

## SmartCart® Guide

Daifuku AGVs offer flexibility, reliability and scalability at an affordable price.

### FEATURES

**M100/M300-TT:** Designed to “tunnel” under mobile racks for minimum footprint.

**M300-SC:** capacity to move 1,451 kg pallets to/from conveyors in less than 10 secs.

**M300-CF:** lifts 635 kg at 508 mm l.c. ideal to pick/drop pallets from conveyors or floor.

**Safe:** 8-pattern laser as standard to detect obstructions and personnel, with option of 16-pattern.

**Affordable:** Many applications can demonstrate Return on Investment in three months or less.

**Simple:** CartTools™ and AGV Tools software provide a user-friendly interface to implement/make changes.

**Industrial:** Steel construction with powder coat and industrial enamel paint.

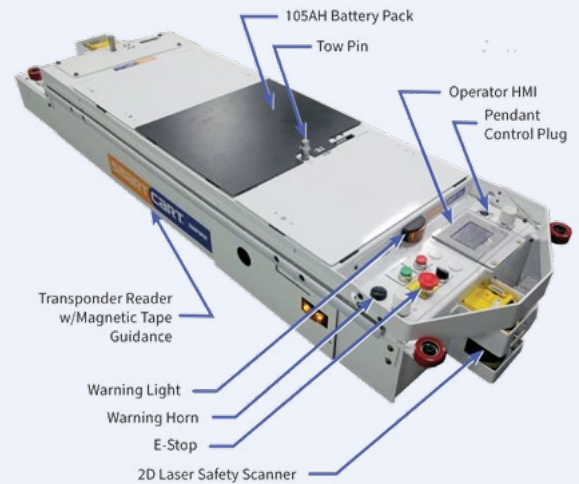
**Integration:** Can integrate with Plant Control Systems via Wi-Fi communications and our System Automation Manager™ (SAM) software providing traffic control.

**Navigation & Guidance Options:** Natural Feature Navigation, Inertial Navigation, Magnetic Tape/Bar Guidance, and Laser Navigation (M300-CF/SC)

### M100-TT

#### Tunnel/Tugger 885 kg Max Towing Capacity

Weight / with batteries .....	109 kg / 163 kg
Dimensions.....	W: 489 mm L: 1473 mm H: 274 mm
Traction Power .....	18 kg constant, 36+ kg starting
Safety – Front/rear .....	CE/UKCA rated safety bumper
Speed – Laser Bumper.....	4.6 to 48.8 MPM - 6 speeds, 0.3 MPM increments
	Maximum 9.1 MPM (if equipped)
Rated Trailer .....	885 kg @ 30.5 MPM
	476 kg @ 48.8 MPM
	With 2% friction factor trailer wheels
	Capacity reduced by 10% when reversing
	1% Incline/Decline 499 kg @ 30.5 MPM
Battery Options.....	AGM 105 AH 24VDC battery pack
	AGM/TPPL 102 AH 24VDC battery pack
	Lithium 90AH 24VDC battery pack
Automatic Charge .....	40 amp charge rate (if equipped)
Fast Automatic Charge .....	85 amp charge rate (if equipped)
Manual Charge.....	Up to 25 amp charge rate, via manual plug



### M100-ST

#### Tunnel/Tugger 885 kg Max Towing Capacity

Weight / with batteries .....	122 kg / 147 kg
Dimensions.....	W: 511 mm L: 991 mm H: 292 mm
Traction Power .....	18 kg constant, 36+ kg starting
Safety – Front/rear .....	CE/UKCA rated safety bumper
Speed – Laser Bumper.....	4.6 to 48.8 MPM - 6 speeds, 0.3 MPM increments
	Maximum 9.1 MPM (if equipped)
Rated Trailer .....	885 kg @ 30.5 MPM
	476 kg @ 48.8 MPM
	With 2% friction factor trailer wheels
	Capacity reduced by 10% when reversing
	1% Incline/Decline 499 kg @ 30.5 MPM
Battery .....	AGM/TPPL 45AH 24VDC battery pack
Automatic Charge .....	48 amp charge rate (if equipped)
Manual Charge.....	Up to 25 amp charge rate, via manual plug



### M300-TT

#### Tunnel/Tugger 2,041 kg Max Towing Capacity

Weight / with batteries .....	391 kg / 499 kg with traction weight
Dimensions.....	W: 787 mm L: 1981 mm H: 356 mm
Traction Power .....	36 kg constant, 73 kg starting
Safety – Front/rear .....	CE/UKCA rated safety bumper
Speed – Laser Bumper.....	4.6 to 48.8 MPM, ( 73.2 MPM w/Inertial Guidance)
	6 speeds, 0.3 MPM increments
Rated Trailer .....	2,041 kg @ 48.8 MPM
	With 2% friction factor trailer wheels
	Capacity reduced by 10% when reversing
	1% Incline/Decline 1,179 kg @ 30.5 MPM
Battery Options.....	AGM 210 AH 24VDC battery pack
	AGM/TPPL 204 AH 24VDC battery pack
	Lithium 180AH 24VDC battery pack
Automatic Charge.....	80 amp charge rate (if equipped)
Fast Automatic Charge .....	140 amp charge rate (if equipped)
Manual Charge.....	Up to 25 amp charge rate



### M300-SC

#### Single Conveyor 1,451 kg Capacity

Weight / with batteries .....	1070 kg / 1179 kg
Dimensions.....	W: 1448 mm L: 2311 mm H: 1295 mm
Maximum Load .....	1451 kg Minimum 1016 mm x 1016 mm distributed load
Maximum Pallet .....	1200 mm x 1200 mm
Roller Conveyor.....	64 mm dia., 11 GA wall 83 mm on center
Effective Widths .....	1041/1092/1168/1245 mm- width of pallet in direction of transfer
Top of Roll.....	457 mm to 813 mm in 25.4 mm increments
Transfer Speed .....	13.7 to 3.1 MPM, soft start
Load Sensing.....	Yes, using cross conveyor optic
Transfer.....	Left and Right side
Transfer.....	Interface Optical with emitter and receiver pair on each side
Safety – Front .....	CE/UKCA rated safety bumper
Speed – Laser Bumper.....	4.6 to 73.2 MPM, (73.2 MPM with laser guidance)
	6 speeds, 0.3 MPM increments
Battery Options.....	AGM 210 AH 24VDC battery pack
	AGM/TPPL 204 AH 24VDC battery pack
	Lithium 180AH 24VDC battery pack
Automatic Charge.....	80 amp charge rate (if equipped)
Fast Automatic Charge .....	140 amp charge rate (if equipped)
Manual Charge.....	Up to 25 amp charge rate



### M300-CF

#### Counterbalance Fork 635 kg at 508 mm l.c. 558 kg at 610 mm l.c.

Weight / with batteries .....	1173 kg
Dimensions.....	W: 1041 mm L: 2819 mm H: 2134 mm
Maximum Load .....	635 kg at 508 mm load centre
	558 kg at 610 mm load centre
Lift Range Floor to.....	1219 mm
Safety: Front/Rear Laser Bumper .....	CE/UKCA rated safety bumper (16 Pattern)
Speed.....	4.6 to 73.2 MPM, (48.8 MPM with laser guidance)
	6 speeds, 0.3 MPM increments
Battery Options.....	AGM 210 AH 24 VDC Battery Pack
	AGM/TPPL 204 AH 24 VDC Battery Pack
	Lithium 180AH 24VDC battery pack
Automatic Charge.....	80 amp charge rate
Fast Automatic Charge .....	140 amp charge rate
Manual Charge.....	Up to 25 amp charge rate

