

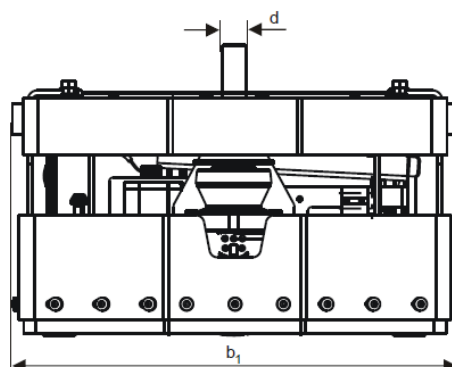
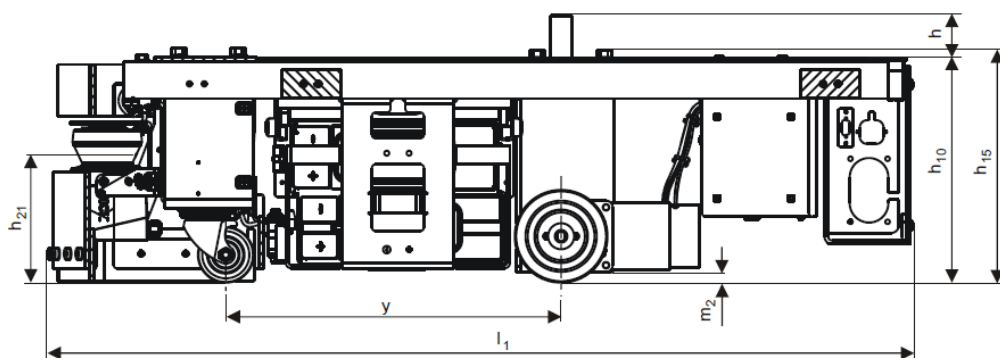
Autocart Tow Cart 500kgs

BT autocart

TAE050



Specifications					TAE050
Dimensions	4.2	Total height	h_{15}	mm	316
		Height, laser beam	h_{21}	mm	173
	4.1	Coupling height, tow pin	h_{10}	mm	302
	2	Height, tow hook	h	mm	59
		Diameter, tow hook	d	mm	30
	4.1	Total length	l_1	mm	1167
	9				
	4.2	Overall width	b_1/b_2	mm	551
	1				
4.3	Ground clearance, wheelbase centre	m_2	mm	15	
4.3	Turning radius	W_a	mm	600	
5					
Performance	5.1	Speed with/without load		m/s	0.5/0.83
	5.8	Maximum gradient capability, carried load/towed load		%	3/1
	5.1	Travel brake			Electro-magnetic
0					
Electric motor	6.4	Battery voltage/nominal capacity	K_5	V/ Ah	24/64
	6.5	Battery weight		kg	42

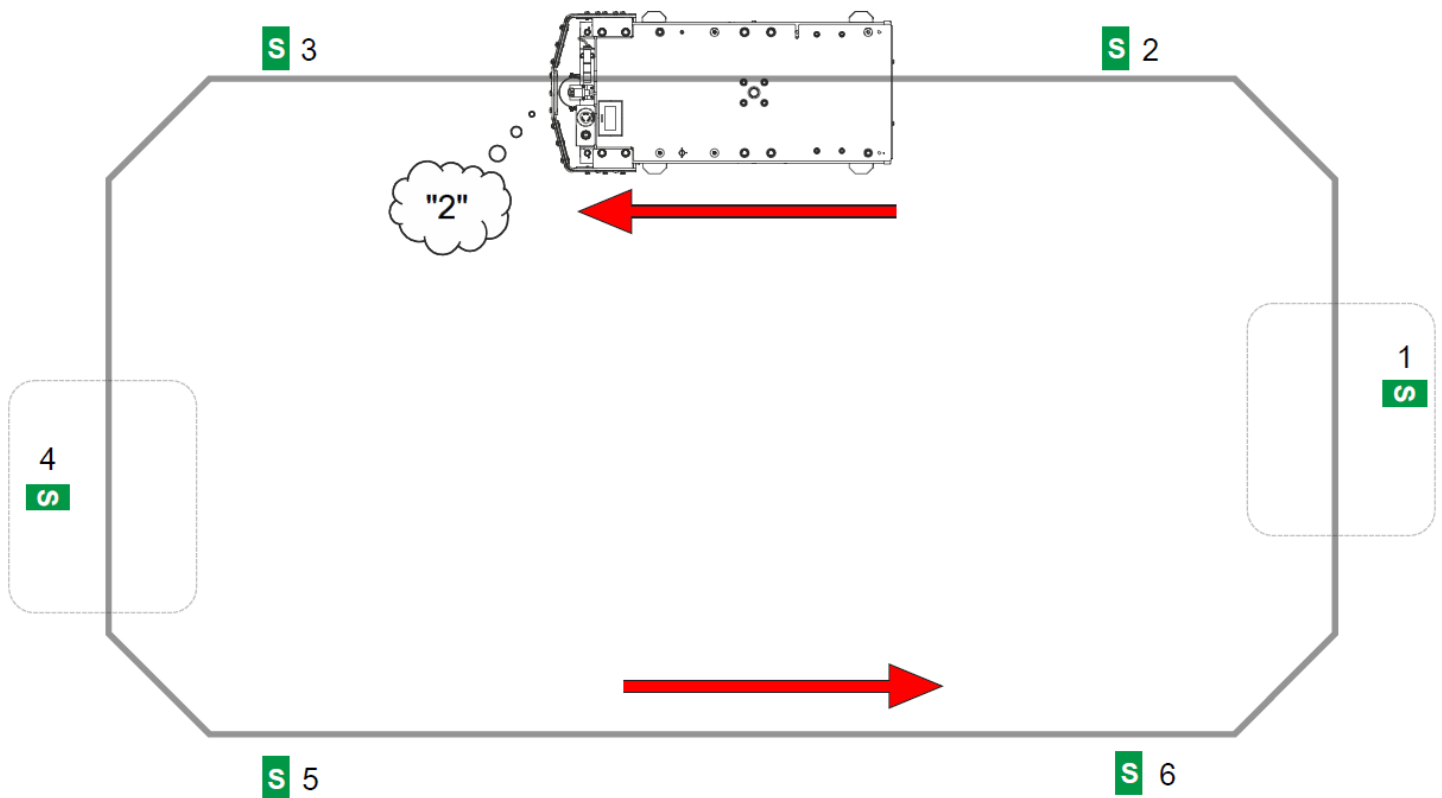


System Description

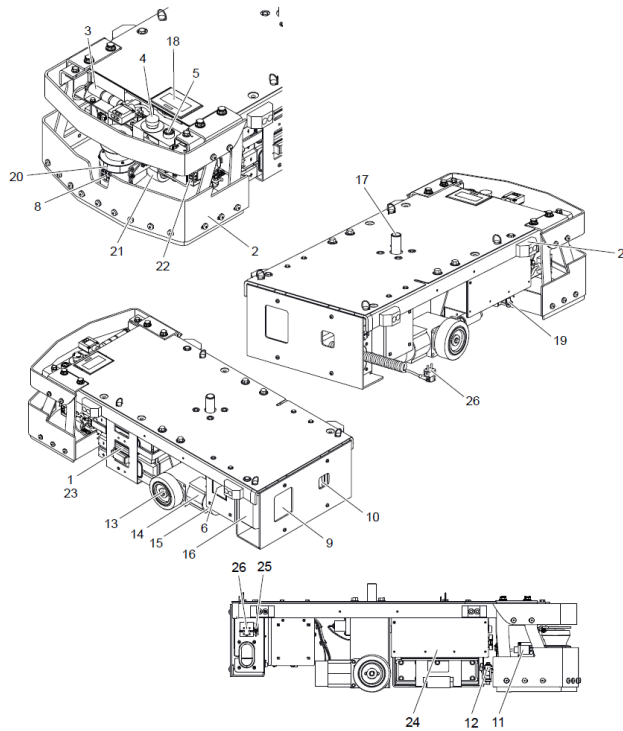
PCC means that the floor markers to be used are always green and that the commands are set in the programme stored in the truck. The marker has a virtual number (address), and each marker may execute several commands. The various commands for each marker are set in the TASK data sheets. Every marker in the protocol uses one row.

In order to drive the truck in a circuit, a TAS data sheet must be created for the real TASK. Before starting the truck, the real number for the TASK and the address where the truck is standing must be selected. This is done on the control panel display.

Recommendations and rules for positioning PCC markers are the same as for FFC markers.



- 1) Stop, Electric tow pin up, Time up alarm, Safety area L-short.
- 2) Speed 40m/min, Safety area FW-long wide, Sound Off.
- 3) Speed 10m/min, Safety area L-long wide, Sound On.
- 4) Stop, Electric tow pin down, Safety area L-short.
- 5) Speed 35m/min, Safety area FW-long, Sound Off.
- 6) Speed 15m/min, Safety area L-short, Sound On.



No.	Designation	Function
1	Battery	For more information, see the Battery chapter.
2	Floor scraper	Protects the machine against smaller objects.
3	Warning lamp	Shows the truck status; see the chapter Warning lamp for more information.
4	Emergency stop switch	Stops the truck in emergency situations. The motor is switched off, and the brakes are applied.
5	Starter switch	Press the starter switch and the truck starts operations in automatic mode. The truck stops if the starter switch is pressed while the truck is operative.
6	Main switch	Switch. It will automatically cut the power if the current is above the maximum allowed.
	Automatic sleep function	Switch. After the truck is finished with the current job, it switches to idle mode and starts the 60 minute countdown to when the power is automatically switched off.
7	Horn	Will sound a signal or play a melody before start and when running. Also warns when the protective sensor is activated. See chapter Horn.
8	Control panel of the safety sensor	Shows the status for the protective sensor with LED indicators and a display unit. Configuration cable socket.
9	Battery charger display	Control panel for the charging process.
10	Error indicator LED display (7 segments)	Displays error codes and is used if the truck is not equipped with a control panel. See the chapter Error indication for further information.
11	OCU - Optical Communication Unit (option for remote start)	The truck may be given driving commands via an optical interface. A stationary OCU unit communicates with the truck OCU when the truck passes a specific point of the track where various driving commands are given. Depending on the position of the OCU on the truck, the stationary OCU will be placed either to the side of the track or in the ceiling. For more information, see the chapter OCU - Optical Communication Unit
12	Driving sensor	Detects the magnetic tape that is a part of the driving circuit.

13	Drive wheel	The drive wheels are individually driven by a motor with reduction gears and a spring brake for each wheel respectively.
14	Motor	Electric motor with reduction gears and spring brake.
15	Brakes	Spring brake on the drive wheels. Automatically applied if the truck is not running.
16	Built-in battery charger (option)	Charger with socket for connection to a 230VAC/50Hz mains socket
17	Tow pin Fixed (standard), electrically lifting and lowering (option)	The electrical type is used for automatic pick-up and release of trolleys at different stations. For more information, see the chapter Electric tow pin.
18	Control panel with touch screen (option)	Shows task numbers, addresses, error codes and parameters. Makes it possible to make address changes and resetting in case of errors, manual control of brakes and electric tow pin, etc.
19	Marker sensor (drive commands)	Reads the floor markers at check points
20	Safety sensor	When the sensor detects an object, and depending on the distance to the obstacle, the truck is either slowed down or stopped completely.
21	Steered wheels	Castor wheel
22	Marker sensor for the electrically raised and lowered tow pin (FFC)	Detects the markers on the floor that control the electric tow pin. Is only used for FCC markers.
23	Battery connector	Has a T-handle to help when pulling out the battery connector. The connector must be disconnected for service or battery changes.
24	Relay box	All control relays are placed in the relay box. These may be seen through the transparent cover.

25	Computer interface	Computer interface for service settings. Opening in the cover for the configuration cable.
26	Charging unit connector (only together with a built-in charger)	The is a bracket for the charger connector on the truck. The truck it is not be driven unless the connector is held by the bracket. This is a security measure to ensure that the truck cannot be drive while being charged using the built-in charger.
27	Support block	Nylon block to guide tunnel trolleys.