

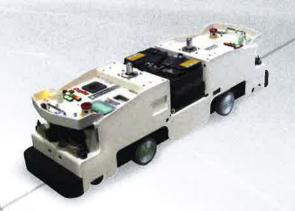


Technology makes future



Automatic Guided Vehicle

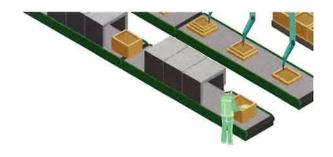
AGV





Techno System Aichikikai techno system co.,ltd.







will solve problems in industrial field!

want to process more efficiently!

want to reduce the investment!

want to improve productivity further!

want to save workforce more!

want to save time for re-layout!

We propose a system that can solve customers' troubles with a variety of variations tailored to the needs of production lines from easily introduced trolley types to high-function types, for various problems and tasks born in the production process.

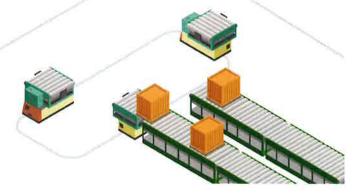
Rely on Aichikikai Techno System!



CarryBee brings various benefits in various scenes. We can realize rationalization of production process.

Carry Bee is an unmanned carrier developed with our own long cultivated know-how in the automobile production as a group company of Aichi Machine Industry Co., Ltd. with over 100-year history. It can rationalize manufacturing processes in various scenes such as conveyance between processes, parts supply to production lines and cellular manufacturing lines(assembly on AGV).



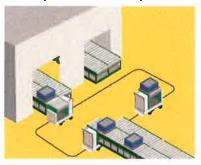






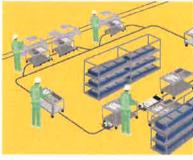
Realize rationalization of production process and bring variety of merits in various fields!

Conveyance between proceses



Conveyorless promotes effective use of space. Free layout with magnetic tape

Parts supply to production lines Cellular manufacturing line



Transport periodically / correct amount / fixed position with supply by AGV



Converless allows operation from all directions

Easy to make routes and change the layout!

Can be flexibly changed the process by putting magnetic tape on the floor. Also changeable it in a short period by easy construction.

Reliable with abundant experience and know-how!

Implement optimum system construction and maintenance with abundant achievements and know-how that we have introduced numerous worldwide.

Rich products lineup

Various products and options are available to a wide variety of production lines.

Customize AGV according to the site

We propose the optimum AGV system for each site and demand.

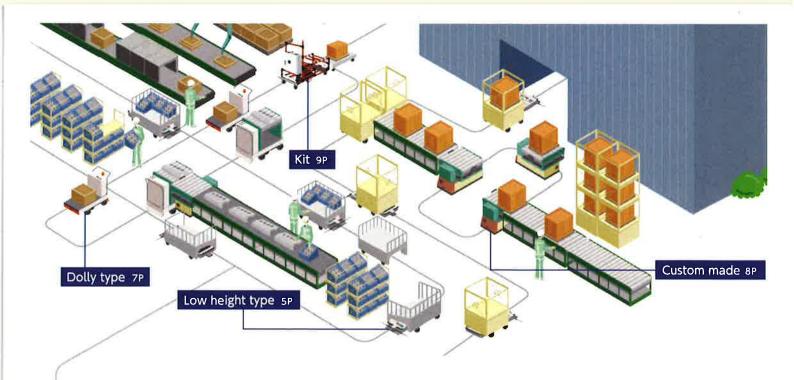
Build a highly expandable system with many options.

Protect the luggage with smooth running!

Carry Bee (AGV) runs smoothly to convey loads. The high quality of our AGV providing straight running and cornering is very popular with a wide variety of customers in many industries.

AGV TECHNOLOGY A



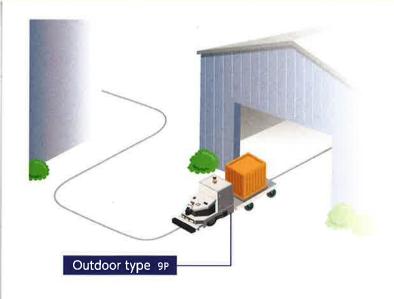


[Our Slogan] Everything for the customer

Carry Bee (AGV) runs smoothly to convey loads. The high quality of our AGV providing straight running and cornering is very popular with a wide variety of customers in many industries.

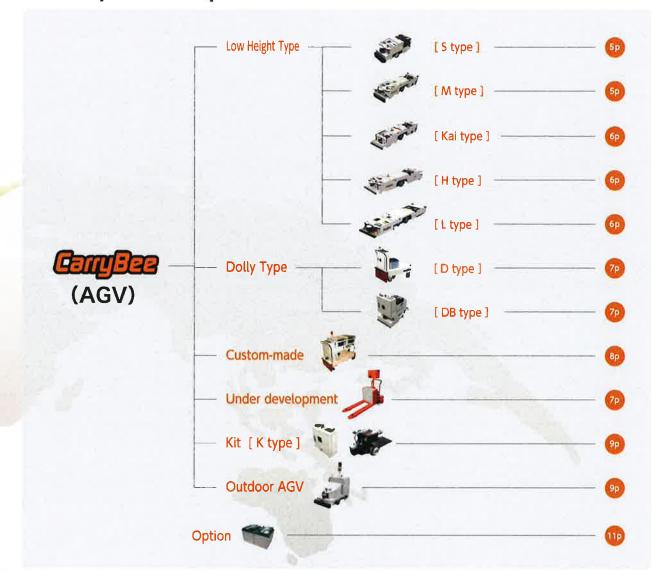






Wide variations to meet various needs of production lines

Line-up of our products



AGV TECHNOLOGY 24



Low Height Type [Stype · Mtype]

Sliding under the cart, towing, automatic connecting and detaching are possible.

Short-type [Stype]



This lower type is very useful under the cart with automatic pin hook. Connect to or detach from the cart automatically.

Automatic connection with cart



Slide under the cart

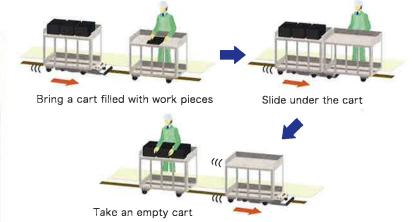
Connect by Automatic pin hook

Start pulling

Mid-sized type [Mtype]



Move from one cart to another



As close as line side

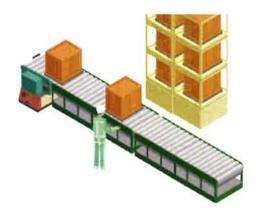


Running direction can be chosen





[Htype · Ltype]



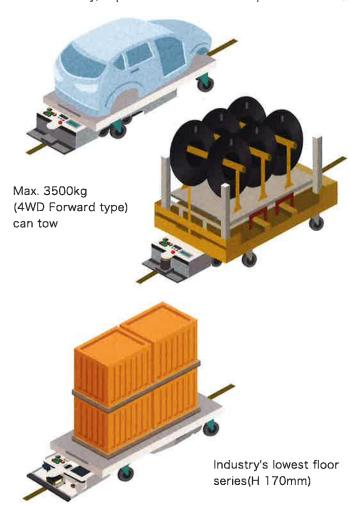
Heavy Duty type [Htype]



Super Low type [Ltype]



We provide heavy loads type and the lowest height type in the industry, respond to various uses of production line.



改"Kai"





Dolly Type [Dtype]

Easy to introduce

Can tow your own cart, bring cargo by putting on the deck

Towing Type





Tow your own cart

DB type



Loading Type







Under Development

New type of AGV are coming out from the laboratory

CarryBee series that brings various benefits in various scenes. You can realize further rationalization of production process with brandnew AGV.

Worker following type

For picking! For delivery!

Since follow the registered worker without transmitter you will Work efficiently while moving.



Obstacles are also automatically avoided with sensors!





Custom made [Customize]

We are also preparing special type according to customer's needs.

Tell us your request such as automatic work transfer, special car body etc. (custom made).



With chain conveyer

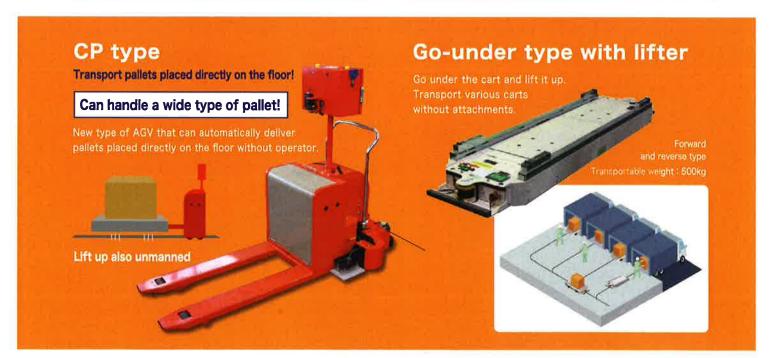


With drive conveyer



With a lifter







Kit [Ktype]

Using the basic unit of the control box and the drive unit, you can also convert your dolly or a body to AGV. Easily assembled by anyone! Customized freely at low cost!





Samples









There are variations in the kit type.



Best for the transportation between buildings

Outdoor AGV

Outdoor AGV that can turn around in a small area.

Same usability as conventional AGV.

Wide range of running zones among buildings to in a plant.

Forward 4WD

Transportable weight : \sim 3000kg



Running of AGV

There are variations in the kit type, programmable, non-programmable, various transportable weight etc.

Guidance method

Optical or magnetic method is available.

Both methods are easy to set a new route or change the existing route.

Magnetic type

Magnetic tape is fixed to the floor. Resistant to dirt on the running surface. Burial type is provided.

Optical type (Option)

Aluminum tape is fixed to the floor.

Optical & magnetic type is available.



For clean room

Can be selected class 100(ISO class5) for clean room use.
(DC brushless direct drive type)



Method of setting program

Programmable

High function type that can memorize 200 routes and has abundant operation modes.

Count up

Method to switch operations by counting the number of spot marker that is applied near the magnetic tapes,

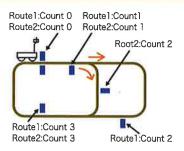
Absolute address

This type has address markers with an unique numerical value, and operate with the value of marker while checking its step. There is also a buried type tilis chip (RFID type), [option]

Programming tool

Make programs by PC, then send to AGV. Useful when you have many AGVs.

Count-up type



*Combination mode(e.g. Multi-action e.g. Right turn + Low speed) is available *200 programs, 200 steps*Display of warning and abnormal condition



Touch panel



We provide buried type magnetic cable and spot marker.Can be coated magnetic tape and spot marker with plastic.







Programming tool

No Programmable

Simple type, low cost by simple use such as only start / stop.

Tape cut (Gap reading)

AGV stops at where magnetic tape is cut out about 50mm.

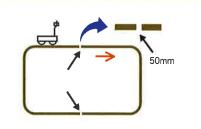
Marker Pattern

Method of switch operations by reading the pattern of spot marker that is applied near the magnetic tapes. Stop, speed change and other operations are available.

Spot marker stop

AGV stops at where spot markers are fixed.

Tape-cut(Gap reading) type



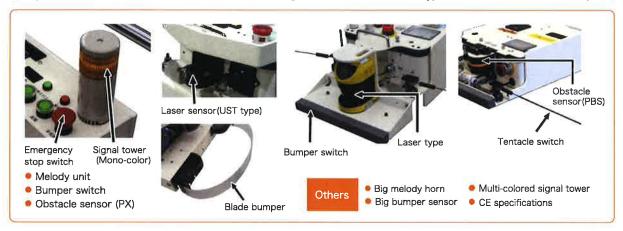


Option

In order to deal with a variety of production lines when introducing AGV We are providing various options.

Safety equipment Multiple safety functions protect the workers.

- Standard model has obstacle sensor, emergency stop switch, alarm in abnormality etc.
- Signal tower/turning light, melody unit, bumper switch can be added as an option.
- High functional "obstacle sensor with variable detecting area" and "laser scanner type sensor" are available as an option.

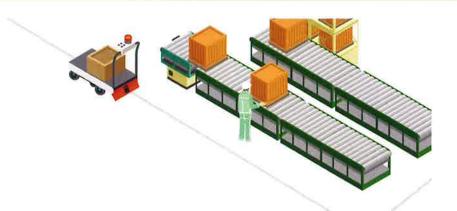


To avoid troubles between AGVs, we provide wireless devices and optical com. device that Wireless Device can set orders for AGV. Depending on the line condition, we provide various selections.



Towing device We provide a variety type of hooks, including manual type,



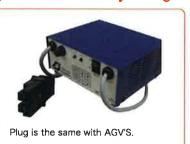


No-Contact charger

No battery exchange by using auto-charger.



★ Manual Battery charger

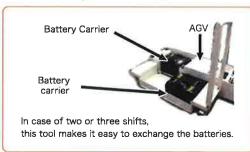






You can select a proper capacity for Lead battery according to operation hours, Lithium ion battery and Lithium ion capacitor are only used with auto-charging system. A feature of them is shorter charging time and longer life than Lead battery. For details, please contact us,

★ Battery exchange cart



Other options & Accessories

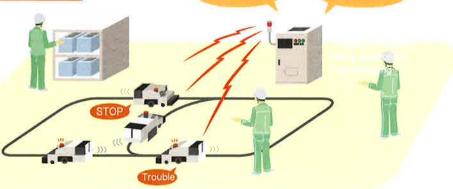
- Magnetic cable (20m)
- Magnetic stick
- Magnetic tape 25m/roll
- Spot Marker
- Protection tape 30m/roll, 20m/roll
- Address Marker (for absolute address)
- Tiris chip (RFID)

- Urethane Wheel(Drive wheel and Follower wheel)
- Motor Brake
- Battery tray
- Battery Carrier

Car E is stopping

Integrated control (Quote separately)

Control each AGV with wireless com.



Trouble in Car B

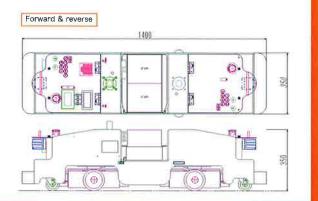
Specification (Standard mode) Contact us when over said spec. is necessary O:Standard **:Option -:Not available

Type Specification			Low Height Type												
			Short	t-type	Mid-siz	Heavy Duty type					Super Low type		Super Slow Speed type	Outdoor	
		St							KaiⅡ	type	Lt	уре	LW type		
Control	Reading scheme		0												
Control				spot marker count spot marker									spot marker count	spot marker count %Tiris	
Guidance method								0/%/%				*		0/-/-	0/-/-
Drive Method	2WD/4WD		2WD/4WD	4WD	2WD/4WD	4WD	2WD/4WD	4WD	2WD	2WD	4WD	2WD/4WD	4WD	2WD	4WD
Running direction	Forward Fo	rward & Reverse	Forward	Forward & Reverse	Forward	Forward & Reverse	Forward	Forward & Reverse	Forward	Forward	Forward & Reverse	Forward	Forward & Reverse	Forward	Forward
	Maximum transportation	2WD	300kg	- :	500kg (750/1000)	_	750kg (1000/2000)		500kg	500kg (750/1000)	-	500kg (750/1000)		~750kg	-
Performance	weight [Ref.5][Ref.6]	4WD	600kg	600kg	750kg (1000/1500)	750kg (1000/1500)	1500kg (2500/3500)	1500kg	-	100	750kg (1000/1500)		750kg (1000/1500)		~3000kg
			191N/20kgf 382N/39knf	382N/39kc	0.000.000		478N/49kgf 956N/98kgf	_	f 255N/26kgf	319N/33kgf 478N/49kgf	478N/49kgf	21.001/0201-4	478N/49kgf	~478N/49kg	1431N
	Traction force (N/kgf)		1-1-11-11-1	, .			-			10000					/140kgi
	Minimum turning radius (AGV alone)		R350mm R600mm R500mm R1000mm R800mm R800mm R500mm R500mm R500mm R1000mm R1000mm R1200mm R700mm										R700mm	R700mm	
	hill Climbing ability (At full load)							1 de							~5 degrees
	Continuous Operating hours (At full load)			_				8Hr[F	_		- 011			_	Talk separately
	Stopping accuracy(AGV alone) [Ref.2]		Approx 3	50m/min		5mm(※:±10mm(Opt.)) 40/50m/min Minimum speed:4m/min~			±30mm ±15mm(%:			1	ot.)) 50m/min	±5mm	±15mm
	Driving speed [Ref,3]		Minimum spe	eed:4m/min					Approx. 40m/min		40/50m/min	Minimum spi	ed 4re/min~	0.1~50m/mid	Name of the Party
	L[Ref.8]		840	1400	1270	1972	1670	2660	1270	1270	1972	1599	2640	1445	1545
Dimension (L x W x H)	W		350	350	350(320)	350(320)	480	480	350	350	350	350	350	450	732
	Н		350	350	272	272	290	290	272	272	272	170	170	170	1445
Function	Approx, weight (kg)		80kg	120kg	90kg	150kg	150kg	250kg	80kg	90kg	150kg	100kg	180kg	100kg	400kg
	Program setting method							Tou	ich panel ,	/ ※PC					
	Drive wheel free structure in manual operation								0						7.
	Setting speeds								10 speed	ls					
	Motor brake	e (on motor axis)				_			*					-	0
	Drive motor [Ref.4]	DC with brush, chain drive		_	-		-	-	0		-		2:	-:	-
		DC brushless, chain drive		-)	-	-) E	-			Ctopping	-
		DC brushless, direct drive)	*	*	C)				O		Stepping motor	
Battery (Option)	Voltage		24V											48V	
	Option) Capacity		24AH(38AH) 25~50AH 65AH(100AH) 25~50AH 24AH												
(Option)	С	apacity	24AH(3	38AH)	25~!	50AH	65AH(1	00AH)	2	5~50A⊦	1		24AH		150AH
(Option)	С		24AH(3	38AH)	25~!	50AH							24AH		150AH
		Type	24AH(3	38AH)					7 Type						
	fication	Type				Fowing Ty	rpe	Dolly	/ Тур	е	L	oading Ty	/pe		DB Type
	fication Programmable	Type e(Count up)[Ref.1]				Fowing Ty	r pe)/No progr	Dolly	Typ	e Marker's	L pattern re		/pe	ectable	DB Type
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Specification Control Guidance method Drive Method Running direction	Fication Programmable Readin Magnetic/Optics 2Wi Forward / For Maximum trans, Traction Minimum turnin hill Climbing a Continuous Opera Stopping accura	Type a(Count up)[Ref.1] Ing scheme al/Magnetic & Optical D / 4WD Drward & Reverse portation weight 2WD force[N/kgf] Ig radius (AGV alone) ability (At full load) ating hours (At full load) acy(AGV alone) [Ref.2] speed [Ref.3]]	2WD 400kg 255N/26 550mi	g g gkgf 31	2WD 500kg 9N/33kgf 550mm ble and Mark	Fowing Ty s/Count up spot 2WD Forwar 750kg 478N/49l 550mm	marker of the state of the stat	ammable(0 count %A co	/ Type / Type / Type / Sap-reading,	Marker's 2WE 44 3gf 55 4te and be	pattern re is 0%4WD Forward 00kg Gomm attery siz	2WD%4V 2 Forward 500kg 700mm	VD 2WD 8 Revers 100 1 100 x, 27m/min	×4WD se 50kg − D0mm	DB Type Spot marker count X X X X X X X X X X X X X X X X X X X
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Specification Control Guidance metiod Drive Method Running direction Performance Dirmension (L x W x H)	Fication Programmable Readin Magnetic/Optic: 2WI Forward / Fo Maximum trans; Traction Minimum turnin hill Climbing a Continuous Opera Stopping accura Driving s L Approx. Program s	Type e(Count up)[Ref.1] ng scheme al/Magnetic & Optical D / 4WD orward & Reverse portation weight 2WD force[N/k g f] g radius (AGV alone) ability (At full load) ating hours (At full load) cy(AGV alone) [Ref.2] speed [Ref.3]] (Ref.8] W H weight (kg) settling method	2WD 400kg 255N/26 550rni	nable(Abs	2WD 500kg 9N/33kgf 650mm 95 6	Fowing Ty s/Count up spot 2WD Forwar 750kg 478N/49l 550mm	marker of the state of the stat	Dolly ammable(Count %A COUNT WA COUNT W	/ Type Sap-reading, bsolute ad /**/* 2WD 1500kg 956N/98k 1000mm 1 degree perating ra 10mm(Opt min, Gap-re (1110) (775) (1080) 250kg h panel /	Amarker's dress-Tiring 2WC 44 45 45 45 45 45 45 45 45 45 45 45 45	pattern re is Dix 4WD Forward OOkg Gomm attery siz Marker rea 106 61 41 (Deck	2WD%4V / Forward 500kg 700mm e) ding: Appro 65~ 00 H: min 325	/pe type is sel VD 2WD 8 Revers 75 1 100 x, 27m/min (1) (1) (1)	**4WD see 50kg 00mm 110) 7775) 080)	DB Type spot marker count /**/** 2WD Forward /Short reverse 500kg 319N/33kgf 1000mm #15mm **:10mm(0pt) /*Approx.50m/min kinum great 4 mm* 833 430 693
Specification Control Guidance metiod Drive Method Running direction Performance Dirmension (L x W x H)	Fication Programmable Readin Magnetic/Optics 2WI Forward / For Maximum trans Traction Minimum turnin hill Climbing a Continuous Opera Stopping accura Driving s Li Approx Program s Drive wheel free street	Type e(Count up)[Ref.1] ng scheme al/Magnetic & Optical D / 4WD broward & Reverse portation weight 2WD force[N/k g f] gradius (AGV alone) ability (At full load) ating hours (At full load) cy(AGV alone) [Ref.2] speed [Ref.3]] (Ref.8] W H weight (kg) setting method ucture in manual operation	2WD 400kg 255N/26 550rni	nable(Abs	2WD 500kg 9N/33kgf 550mm 95 6	Fowing Ty s/Count up spot 2WD Forwar 750kg 478N/49l 550mm ker's pattern 4~ 00 41 145kg	marker of the state of the stat	Dolly ammable(Count %A COUNT WA COUNT W	/ Type Sap-reading, bsolute ad /*/* 2WD 1500kg 956N/98k 1000mm 1 degree berating ra 10mm(Opt imin, Gap-re (1110) (775) (1080) 250kg h panel /	Marker's dress Tiril 2WC 44 45 55 55 55 55 55 55 55 55 55 55 55	pattern re is 0%4WD Forward 00kg Gomm attery siz Marker rea 100 641 (Deck 03kg	2WD%4V / Forward 500kg 700mm e) ding: Appro 65~ 00 H: min 325	/pe type is sel VD 2WD 8 Revers 75 1 100 x, 27m/min (1) (1) (1)	**4WD see 50kg 00mm 110) 7775) 080)	DB Type Spot marker count X X X X X X X X X X X X X X X X X X X
Specification Control Guidance method Drive Method Running direction Performance Dimension (L x W x H)	Fication Programmable Readin Magnetic/Optics 2WI Forward / For Maximum trans Traction Minimum turnin hill Climbing a Continuous Opera Stopping accura Driving s Li Approx Program s Drive wheel free street	Type e(Count up)[Ref.1] ng scheme al/Magnetic & Optical D / 4WD orward & Reverse portation weight 2WD force[N/k g f] g radius (AGV alone) ability (At full load) ating hours (At full load) cy(AGV alone) [Ref.2] speed [Ref.3]] (Ref.8] W H weight (kg) settling method	2WD 400kg 255N/26 550rni	nable(Abs	2WD 500kg 9N/33kgf 550mm 95 6	Fowing Ty s/Count up spot 2WD Forwar 750kg 478N/49I 550mm	marker of the state of the stat	Dolly ammable(Count %A COUNT WA COUNT W	/ Type Sap-reading, bsolute ad /**/* 2WD 1500kg 956N/98k 1000mm 1 degree perating ra 10mm(Opt min, Gap-re (1110) (775) (1080) 250kg h panel /	Marker's dress Tiril 2WC 44 45 55 55 55 55 55 55 55 55 55 55 55	pattern re is 0%4WD Forward 00kg Gomm attery siz Marker rea 100 641 (Deck 03kg	2WD%4V / Forward 500kg 700mm e) ding: Appro 65~ 00 H: min 325	/pe type is sel VD 2WD 8 Revers 75 1 100 x, 27m/min (1) (1) (1)	**4WD see 50kg 00mm 110) 7775) 080)	DB Type spot marker count /**/** 2WD Forward /Short reverse 500kg 319N/33kgf 1000mm **15mm (%):+10mm(Opt.)) ~Approx.50m/min Winum speed: 4mm c 833 430 693
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Specification Control Guidance method Drive Method Running direction Performance Dimension (L x W x H)	Fication Programmable Readin Magnetic/Optics 2WI Forward / Formard / Formar	Type e(Count up)[Ref.1] ng scheme al/Magnetic & Optical D / 4WD proward & Reverse portation weight 2WD force[N/k g f] g radius (AGV alone) ability (At full load) ating hours (At full load) cy(AGV alone) [Ref.2] peed [Ref.3]] (Ref.8] W H weight (kg) setting method acture in manual operation speeds[Ref.3] e (on motor axis)	Programm 2WD 400kg 255N/26 550ma	nable(Abs	2WD 500kg 9N/33kgf 550mm ble and Mari 95 6 9 105kg	Fowing Ty s/Count up spot 2WD Forwar 750kg 478N/49t 550mm 4~ 000 41 145kg	marker of the state of the stat	ammable(Geount &A CewD Ookg 1/65kgf Omm end on op mm(%:± ppox.40m/ Okg Touce Cepplied for **	/ Type Sap-reading, sbsolute ad /*/* 2WD 1500kg 956N/98k 1000mm 1 degree cerating ra 10mm(Opt imin, Gap-rea (1110) (775) (1080) 250kg h panel /	Marker's dress Tiril 2WC 44 45 55 55 55 55 55 55 55 55 55 55 55	pattern re is >>>>= 4WD Forward 00kg - 60mm attery siz 100 61 41(Deck 03kg	2WD%4V / Forward 500kg 700mm e) ding: Appro 655~ 00 H: min 325 133kg	/pe type is sel VD 2WD 8 Revers 75 1 100 x, 27m/min (1) (1) (1)	#4WD see 50kg - 20mm 110) 775) 080) 50kg	DB Type Spot marker count X X X X X X X X X X X X X X X X X X X
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Specification Control Guidance method Drive Method Running direction Performance Dimension (L x W x H)	Fication Programmable Readin Magnetic/Optics 2WI Forward / Fc Maximum transp Traction Minimum turnin hill Climbing a Continuous Opera Stopping accura Driving s Li Approx Program s Drive wheel free stm Setting s Motor brake Drive motor [Ref.4]	Type e(Count up)[Ref.1] ng scheme al/Magnetic & Optical D / 4WD broward & Reverse portation weight 2WD force[N/k g f] gradius (AGV alone) ability (At full load) ating hours (At full load) cy(AGV alone) [Ref.2] peed [Ref.3]] [Ref.8] W H weight (kg) setting method ucture in manual operation speeds[Ref.3] c on motor axis) DC with brush, chain drive DC brushless, chain drive	Programm 2WD 400kg 255N/26 550mi	nable(Abs	2WD 500kg 9N/33kgf 550mm ble and Mari 95 6 9 105kg	Fowing Ty s/Count up spot 2WD Forwar 750kg 478N/49l 550mm 4~ 00 41 145kg 0 Speeds	marker of the state of the stat	ammable(Geount &A CewD Ookg 1/65kgf Omm end on op mm(%:± ppox.40m/ Okg Touce Cepplied for **	/ Type Sap-reading, sbsolute ad /*/* 2WD 1500kg 956N/98k 1000mm 1 degree sperating ra 10mm(Opt min, Gap-re (1110) (775) (1080) 250kg h panel / Gap-reac **	Marker's dress Tiril 2WC 44 45 55 55 55 55 55 55 55 55 55 55 55	pattern reis >>> 4WD Forward 00kg - 50mm attery siz 100 64 41(Deck 03kg Marker	2WD × 4V / Forward 500kg 700mm e) ding: Appro 655~ 00 H: min 325 133kg reading)	ype type is sel VD 2WD & Revers 75 100 100 x, 27m/min (1 (1) (2) 25	#4WD see 50kg - 20mm 110) 775) 080) 50kg	DB Type Spot marker count X X X X X X X X X X X X X X X X X X X

Drawing of our representative AGV

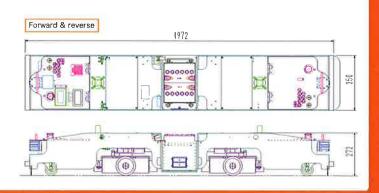
Low height S type Forward



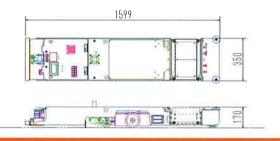


Low height M type

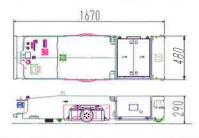




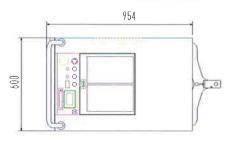
Low height L type



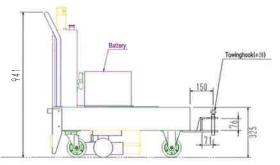
Low height H type



Dolly Type



Towing Type



Forward & reverse

[Ref.2] Any functions can not be available for "No programmable type". [Ref.2]: At the speed of less than or equal to 10m/min_under the constant load.
[Ref.3] Maximum speed can be 50m/min, Gap-reading type and Marker reading type in No programmable series do not have the functions of multi-speed and variable speed.
[Ref.4] DC with brush, Chain drive is the best for carrying the light works because of low cost. / DC Brushless, Chain drive has the stability at low speed running. / DC brushless, direct drive has the stability at low speed and easy for maintenance. [Ref.5] Setting of the maximum speed, body size and weight are changed by its transporting weight. Ask us about the detail [Ref.6] Ask us when the transport weight is over the said weight. [Ref.7] Depends on operating rate and battery size. [Ref.8] Can be changed by the battery size.





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This catalog is as of March 2018, information in this catalog may be changed for improvement without notice. Please note that Pictures in this catalog show some AGV with options.

DL1803_3000