

# *ATX-Series*

*Omni-Directional Forklift*



# *AIRTRAX:* *1st real change in forklift design in a century!*



# FEATURES

1. **TRAVELS IN ANY DIRECTION!**
2. **ALL ATX-Series** forklifts are 4 Wheel Drive
3. AC motors, brushless, maintenance free
4. Self-lubricating wheel bearings
5. Transmissions/sealed for life
6. Dash Display with extensive diagnostics system and built-in Battery Power Indicator
7. Push-Button Speed adjustment (Go sloooooow, too!)  
Operator selectable performance modes:
  1. Creep
  2. Slow
  3. Normal
  4. Fast
8. ATX-Series can climb out of floor holes with ease!
9. Travels forward or reverse up to 7.2 M.P.H. and sideways up to 3 M.P.H. (**Higher speeds available**)
10. The RH JOYSTICK: traction control
11. The LH JOYSTICK lift / tilt and auxiliary functions

Rotates 360° in its own footprint,

*But why should you have to turn if you don't want to?*

Ask salesperson about our **NEW** state-of-the-art **REVOLUTIONARY** Features!

**AIRTRAX Corp.**  
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**JOYSTICK Controls**



**HYDRAULICS** ain't what they used to be!

# *ATX-3000 / ATX-6000 cutting edge technology!*



*Why should I have to turn, if I don't want to!*



*ATX SERIES SIDEWINDER Forklifts 3000 through 6000 pound capacities, scheduled for delivery to consumers everywhere.*

***SEE SPECIFICATIONS***

*ATX- SERIES (Omni-Lift) 4 wheel drive, Omni-technology - CURRENTLY AVAILABLE in 3000 POUND CAPACITY - Check for estimated delivery dates for 4-6,000 pound capacity machines.*

***AIRTRAX, Material handling for the 21st century!***

# Airtrax ATX-3000

## Product Features

**Airtrax ATX-3000** industrial forklifts excel in applications requiring tight maneuvering or transporting long loads sideways through standard sized doors or narrow aiseways. The ATX's unique, Omni-Direxional movement allows it to travel in all directions thus making it an ideal vehicle to work in tight spaces where turns are not possible and finite control is a must. The truck features 48 volt transistor controls with state-of-the-art technology, infinitely variable travel, lift and lower speeds, excellent visibility, ergonomic controls and operator comfort.

### Drive Units

Four, separately driven drive units give the ATX-3000 unique Omni-Direxional movement. The double reduction drive unit gears operate in a sealed, synthetic lubricant bath, are adjustment free and have rotating parts mounted on precision tapered roller bearings. The drive units are a robust, very low backlash design. Each drive unit is totally enclosed and is directly gear driven by it's own AC drive motor. The motors are brushless with bearings that are greased for life. The entire drive unit and motor is basically maintenance free.

### Electronic Controls

Each AC drive motor is separately controlled by it's own transistor controller which operates quietly and smoothly. The controllers are mounted on large heat-sink fins mounted into air ducts providing optimum cooling via fresh air blowers and exhaust fans. The controllers are sealed against moisture and incorporate simple wiring and heavy duty cable connections. The transistor controllers are controlled by a separate Canion CAN Bus processor which monitors input from the operator's controls and truck operating conditions. Additional inputs from lift height sensors and the instrument panel's Push-Button performance selectors provide safe and smooth operation for all travel and lift height applications. Speeds are automatically reduced when traveling sideways or when the mast is elevated.

### Instrumentation

The instrument panel is located in the center of the cowl for good visibility by the operator. The panel displays hour meter and battery discharge condition and has warning lights to indicate brake and seat belt status, service status and

motor/controller overtemp. Extensive diagnostic codes are also displayed to aid in troubleshooting. Turtle/Rabbit buttons enable the operator to select from four performance modes of the traction function that best matches the application.

### Operator's Controls

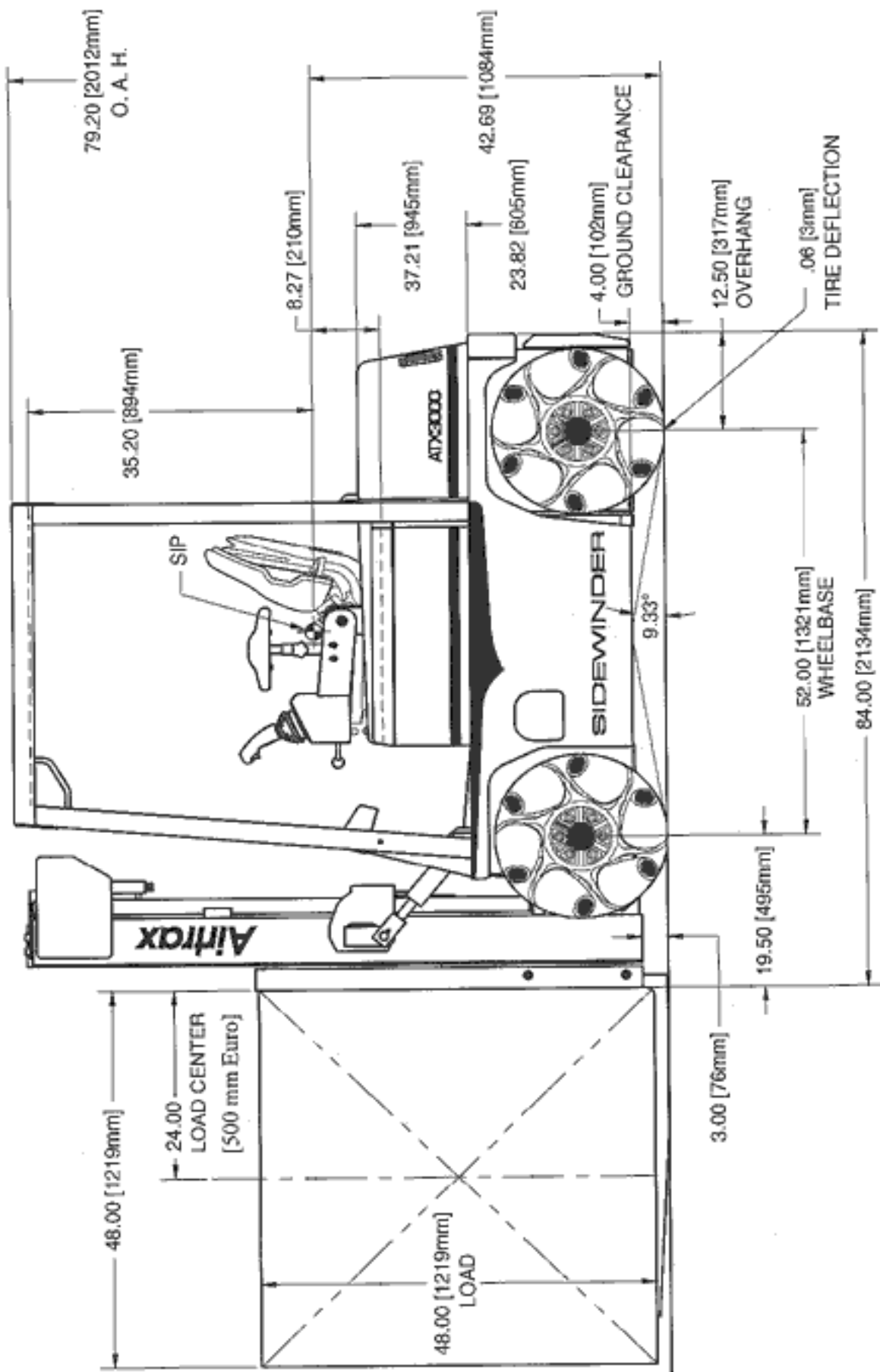
Two joysticks are provided to operate all traction and hydraulic functions. The traction joystick controls speed, acceleration, direction, emergency brake and horn. The joystick moves in all directions in addition to rotating clockwise and counterclockwise to provide infinite controllability in all directions and all speeds. A thumb-activated lever sounds the horn and a trigger activates the brake. The hydraulic joystick controls lift, lower, tilt and auxiliary functions. A large, red emergency disconnect switch is located near the right-hand joystick to allow the operator to quickly shut down the truck in an emergency situation.

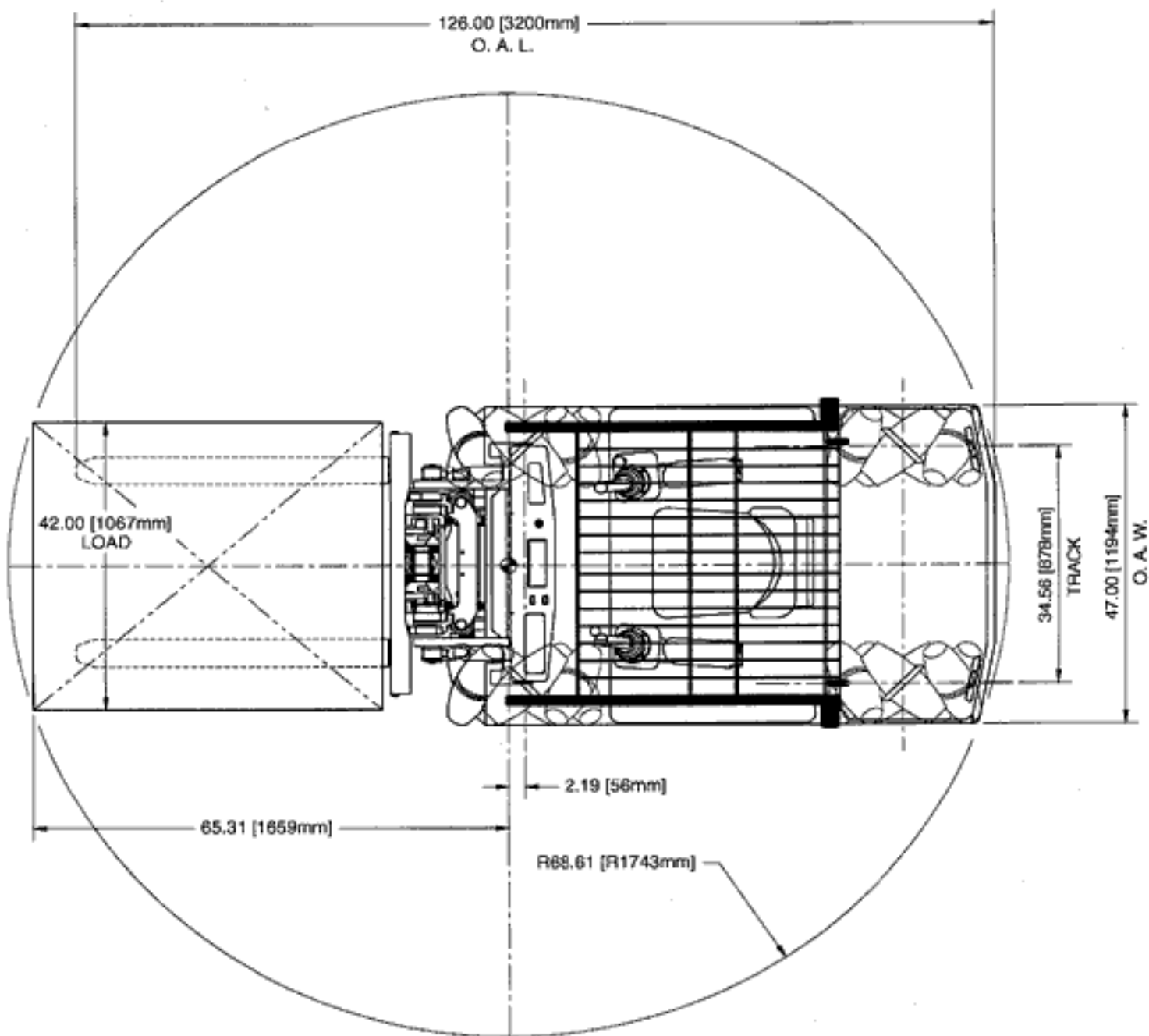
### Hydraulics

Hydraulic power is provided by an AC motor identical to the drive motors and is brushless and maintenance free. This motor directly drives a gear pump that supplies oil flow to the electro-hydraulic, proportional control valve. The standard three-function valve assembly controls lift/lower, tilt and one auxiliary function. A four-function valve assembly is available as an option. All of the hydraulic components including the reservoir are located close to each other on the left side of the truck for a clean, serviceable and simplistic installation. The hydraulic motor is controlled by it's own transistor controller via the right-hand joystick for smooth control of all hydraulic functions.

### Brakes

Spring applied, electrically released brakes are mounted to the input shaft of each transaxle and are automatically disengaged or applied by operation of the traction joystick. Emergency braking is achieved via use of a trigger on the traction joystick or the Emergency Disconnect switch. No foot pedals or hydraulic brakes are required. Normal braking, while traveling, is accomplished electrically via the motor controller's regenerative braking feature.





# ATX-3000

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## Product Features

### Operator Comfort Features

The operator's compartment is comfortable and uncluttered due to the unique joystick design which eliminates many of the controls found on conventional lift trucks such as; brake and accelerator pedals on the floor, separate hydraulic control levers for each function, directional levers, park brake levers and steering wheels. The joysticks are ergonomically designed for easy use and intuitive operation. Adjustable armrests are conveniently located for comfortable joystick operation. The left-hand joystick carrier arm swings up and out of the way for easy operator on/off the truck. Standard vinyl suspension seats provide adjustments for fore/aft, seat back angle and operator weight for maximum operator comfort. The seat includes seat belts for operator safety. High visibility is provided through the mast and overhead guard. Safety and warning decals are provided for operator and pedestrian safety.

### Drive Wheels

The unique design of the four 21x12, independently driven drive wheels enable the ATX's Omni-Direxional capabilities. Each wheel is directly driven by individual transaxles. The wheels consist of a large, heavy-duty hub with 12 uniquely designed polyurethane rollers. The wheel and roller design provides the Omni-Direxional movement of the vehicle based on the speed and direction of each wheel as determined by the operation of the traction joystick. Each roller incorporates bearings that do not require periodic greasing or maintenance under most conditions. Since each roller rotates freely, scrubbing against the floor is minimized while turning or moving sideways.

### Masts

High visibility masts are provided in two and three stage configurations with ample free lift depending on the mast configuration. The heavy-duty mast sections have precision rollers top and bottom which are adjustable. Forks are made from heat treated, forged steel.

### Standard Features

- 48 volt power
- Omni-Direxional operation
- Variable speed transistor traction control
- Variable speed transistor hydraulic control
- Electric horn
- Key switch
- Emergency disconnect switch
- Full instrument panel with diagnostics and BDI
- Four Rabbit/Turtle performance modes
- High visibility overhead guard
- Vinyl suspension seat
- Arm rests (left/right height adjustable)
- Joystick traction and hydraulic controls
- Maintenance free, brushless AC motors
- Three-function hydraulic control valve assembly
- 77" 2-stage limited free lift mast
- 42" forks

### Options

- Various mast types and heights
- Various fork lengths from 36" to 72"
- Cloth suspension seat
- Headlights, mast or OHG mounted
- Front/Rear work lights
- Strobe lights
- Stop, tail, back-up lights
- 12 volt DC to DC converter for light groups
- Four-function hydraulic control valve assembly
- Factory Cascade attachments; sideshifter, fork spreader, fork positioner, rotating clamp and clamp
- Bottler's tilt (10 degrees forward)
- High overhead guard (83")
- Tow hitch
- Manual brake release towing
- Tie down/lifting eyes
- Reflective decal and stripe package
- Alternate traction/hydraulic joystick location.

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