



## SmartCart AGC - Product Specifications

<b>Model</b>	<b>100TT</b>	
Traction Power	40 lbs constant, 80+ lbs starting	
Rated Trailer	2000 lbs total weight, with 2% friction factor wheels	
Wheel Loading	Front	External additional - 200 lbs*
	Rear	External additional - 300 lbs each*
		* weight added to module must be subtracted from towing weight
Drive Direction	Forward and optional reverse	
Duty Cycle	21% @ 40 lb drawbar (2000 lbs)	
	47% @ 30 lb drawbar (1500 lbs)	
	100% @ 20 lb drawbar (1000 lbs)	
Drive unit	Wheel	Vulkolan 150 mm diameter x 50 mm wide
	Drive Type	Gear-driven steerable turntable
	Motor	130 watt 24VDC permanent magnet
	Steering	24 VDC motor
	Brake	3 nm, spring actuated (fail-safe)
Caster Wheels	Solid elastomer 5" diameter x 2" wide	
Guidance	Method	Magnetic and SmartSteer navigation
	Steer Angle Sensor	Analog, 10 turn potentiometer
	Steering Accuracy	+/- 1" from physical path
	Guide Loss Error	Error generated within 200 milliseconds of path loss
	Hunt for Path	Not offered, violates ANSI B56.5
	Sensor	16 millisecond data rate, 50 updates per second
	Tuning	Manually activated, automatic calibration function
SmartSteer™	Navigation	Configurable off-path navigation in forward and reverse
	Accuracy	+/- 3" @ 10' from intended path
Battery Options	2 - AGM 105AH 12VDC, up to 45 amp charge rate	
	2 - AGM/TPPL 106AH 12 VDC, up to 85 amp charge rate	
	Automatic Charge	40 amp charge rate, via shoes underneath (optional) 85 amp charge rate, via "fast charge" (optional)
	Manual Swap	Yes, with AGM 105AH 12VDC
	Manual Charge	Yes, up to 25 amp charge rate, via SB-50 connector
Display	Color touch screen - errors & destinations standard	
Manual Movement	Pendant - via pendant plug receptacle	
	Manual - dolly	
Minimum Path Radius	24 inches - 90 degree turn	
	48 inches - 180 degree turn	
Running Speed	Forward - 15 to 160 fpm, 4 configurable speeds, 1 fpm increments	
	Reverse - maximum of 30 fpm (if equipped)	
	Accuracy - +/- 5 fpm	
Speed Encoder	1092 pulses per inch of travel	
Drive Stalled Detection	Yes	
Stopping Accuracy	1-1/2" transponder, 1/2" with optional proximity sensor	
Distance Initiated Functions	Capable of initiating functions on 1" increments	
Location Method	Transponder tags, 5 data bytes including checksum	
	Virtual locations via distance initiated functions	
Program Method	PC and wireless communication (optional)	
Program Capacity	5000 program steps standard	
Obstacle Detection	180 degree, programmable up to 2.8 meters (if equipped)	
Safety	Bumper Sensor	Front - plastic hoop, ANSI B56.5 compliant (if equipped)
		Front - 4 pattern laser, ANSI B56.5 compliant (if equipped)
		Rear - paddle switch, ANSI B56.5 compliant (if equipped)
	Emergency Stop	Front
	Indicator Light	Front - blink while in automatic mode
	Turn Signals	Front - left & right side (optional)
Alarm Horn	Front - sound prior to travel and while traveling	
CE Rating	Yes, with required options	
Environment	Grade Rating	0%
	Atmosphere	0 to 40 degrees C, 25% to 95% non-condensing humidity
	Dust/Water-proof	No
Floor Specs	Edges/Debris	1/4" abrupt elevation change maximum
	Expansion Joints	1/4" maximum
	Flatness	1 degree, 1/4" variation in 5' or less
	Friction	.6 coefficient of friction required between wheels and floor
	Conductivity	Dissipative to 100 Mega OHM per square inch maximum
Other Options	Traffic Control	Desktop computer via wireless
	Radio Communication	IEEE 802.11a/b/g including security encryption
	Opportunity Charge	Up to 85 amp charge rate