

Questionnaire

AGV | FTS | Transfer car | Shuttle



Company Information

Company name: _____
Main business area: _____
Designing/Installing/Using AGVs? _____
Number of AGVs per project: _____
Potential no. of projects per year: _____
Main contact (name, function): _____
Main contact phone/e-mail: _____

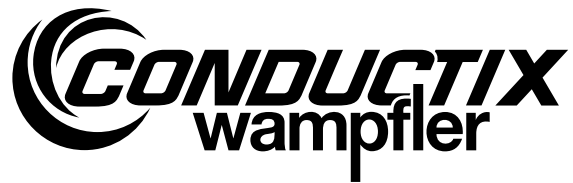
Application – Functional Description

Tasks performed by AGVs: _____
Do AGVs lift items? How high? _____
24/7/365 ops? Idle time ratio? _____
AGV size/weight/payload/speed: _____
AGV area approximate size: _____
Where do the AGVs operate? in a restricted area among qualified operators among the public
Type of design? new AGV design existing AGV full redesign AGV optimization
AGV region of use: Europe/Middle East/Africa Asia: _____ Americas

Application – Sketch, Details, Attachments, References

Remote Controls and Safety

AGV movements:	free in all directions	specified path(s)	2D or 3D structure
AGV navigation method:	AGV sees obstacles	QR codes	_____
AGV management:	autonomous (AMR)	predictable moves (AGV)	_____
AGV main communication system:	site standard Wi-Fi	Scalance	_____
AGV onboard controller:	safe PLC	non-safe PLC	_____
Manual remote controls:	never needed	often needed (MGV)	for maintenance
Global fleet E-stop:	not at all interested	interested about it	some day maybe



General Specification

Electrical voltage at site: _____
 AGV system voltage (min/max): _____
 AGV current or power – nominal use: _____
 AGV current or power – peak/time: _____
 Expected AGV autonomy duration? _____ without any recharge _____ with opportunity charging
 Expected AGV charging time? _____ for a full recharge _____ for opportunity charging
 Environmental conditions: _____ °C (min/max temp.) _____ % (humidity) outdoor
Please quote now for: Battery Charging solution Charging contacts Safety radio solution
Possible future interest for: Battery Charging solution Charging contacts Safety radio solution

Energy Storage Solution Description

Battery capacity expectation (Ah): _____
 Installation space (L x H x W): _____
 Battery life expectation: Years: _____ Number of cycles: _____ Discharge: _____ %
 Battery technology: Li-Ion NMC Lead acid _____
 Battery can be split in parts: Yes No Must be split in parts _____
 Battery BMS communication: CANopen CAN 2.0B _____
 Long stand-by periods of time: Individual sleep mode Fleet global sleep mode Not specified
 Battery specific features: Two circuits: IN & OUT Remote ON/OFF Button Start protection
Most critical constraint criteria: _____
Competition experience/reference: _____

Charging Solution Description

Technology: Inductive Conductive Not firmly chosen
 Mobility while charging: Stationary charging On-the-move charging Both possible
 Power Transfer (PT) components: Pads IPT (mobile) Charging contacts Conductor rails
 PT components mounting: Horizontal (ground) Horizontal (not on ground) Vertical (side-mount)
 PT components space constraints: _____
 Conductive contacts options: Only power contacts 2 pilot/CAN contacts _____
 Charger installation: 1 charger/1 AGV 1 charger/4 AGVs _____
 Charging procedure: As per BMS request At a preset charge curve _____
 Charging cycle: Full cycle mostly Opportunity charging mostly _____
Most critical constraint criteria: _____
Competition experience/reference: _____

Date: _____ **Filled by:** _____