

LET US GUIDE YOU INTO THE FUTURE



# SM2KWB



## SM STANDARD FEATURES

### Specifications

**AGC WEIGHT W/BATTERES**..... ~555 LBS  
**BATTERY WEIGHT W/TRAYS** .....~200 LBS  
**DRIVE MAX VERTICAL LOAD** ..... 500 LBS  
**CAPACITY (TOWING)** ..... 2000 LBS  
**MAX SPEED** ..... 30 IPS (~1.7 MPH)  
**VOLTAGE**..... 24VDC  
**STOPPING ACCURACY**..... ~+- .5"  
**GROUND CLEARANCE** .....~3/4"  
**MIN. TURN RADIUS 39"@18 IPS (~1 MPH)**  
**DECK DIMENSIONS** ..... 46" L X 25" W X 12" H  
**OVERALL CART LENGTH** .....~72"  
**DECK MATERIAL**..... PRE-PUNCHED

### Contact

**PHONE:**  
**(517) 646-0358**  
**FAX:**  
**(517) 646-8301**  
**EMAIL:**  
**INFO@IDCCORPORATION.COM**

NOTE: PLEASE CONSULT THE FACTORY FOR A LIST OF OPTIONS, PRICES, DELIVERY AND AGC APPLICATION ASSISTANCE. DEMO AND PROTO-TYPE VEHICLES MAY BE AVAILABLE. CONTACT YOUR SALES REPRESENTATIVE FOR DETAILS. SPECIFICATIONS MAY CHANGE WITHOUT NOTICE. CONTACT THE FACTORY IF THERE ARE QUESTIONS.



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### DRIVE AND STEERING

- High torque 300W 6" DC motorized drive wheel
- 70W geared steering motor with position feedback
- Integral fail-safe brake

### GUIDANCE

- Magnetic Guidance with dead reckon capability for imperfections in tape

### OPERATION CONTROLS (HARDWARE)

- Microprocessor (MCB Based) /Allen Bradley PLC controlled for all AGC operations
- Color HMI for programming and information
- Radio Communication. 5Ghz, 2.4Ghz, or 900Mhz
- Regenerative servo drive with encoder feedback
- Floor sensor for magnetic or RFID AGC location
- Programmable sound module multi-function
- Status lights/Turn Signal
- Flashing LED lights for diagnostics at a quick glance
- Safety laser scanner with programmable fields
- Pin lift for tunneling applications
- 24VDC user I/O for on board control
- Built in battery charger
- External charge shoes (floor and side mount options available)
- (4) 12VDC 60AH Gel batteries

### OPERATION CONTROLS (SOFTWARE)

- Simple and easy to use HMI Programming screen
- Routes are set up as a series of seamless steps
  - Distance move (in inches) or time (in seconds)
  - Forward only motion
  - Speed in inches per second
  - Center, left, or right path selection
  - Sound selection and volume
  - Safety scanner patterns
  - User definable output control
  - User definable input triggers

### SYSTEM OPERATION

- Unique SM feature cart to cart blocking provides traffic control at intersection without the need of an additional controller.
- AGCs detect each other via radio and each of the 1500 steps can pause for a selection of up to 8 steps/routes occupied by another AGC
- Local/Master dispatch bits allow complex routes to be simply selected at the point and time of dispatch (dispatch bits can be selected locally on HMI or managed by the master controller)
- Master controller can be a simple microprocessor-controlled radio or a PLC with plant graphics and part tracking information; various PLC brands available
- Master control monitors AGC status such as location, battery status, and full diagnostics.
- Master control can communicate with plant information systems
- Master controller can include various control features such as: launch, traffic control, dispatch, and synchronous motion

### CHARGING SYSTEM

- Charging options include on-board, in-line at dwell stations, or off-line opportunity charging