipment and facilities
 Maintenance Components and Controllers
 Miscellaneous

Environmental Conditions

Ambient temperature from °C to °C

Relative humidity from % to %

Dirt (splinters, dust...)

Corrosive materials (gas, fluid...)

Remarks

Floor quality

- Concrete floor Epoxy coated Something else, please specify

Floor condition and possible remarks?

Please describe

Process control

Controlling of AGV transportation tasks and destinations

- Warehouse Management System (WMS) offered by Rocla
 WMS system offered by Rocla with connection to customer ERP

Specify name and version of ERP (i.e. SAP R3):

Specify interface type (i.e. tcp/ip, xml...):

- From customer WMS / ERP system. Specify name and version (i.e. SAP R3):
 Manually specified destination with call buttons or operating terminals
 Something else (i.e. PLC, sensors), please specify:

Functional Description

Information flow from IT perspective? Please add short description:

Special requirements for the IT-infrastructure

IT-hardware supplied by customer Yes (preferred) No

WLAN-hardware supplied by customer Yes (preferred) No

Power backup (UPS device) Yes No

Other requirements: Please specify

Transport units and load transfer

Goods transported

What are the goods to be transported? Please specify

Fill in all different load types in the table below (i.e. pallet types used, container, paper roll etc.)

In case of special load type, please attach photo or drawing if possible.

Load type	Length (mm)/ diameter (min/max)	Width (mm)	Height (mm)	Weight kg (min/max)	Material

Center of gravity in geometric centre?

- Yes No Other Please specify

Overhang?

- No Yes Please specify in mm and what load type(s) concerning

AGV loading and unloading procedure

Automatically Manually Both

If manually, please describe procedure:

Load handling position specifications

Floor

Deep stacking

Load-on-Load

Stand Top edge of stand mm

Conveyor Top edge of conveyor mm

Racks Lowest shelf mm

Highest shelf mm

No. of storage places pcs

Aisle width(s) - mm

Height of each storage place mm

Specify used rack type(s):

Racking	<input type="checkbox"/>
Drive-in (deep storage) racking	<input type="checkbox"/>
Gravity flow racking	<input type="checkbox"/>
Push-back racking	<input type="checkbox"/>
Very Narrow Aisle racking	<input type="checkbox"/>
Pallet shuttle racking	<input type="checkbox"/>
Other, Please specify	<input type="checkbox"/>

Other Please specify

AGV Layout

Please, attach a factory layout preferably in .dwg or .dxf.

- Mixed traffic with forklift trucks No Yes
- Movements through doors No Yes
- Fire doors No Yes
- Elevators No Yes
- Manhole covers on vehicle path No Yes
- Gradients to climb: No Yes

Uphill gradient H = mm L = mm Max. gradient %

- Minimum roof clearance on AGV travel paths (doors included if any) H = mm
- Roof clearance in warehouse (excluding doors) H = mm

Navigation method requested

Laser navigation Magnetic spot Inductive wire guidance

Energy concept requested

- Automatic battery charging
 Automatic battery change
 Manual battery change

Transport Capacity

Number of vehicles requested

If known, please specify quantity pieces

If number of the vehicles specified, what method is used for calculation?

- Dynamic simulation
 Static Calculation
 Current situation
 Something else,

Material flow and traffic simulation requested from Rocla (to be quoted separately)?

- Yes
 No

Transport Matrix / Number of load units per hour

Specify pick-up points to 'From' column on left and drop-off points to 'To' column on top.
 Specify number of units per hour in crossing columns between pick-up and drop-off points defined in the matrix.

To From	Ex. Warehouse rack A								
Ex. Production line 1	units/ h								

The indicated numbers are

- Peak values
 Average values → the peak values can be % higher

If some remarks or additional information about material flow or load handling to be considered, please describe here

Customer / Site Dependent Conditions

Installation / commissioning during production

Yes No

Other customer / site dependent conditions

Yes No

If yes, please specify

Requested time schedule for AGV system implementation

Submission of tenders

Investment decision

Order to be placed

Commissioning



Please, submit this inquiry form filled as well as possible as an e-mail attachment to the sender whom you received this form or to agv@rocla.com stating the receivers name and case name in the topic. Thank you for your time.