

SMART CART | DAIFUKU

SmartCart M100-TT
Tunnel, Tugger



SmartCart M100-TT Tunnel, Tugger Owner's Manual

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SmartCart M100-TT Tunnel, Tugger



Specifications

- **Brand:** Daifuku
- **Model:** AGV Solutions
- **Product Types:** Automatic Guided Vehicle Guide, Counterbalance Fork
- **Capacity:** 3,000 lbs Pallet Capacity

Product Usage Instructions

M100-TT Tunnel/Tugger

Main Features:

- Max Towing Capacity: 885 kg
- Rated Trailer: 885 kg @ 30.5 MPM
- Battery Options: AGM 105 AH 24VDC, AGM/TPPL 102 AH 24VDC
- Charge Rates: Automatic Charge – 40 amp, Fast Automatic Charge – 85 amp, Manual Charge – up to 25 amp

M300-TT Tunnel/Tugger

Main Features:

- Max Towing Capacity: 2,041 kg
- Rated Trailer: 2,041 kg @ 48.8 MPM
- Battery Options: AGM 210 AH 24VDC, AGM/TPPL 204 AH 24VDC
- Charge Rates: Automatic Charge – 80 amp, Fast Automatic Charge – 140 amp, Manual Charge – up to 25 amp

M300-SC Single Conveyor

Main Features:

- Capacity: 1,451 kg
- Dimensions: W: 1448 mm, L: 2311 mm, H: 1295 mm
- Battery Options: AGM 210 AH 24VDC, AGM/TPPL 204 AH 24VDC
- Charge Rates: Automatic Charge – 80 amp, Fast Automatic Charge – 140 amp, Manual Charge – up to 25 amp

M300-CF Counterbalance Fork

Main Features:

- 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)

Frequently Asked Questions (FAQ)

- **Q: What are the battery options available for the AGV Solutions?**

A: The AGV Solutions offer battery options including AGM 105 AH 24VDC, AGM/TPPL 102 AH 24VDC, AGM 210 AH 24VDC, and AGM/TPPL 204 AH 24VDC.

• **Q: How can I charge the AGV Solutions?**

A: You can charge the AGV Solutions automatically with varying charge rates such as 40 amp, 80 amp, or manually with up to 25 amp charge rate via a manual plug.

• **Q: What is the maximum towing capacity of the M300-TT Tunnel/Tugger?**

A: The M300-TT Tunnel/Tugger has a maximum towing capacity of 2,041 kg.

SmartCart® Guide Counterbalance Fork

3,000 lbs Pallet Capacity

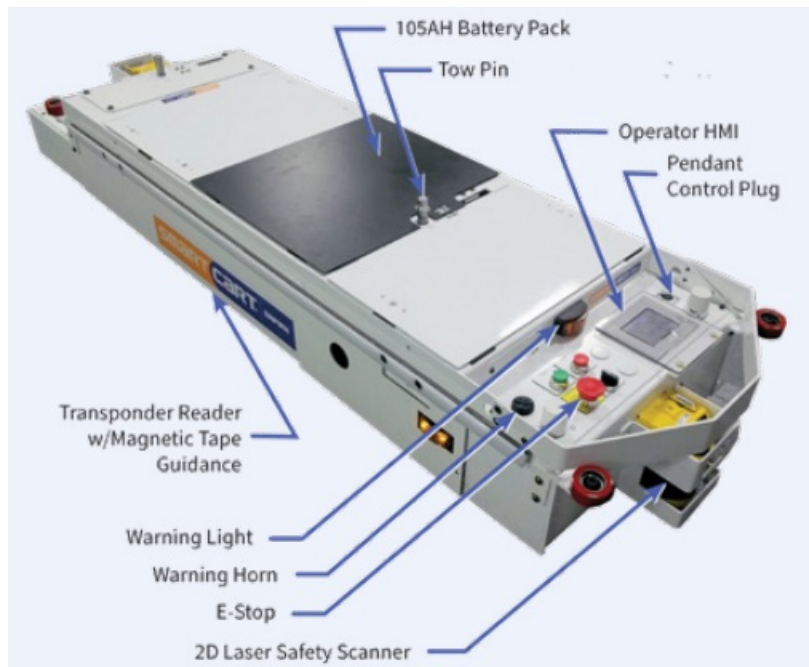
Daifuku AGVs offer flexibility, reliability and scalability at an affordable price.

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
- 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



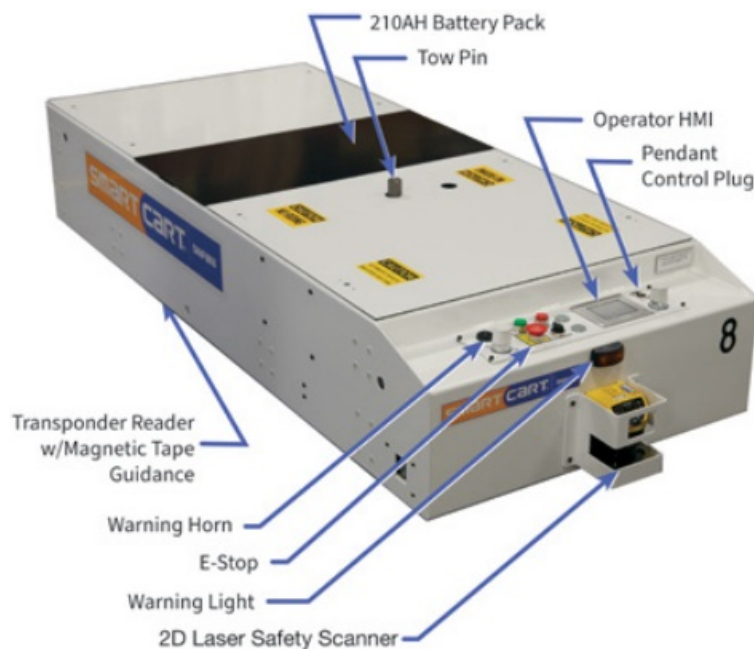
M100-ST Tunnel/Tugger 885 kg Max Towing Capacity

- 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 36AH 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
- 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 batteries1070 kg / 1179 kg
- Dimensions.....W: 1448 mm L: 2311 mm H: 1295 mm
- Maximum Load1451 kg Minimum 1016 mm x 1016 mm distributed load
- Maximum Pallet1200 mm x 1200 mm
- Roller Conveyor.....64 mm dia., 11 GA wall 83 mm on center
- Effective Widths1041/1092/1168/1245 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
- Automatic Charge.....80 amp charge rate (if equipped)
- Fast Automatic Charge140 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 batteries1173 kg
- Dimensions.....W: 1041 mm L: 2819 mm H: 2134 mm
- Maximum Load635 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
- Automatic Charge.....80 amp charge rate
- Fast Automatic Charge140 amp charge rate
- Manual Charge.....Up to 25 amp charge rate



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Documents / Resources



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T Tunnel, M100-TT Tugger, Tunnel Tugger, Tunnel, Tugger

References

- [User Manual](#)

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