



Checklist for Automatic Guided Vehicle (AGV) Systems

Com	pany:				
Stree	et:				
Post	code/town:	County/state:	_		
Depa	artment:	Responsibility of:	_		
Telej	phone: Fax:	Email:	_		
1.	General information				
	In which branch / industrial sector is the				
Desc	eription:		_		
			_		
1.2.	In what areas is the AGV to be used?				
0	Stores				
O	o Automated high-bay store (HBS)				
	o Racking store				
	o Block store				
0	Manufacturing				
0	Material supply and disposal for machine tools o Direct o Indirect				
0	Material supply and disposal for processing I	points			
0	Material supply and disposal for preparation o Individual preparation points o	•			
0	Assembly	ombly points			
	o Material supply and disposal for fixed assoo Movable assembly (vehicle as an assembly	• •			
0	Goods receipt				
O	Goods despatch				
0	Miscellaneous areas Please specify				



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- o Indoor areas only
- o Indoor and Outdoor areas
- o Outdoor areas only

Wor	king days from	to	Sunday from _	to	
Satu	rday from	to	Public holidays	from to	
1.4.	Are there any spe				ır company ?
O	Safety	0	Factory standa		
О	Resources	О	Computers an		
O	Maintenance	0	If yes, please	specify or append	to this checklist
1.5.	Are there any par	ticular environm	ental condition	ns to be taken int	to account?
O	Temperatures	from°C	to°C		
О	Relative humidity	from%	to%		
О	Dirt (chi	ppings, dust)			
О	Corrosive materials	(gases, fluids.)		
О	Clean room	Specify area			
O	Water spray				
2.	Material flow an	d handling			
		_			
2.1.	What will be trans				
Plea	se specify the goods to	be transported			
2.2.	What transport u	nits will make up	the goods to I	be transported ?	
Tran	sport unit	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
0	Pallets				
	o Wood				
	o Metal				
	o Plastic				
o	Wire sided stillages				



o Transfer device

o Lift

o Other

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®TM Registered trade mark of PMH Height (mm) Length (mm) Width (mm) Weight (kg) Transport unit Containers o Wood o Metal o Plastic Individual parts o Special cargo o Must an allowance be made for the parts being transported projecting over the transport unit? Max. projection on all sides o mm Max. projection in the o _____ mm Loading from one side o Please specify position of center of gravity:_____ 2.3. How will the transport units be presented for removal? Manually o o On the floor o Steel stillages OK stillage _____ mm ____ mm o Other Automatically \mathbf{o} o On the floor o Steel stillages OK stillage _____ mm o Chain conveyor OK chain _____ mm o Roller track OK roller _____ mm o Belt OK belt

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	o Stores	equipment			
	o Racks	bottom layer	mm	no. of storage holes	
		top layer	mm	aisle width	mm
		hole height	mm	main truss lower edge	mm
2.4.	How many	transport movement	s are to be ca	rried out per hour ?	
Please	supply the n	umber of transport mo	vements in the	attached transport matrix	
2.5.	Layout				
		e checklist a layout draw e following details can		format when available) on	a scale of 1 : 100 or 1
	Traffic of other sorts (in ex. forklifttrucks, people,				
	Travel patl	hs along which the AG	V is to move		
	Transfer p	ositions for load accep	tance / deposit		
	Door pass	ages (automatic doors,	, sliding doors)		
	Fire doors				
	Lifts dime	nsions, number of floo	rs, lift type)		
	Factory eq	uipment			
	Expansion	joints (please specify	design)		
	Cable duc	ts in the floor on the tra	avel paths		
	Shaft cove	ers on the travel paths			
		utes			
	_	up max%	dow	n max%	
	=	•			
	-	eiling height in AGV p	arcour		

Battery changing / charging area

Maintenance positions (station) for the AGV when idle





	What is the nature of the	travel path surface	e finish ?
	Indoor area o Concrete floor o Plastic sealant o Other, please specify	o Industrial surfac o Linoleum	o Wood o Tiles
	Outdoor area o Concrete floor o Other, please specify	o Asphalt	o Stelcon tiles
•	Do you already have a ve	hicle power conce	pt in mind ?
	Automatic battery charging		
	Manual battery change		
	Do you already have an i	dea about the num	ber of AGVs ?
as	inductiv	o free rang	owing navigation principles? ge
	Transport organisation	1	
	How will the AGV be info	rmed of its destina	tion ?
	Call buttons at the halt positions and destinations issued manually on the vehicle		
	Buttons at the halt positions for calling the vehicle, with destinations issued automatically		
	Operator terminals at the halt positions		
	Automatically, by 'busy' indicators		
	From a higher level compute	er (HOST) to the AG	V's central controller. Info to HOST:
	Maker:T	ype:	Operating system:
	Interface:	Pro	otocol:





	HOST functions:						
3.2.	Describe briefly the required sequence of transport activities and the handling of the load units at the destination stations						
Apar conte	t from the sequence of transport activities, describe also the exchanges of information and their ents.						
Pleas	se append this description to the checklist:						
3.3.	Do you have particular requirements which the AGV's controller must meet?						
о Ор	perating system?						
o Ba	ckup needed? o cold o warm o hot						
o Vis	sualisation of AGV system?						
Furtl	Further requirements:						
3.4. o Y	Are there interfaces to other subsystems / controllers ? es o No						
If ye	s, what are they?						
4.	Conditions on the construction site						
4.1.	When can the installation of the AGV system be undertaken?						
О	During the day fromo`clock to o`clock						
О	At night from o`clock to o`clock						
О	At weekends from o`clock to o`clock						
0	Installation and commissioning during production? o yes o no						





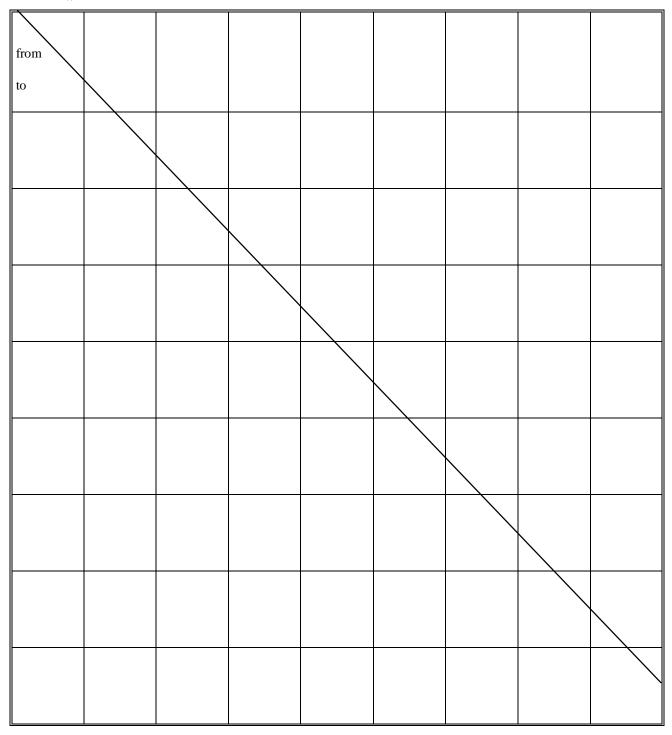
4.2.	Are there particular regulations installation and commissioning	or measures which must be taken into account in the of the AGV system?
o Ye	es o No	
If yes.	what are they?	
4.3.	Are there other construction sit	e conditions which must be taken into account ?
o Ye		
	s, what are they?	
4.4.	By when is the AGV system to b	pe implemented ?
Purch	nase order	
Delive	ery:	
Install	llation:	
Comn	missioning:	
Ready	y to operate:	
4.5.	Will you (customer) be providin	g any of the services ?
o Ye		
If yes,	, what are they ?	
Date:	<u> </u>	Name:



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Transport matrix

No. of "load unit" movements / hour



The above figures are

o peak values? o average values ===> peak values to be considered _____% higher