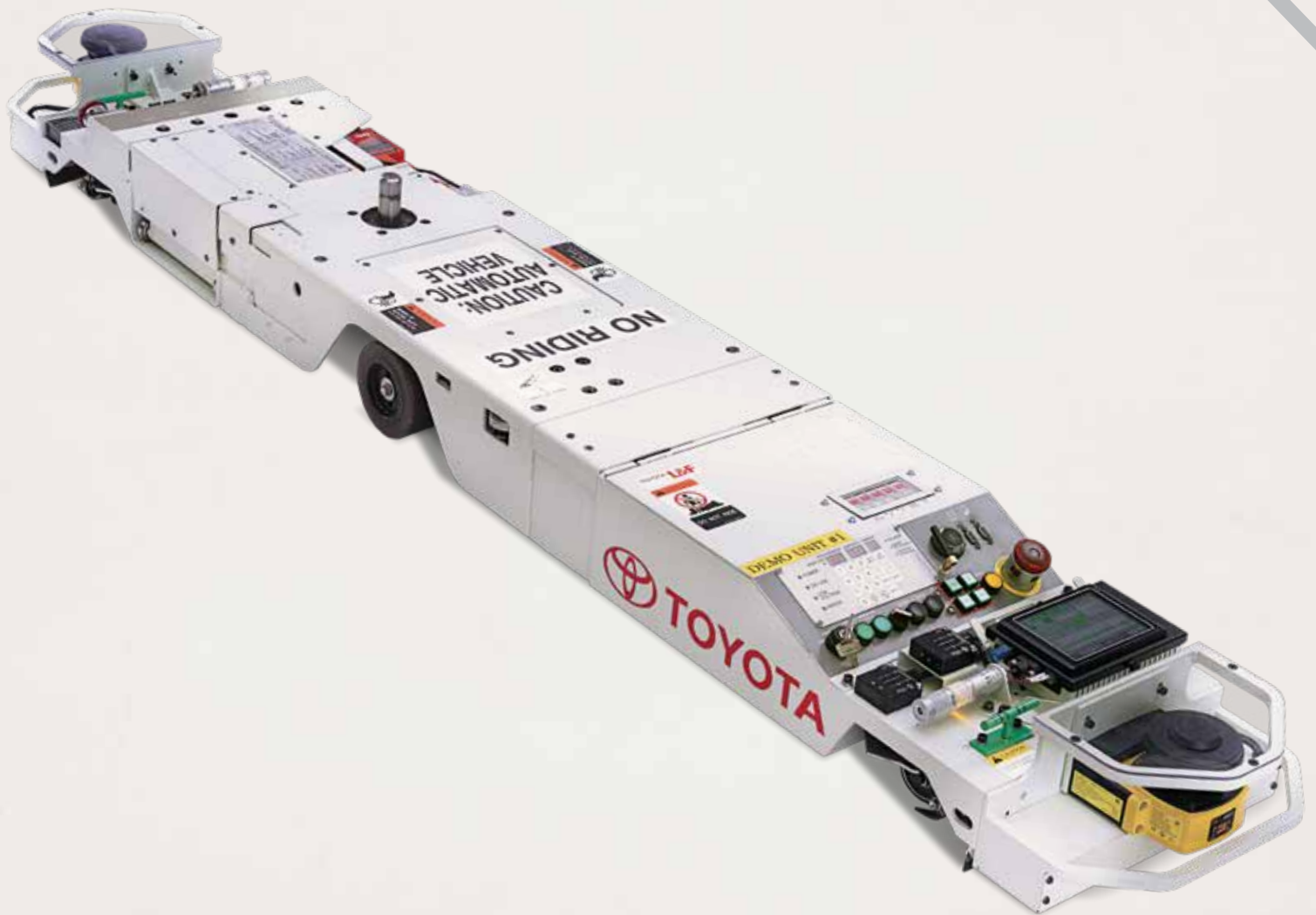


# TUG-CART MOUSE AGV

# ONE MIGHTY MOUSE

- ▶ 1100 - 3300 lb. Capacity
- ▶ Fully Customizable Load-Handling Frames
- ▶ 24-Volt Electric Motor
- ▶ Wireless Connectivity



MOUSE 3A10-15N | MOUSE 3AB10-15N | MOLE 3A5-8SN

# SMALL IN SIZE BIG IN PRODUCTION

**THE TOYOTA TUG-CART MOUSE AGV.** Your pathway to increased productivity. The Tug-Cart Mouse AGV fits into tight areas, shares aisles with pedestrians and forklift traffic, and adapts easily to future change. Efficient, dependable and versatile, it's a cost-effective way to optimize your manufacturing and assembly line processes through automation.



**1100 – 3300** LB.  
CAPACITY

# ZE, PRODUCTIVITY



MOUSE 3A10-15N

# TUG-CART MOUSE AGV ADVANTAGES

▶ **INCREASES PROFITS** by reducing labor costs, eliminating product damage and ensuring on-time material delivery

▶ **EASY TO OPERATE** thanks to onboard software that stores multiple routes; to initiate operation, just enter the desired route number and press “Start”

▶ **LOW-PROFILE DESIGN** allows the AGV to position itself under a cart, automatically raise the tow pin and haul the cart away

▶ **LASER OBSTACLE SCANNER** can be programmed for different zones to allow intuitive operation near pedestrians and within confined spaces along walls and racking

▶ **EASY TO ADD TO EXISTING ASSEMBLY LINE** by laying down self-adhesive magnetic guide-path tape



FULLY  
CUSTOMIZABLE  
LOAD-HANDLING  
FRAMES

24<sup>v</sup>  
ELECTRICAL SYSTEM

# LABOR COST SAVINGS

▶ **REMOVES VARIABLES FOR INCREASED CONSISTENCY**

compared to manned material handling — always takes same route, same timing, same speed, same notifications

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▶ **REDUCES OR ELIMINATES DAMAGE**

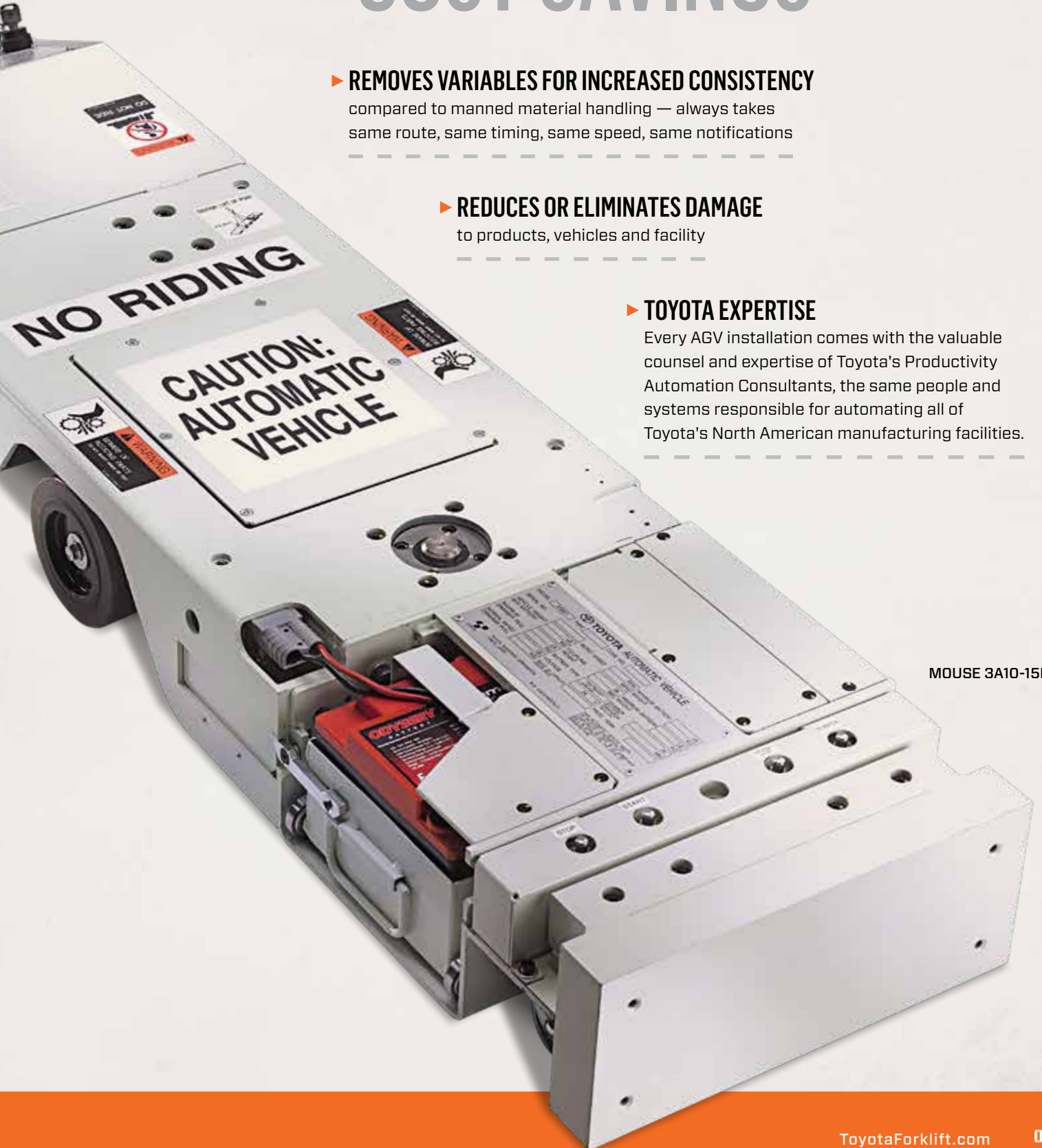
to products, vehicles and facility

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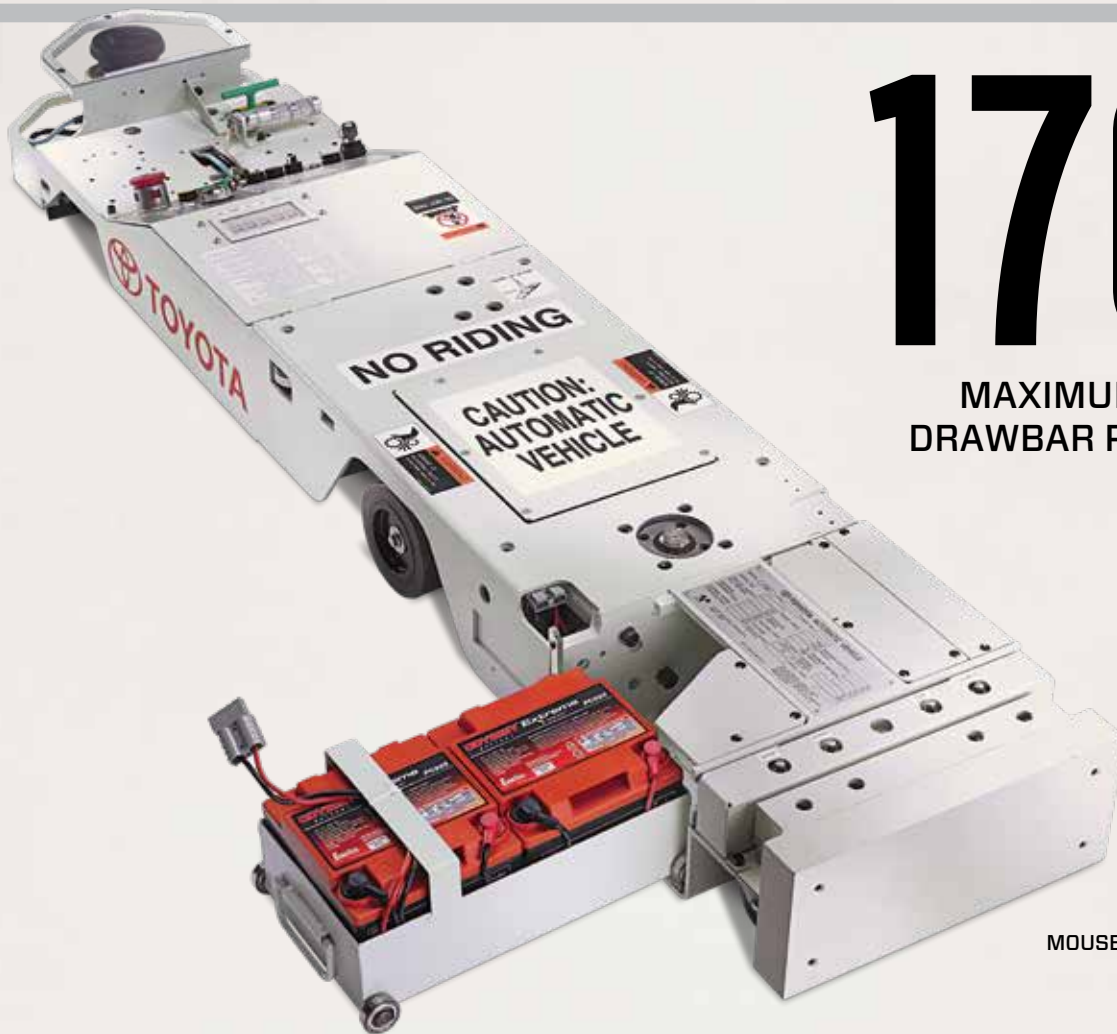
▶ **TOYOTA EXPERTISE**

Every AGV installation comes with the valuable counsel and expertise of Toyota's Productivity Automation Consultants, the same people and systems responsible for automating all of Toyota's North American manufacturing facilities.

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MOUSE 3A10-15N



# 176<sup>LBF.</sup>

MAXIMUM  
DRAWBAR PULL

MOUSE 3A10-15N

## MATERIAL, WELL HANDLED

Purchasing a Toyota AGV arms you with a full material-handling system geared for high efficiency, productivity and reliability. Toyota provides assistance to help you customize decisions about navigation methods, path selection, traffic control options and system controls. Enabling your business to get more done, while saving time and money.

## LIKE CLOCKWORK

Your daily warehouse routine can be anything but routine. Especially when it involves high levels of forklift traffic in heavily populated areas. A Toyota AGV system replaces uncertainty with clockwork proficiency for repetitive jobs involving long horizontal travel distances, simple loading/unloading processes, level floors and multi-shift operation.

## AN INVESTMENT THAT PAYS YOU BACK

Toyota AGVs are designed to function as crucial components of well-thought-out integrated systems that work together to deliver intuitive, dependable performance day after day. Toyota AGVs don't require a lot of service. But when they do need service, it's fast and easy — by design. And legendary Toyota quality means more productivity over the life cycle of your AGV, along with lower repair costs.

## PREDICTABLE PERFORMANCE YOU CAN BANK ON

The Toyota Tug-Cart Mouse AGV. A one-time purchase that pays long-term returns. Reducing labor costs. Increasing productivity. Reducing expensive — and sometimes dangerous — employee errors. Delivering predictably productive performance day after day, year after year. For results you can bank on. Best of all, it's a Toyota — proven the most dependable, reliable line of material-handling equipment you can buy.

# TUG-CART MOUSE AGV

**CAPACITY**  
**1100 - 3300 LBS.**

**MAXIMUM DRAWBAR PULL**  
**176 LBF.**

**VOLTAGE**  
**24**

## INDUSTRIES



Beverage



Distribution



Food Processing



Food Storage



General Manufacturing



General Warehousing



Retail

## TRUCK SPECIFICATIONS

### MODEL NUMBERS

| GENERAL DATA   |  |                        | MOLE 3A5SN   | MOLE 3A8SN | MOUSE 3A10N | MOUSE 3A15N | MOUSE 3A10N       | MOUSE 3A15N |  |
|--|--|------------------------|--|------------|-------------|-------------|-------------------|-------------|--|
| Electrical System  |  |                        | 24-Volt  |            |             |             |                   |             |  |
| Battery & Charging Information   |  |                        | 28 Amp Hour  |            |             |             |                   |             |  |
|  |  |                        | Optional Upgrade: Automatic Battery Charging Contacts        |            |             |             |                   |             |  |
|  |  |                        | Optional Upgrade: Automatic Power Off                        |            |             |             |                   |             |  |
| Guidance Method  |  |                        | Magnetic Induction   |            |             |             |                   |             |  |
| Travel Direction   |  |                        | Forward Only   |            |             |             | Forward / Reverse |             |  |
| Maximum Weight Capacity <sup>1</sup>   |  | lb. (kg)               | 1100 (500)   | 1750 (800) | 2200 (1000) | 3300 (1500) | 2200 (1000)       | 3300 (1500) |  |
| Maximum Drawbar  |  | lbf. (kgf)             | 66 (30)  | 97 (44)    | 106 (48)    | 176 (80)    | 106 (48)          | 176 (80)    |  |
| Speed  | Maximum  | m/min                  | 50   | 33         | 50          | 33          | 50                | 33          |  |
|  | Settings   | 15 Programmable Speeds |  |            |             |             |                   |             |  |
| Travel Instruction Method  |  |                        | Standard — Relative Address: Multiple Routes on Demand       |            |             |             |                   |             |  |
|  |  |                        | Optional Upgrade: Absolute Address - Industrial PC with RFID |            |             |             |                   |             |  |
| Drive Type   |  |                        | DC Brushless Motors with Dedicated Drivers                   |            |             |             |                   |             |  |
| Steering Method  |  |                        | Differential (2 Driving Wheels)                              |            |             |             |                   |             |  |
| Braking Method   |  |                        | Electromagnetic  |            |             |             |                   |             |  |
| Cart Engagement Method   |  | in (mm)                | 1.18 (30) dia. Retractable Pin                               |            |             |             |                   |             |  |
| Coupling Sensor  |  |                        | IR Optical Receiver to Lower Pin                             |            |             |             |                   |             |  |
| Drive Unit Up/Down Method  |  |                        | Electric Lift (Push Button)                                  |            |             |             |                   |             |  |
| Wireless Communication   |  |                        | IR 8-Bit Sensors (Vertical & Horizontal)                     |            |             |             |                   |             |  |
|  |  |                        | Optional Upgrade: RF Module (Radio) 900 MHz                  |            |             |             |                   |             |  |
| Control Panel Display  |  |                        | Programming Interface with Error Codes                       |            |             |             |                   |             |  |
| Safety Devices   | Obstacle Sensor  |                        | Safety Rated Laser Scanner with 15 Programmable Views        |            |             |             |                   |             |  |
|  | Stack Light  |                        | 2 Color: Running & Warning                                   |            |             |             |                   |             |  |
|  | Chime & Melody Box   |                        | Multi-Tune Music Box; Running & Fault Chime                  |            |             |             |                   |             |  |
|  | Safety Circuit   |                        | Safety Rated Relay Wired for E-Stop & Laser Obstacle Scanner |            |             |             |                   |             |  |
|  | E-Stop   |                        | Backlit Button & Limit Switch for External Use               |            |             |             |                   |             |  |
| Circuit Protection   |  |                        | Breakers for: Main, Drive Motors, Pin & Drive Lift           |            |             |             |                   |             |  |
| Limit Switches   |  |                        | For External: Start, Stop, E-Stop & Bumper                   |            |             |             |                   |             |  |
| Minimum Turning Radius   |  | in (mm)                | 24 (600)   |            |             |             |                   |             |  |
| Dimensions   | Overall AGV Length   | in (mm)                | 40 (1022)  |            |             | 72 (1820)   |                   | 91 (2320)   |  |
|  | Overall AGV Width  | in (mm)                | 14 (360)   |            |             | 14 (360)    |                   |             |  |
|  | Overall AGV Height   | in (mm)                | 12 (300)   |            |             | 7 (170)     |                   |             |  |
| Floor Conditions   | Slope  | %                      | 1 or Less  |            |             |             |                   |             |  |
|  | Step (ridge)   | mm                     | 5 or Less  |            |             |             |                   |             |  |
|  | Gap (crack)  | mm                     | 20 or Less   |            |             |             |                   |             |  |
|  | Waviness   | mm                     | 10 or Less Over the Length of AGV                            |            |             |             |                   |             |  |
| Working Environment  | Temperature  | F° (C°)                | 32 - 104 (0 - 40)  |            |             |             |                   |             |  |
|  | Humidity   | %                      | 35 - 85 RH (No Condensation)                                 |            |             |             |                   |             |  |
|  | Outdoor Use  | Prohibited             |  |            |             |             |                   |             |  |
| Standard Accessories   | LIAISON — Traffic Control Software (Optional Kiosk With Industrial PC Available) |                        |  |            |             |             |                   |             |  |
|  | Magnetic Guide Tape — 2" Wide x 100' Roll  |                        |  |            |             |             |                   |             |  |
|  | Magnetic Guide Bar — 1/4" x 3/8" x 20' Roll                                      |                        |  |            |             |             |                   |             |  |
|  | Protective Tape for Guide Path 4" Wide x 164' Long ( Multiple Colors Available)  |                        |  |            |             |             |                   |             |  |
|  | Magnetic Marker 2" Wide x 4" Long (Packs Of 20)                                  |                        |  |            |             |             |                   |             |  |
|  | RFID Tag — 22 mm x 3 mm  |                        |  |            |             |             |                   |             |  |
|  | 24V / 40 Amp Battery Charger (Requires 110V Power Supply)                        |                        |  |            |             |             |                   |             |  |
| Automatic Battery Charging Station (Includes 2-Contact Floor Plate, 20V / 40 Amp Battery Charger, 10' Wire Lead For Floor Plate) |  |                        |  |            |             |             |                   |             |  |

<sup>1</sup> Including AGV. Weight capacity is an estimate ONLY. Actual capacity depends on dolly configuration (shape, size, weight, casters).



MOLE 3A5SN  
MOLE 3A8SN

## COUNT ON THE LEADER

- ▶ Toyota leads in quality, durability, reliability and value, thanks to advanced technology and the world-renowned Toyota Production System.
- ▶ With the broadest and most complete set of material-handling solutions in the industry, Toyota Dealers specialize in meeting all of your needs — from a single forklift to an entire fleet.
- ▶ Toyota's industry-leading network of dealers backs every forklift with proven product support. Resources include factory-trained service technicians, Toyota Genuine Parts, and flexible leasing and financing packages through Toyota Industries Commercial Finance.

- ▶ Toyota forklifts have ranked No. 1 in safety and quality since 2002, according to studies conducted by Peerless Research Group.

For more information, including full specs, see your Toyota Dealer or [ToyotaForklift.com](http://ToyotaForklift.com).

