

 **TOYOTA**

**INDUSTRIAL EQUIPMENT**



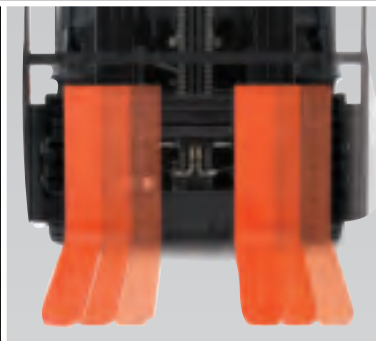
4,000 - 6,500 lbs

**4 - WHEEL  
ELECTRIC  
AC POWERED**

# PERFORMANCE

- ▶ **AC powered system** delivers more runtime per battery charge and maintains a higher level of performance throughout the work cycle.
- ▶ **AC drive motor** offers quicker acceleration, higher top speeds and smoother direction changes to help operators move more pallets per hour.
- ▶ **AC lift motor** features fully variable lift/lower control for fast, precise pallet retrieval or positioning.
- ▶ **On-demand, full hydrostatic power steering** offers low-effort control while providing precise maneuverability and load handling in confined work areas.
- ▶ **Programmable performance parameters** may be customized through the digital display to adjust to a variety of job applications and operator skill levels.
- ▶ **Momentary hold and controlled descent** feature maximizes lift truck control by regulating rolling speed when the accelerator pedal is released on a grade.
- ▶ **Power keep function** allows the 8-Series' AC motors to continue to perform at productive levels even when the battery charge is low.

**AC motors** offer greater operating efficiency than equivalent-sized DC motors, resulting in increased runtime per battery charge and higher truck utilization rates.



▶ **Tuning mode** is used to make fine adjustments to customize the performance parameters for individual operators and varying applications.

▶ **Integral sideshifter** option minimizes truck movements for storing and retrieving loads, increasing overall operator efficiency.

▶ **Integral sideshifting fork positioner** option further enhances operator productivity.

▶ **Rear assist grip with horn button** option enhances reverse travel comfort, visibility and productivity by allowing the operator to maintain control of the steering wheel at all times.

▶ **Touch-pad, keyless entry system** with password protection option allows only designated personnel to operate the equipment.



◀ **One-way automatic fork leveling**

consistently levels the forks parallel to the ground, improving operating efficiency and productivity while reducing product damage.

◀ Starting from a back tilt position, the one-way automatic fork leveling feature positions the forks horizontally to the floor with the simple push of a button on the tilt lever, allowing more efficient load handling.

◀ **Two-way automatic fork leveling**

on the mini-lever and joystick control options allow the operator to level the forks from both the back tilt and forward tilt positions.



# SAFETY

Still leading the industry in safety technology, no other lift truck brand offers a system comparable to Toyota's System of Active Stability™ (SAS). According to OSHA, lift truck accidents are the second-leading cause of fatalities in the private sector, with highway vehicles being the first. With more than 150,000 SAS-equipped Toyota lift trucks in operation in the U.S. and Toyota's proven record of lift truck safety, you can feel confident knowing that your operators are utilizing equipment that sets the industry standard in safety.

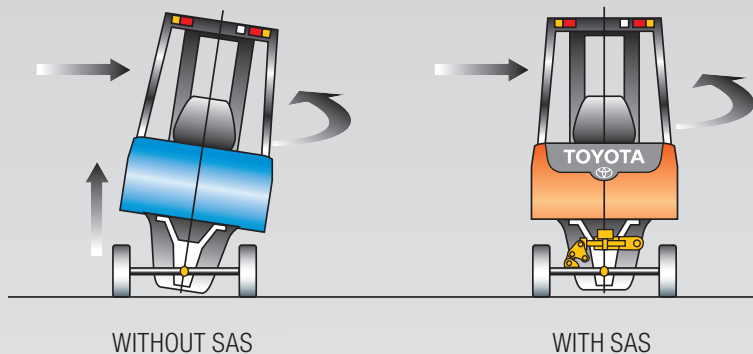


- ▶ **Toyota's System of Active Stability™ (SAS)** electronically monitors and controls the lift truck's operations to help reduce the risk of tipovers. SAS is composed of two systems: the **active control rear stabilizer** and the **active mast function controller**.

▲ In 1999 Toyota introduced the world's first and only System of Active Stability™. No other lift truck safety system comes close.

## Active Control Rear Stabilizer System

- ▼ Toyota's SAS uses patented technology to sense various factors that lead to potential lateral instability. When those conditions are detected, the SAS instantly locks a hydraulic cylinder on the rear steer axle, changing the lift truck's stability footprint from triangular in shape to rectangular. The resulting increase in stability reduces the likelihood of a lateral overturn.



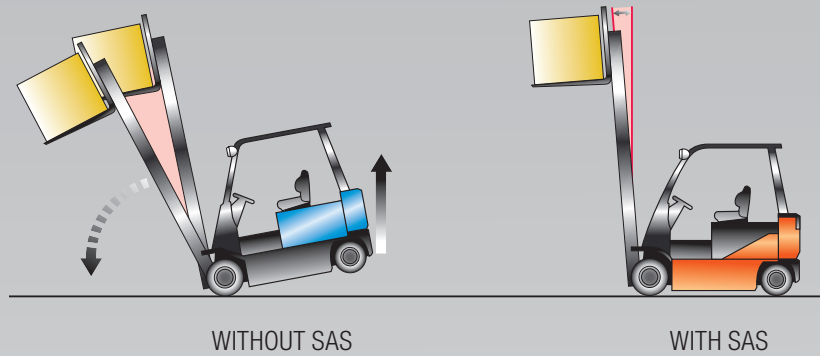
When it senses instability, ▶ SAS instantly engages the **Swing Lock Cylinder** to stabilize the rear axle, creating the lateral stability needed to help reduce the risk of lateral tipovers.



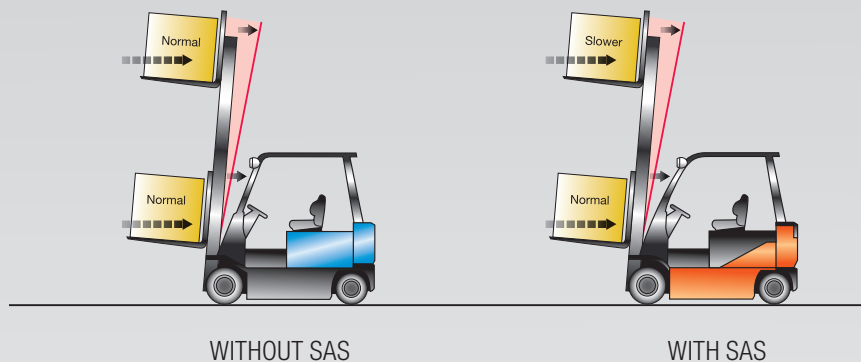


## Active Mast Function Controller System

- Similar in operation to the active control rear stabilizer, the active mast function controller system uses the same patented technology to sense various factors that lead to potential longitudinal instability. When the SAS controller senses potential longitudinal instability, two systems are activated to help reduce the chances of forward or rearward tipovers: **forward tilt angle control and rear tilt speed control.**
- Forward Tilt Angle Control** will sense load weight and mast height, then automatically override the operator's manual control and limit forward tilt to decrease the chance of spilling a load or tipping the lift truck forward.



- Rear Tilt Speed Control** utilizes the same load and mast height sensors to govern the mast's reverse tilt speed to half, thereby decreasing the chances of spilling unsecured loads or tipping the lift truck backward.



## DURABILITY

▶ **Toyota AC motors**

are designed and built to endure the toughest working conditions.

▶ **Durable, curvilinear bolt-on overhead guard**

provides maximum operator protection with improved entry/exit and load visibility.

▶ **Overhead guard pillars**

are designed to enhance the frame's rigidity and help withstand tough applications.

▶ **Structurally rugged mast channel design**

provides maximum load capacity retention by limiting mast deflection.

▶ **Reinforced load backrest extension**

with recessed fasteners reduces the potential for product damage.

▶ **Tilt cylinder protection boots**

are available to reduce hydraulic leaks by limiting cylinder rod scouring and seal damage caused by dirt accumulation.

▶ **Plate-iron front fenders**

are used to help withstand tough applications.

▶ **Thick, one-piece battery wall**

provides durability against battery movement.

▶ **Fully-stamped steel side panels**

are thick to help withstand the harshest environments.





**Rear combination lights** ◀  
are mounted high on the overhead guard for improved protection.

**Long-life LED headlights and rear combination lights** ◀  
are available for added reliability.

**Rust proof specification** ◀  
option provides additional plating to critical areas of the truck to further protect against rust buildup in humid and salty environments.

**Main Central Processing Unit (CPU)** ◀  
is mounted high on the right side step to minimize dust, debris and water intrusion.

**Controller Area Network (CAN-bus)** ◀  
communication technology provides precise, fast and reliable control of all truck functions with fewer electrical components.

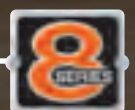
**Thermal protection monitor** ◀  
offers excellent protection to the drive and lift motors for increased reliability and durability in demanding applications.

**Moisture-resistant electrical connections** ◀  
are less susceptible to water intrusion and corrosion caused from pressure washing and high-moisture, humid environments.

**Plate-iron battery compartment hood** ◀  
provides maximum durability in the most demanding applications.

**Heavy-duty asbestos-free brakes** ◀  
are self adjusting and provide responsive and consistent braking power.

**Regenerative braking** ◀  
improves overall efficiency and prolongs brake component life.



# ERGONOMICS



- ▶ **High mount key switch and parking brake release lever** have been strategically placed to minimize the need for an operator to lean forward in the seat.

- ▶ **Headlights** help increase operator's field of vision in dark environments.

- ▶ **Curvilinear overhead guard legs** provide a wider opening for operator entry/exit.



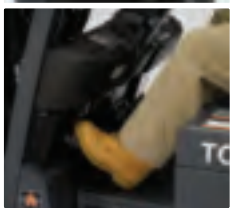
- ◀ **Electric shift lever** offers easily accessible fingertip control for fast and easy directional changes.
- ◀ **Automotive style light switch and turn signal levers** are integrated into the slim profile steer column for easy accessibility and simple operation.



- ◀ **12-inch long dual operator assist grips** have been designed to meet the needs of varying operator sizes and are in-line with the overhead guard pillars for improved operator peripheral vision.



- ◀ **Low profile front cowl** results in enhanced forward visibility and lessens back strain by reducing the need for the operator to lean forward to view load and fork tips.



- ◀ **Foot-activated parking brake** further lessens operator back strain by reducing the need to lean forward to activate and disengage the parking brake. Foot brake location also eliminates clutter from cowl area, enhancing forward visibility.

- ▶ **Overly spacious legroom** provides unsurpassed comfort levels throughout the operator's work shift.

- ▶ **Heavy-duty, nonslip floor mat** adds to this comfort by minimizing noise, heat and vibration.



- ▶ **EZ Pedal** option allows operators to quickly and easily change travel direction without removing a hand from the steering wheel or hydraulic controls.

- ▶ **Mini-lever or joystick hydraulic controls with Ergo-Shift** feature a three-way adjustable armrest to enhance operator comfort and productivity.

- ▶ **Two-way auto fork leveling** is standard with these options.







▲ **Cowl-mounted hydraulic levers** are ergonomically situated for improved operator comfort and unobstructed entry/exit from the right side of the truck.

▶ **Slim-profile steer column**, which features a small 11.8-inch diameter steering wheel and optional steer assist knob, reduces operator arm and shoulder strain. The small diameter wheel also provides greater legroom and wider service access and simplifies operator entry/exit.



▶ **Rear assist grip with horn button** option enhances reverse travel comfort and productivity by allowing the operator to maintain control of the steering wheel at all times.



▶ **Ultra-comfort vinyl full suspension seat with 4-way adjustability** provides unequalled operator comfort.



▶ **Ultra-comfort cloth full suspension seat with 4-way adjustability** is also available for use in hot, humid applications and for added resistance against tears and punctures.

▶ **Non cinching seat belt** provides additional comfort in applications requiring frequent reverse travel operations.



◀ **Swivel-seat** option rotates and locks 16 degrees to the right, allowing the operator to assume a more comfortable posture and expanded range of visibility when traveling in reverse over long distances. Seat also will rotate 17.5 degrees to the left, facilitating easier entry/exit for the operator.

◀ **On-demand, full hydrostatic power steering system** provides smooth, responsive operation while isolating vibration and shock from the operator's hands, helping to reduce operator fatigue.

◀ **Synchronized steering option** automatically corrects misalignment between the angle of the steering wheel and the turn angle of the steer tires. This maintains consistent steering wheel position for improved forward visibility and hand placement during operation.

◀ **Low, wide entry-steps** feature a heavy-duty punch-plate surface for confident footing when entering/exiting the lift truck.



▲ **Oversized cup holder and amenity trays** have been designed for today's large beverages and various work tools.



▶ **Tilt steer column and seat travel adjustability** have been expanded to improve operator comfort levels, regardless of operator size.



# VISIBILITY

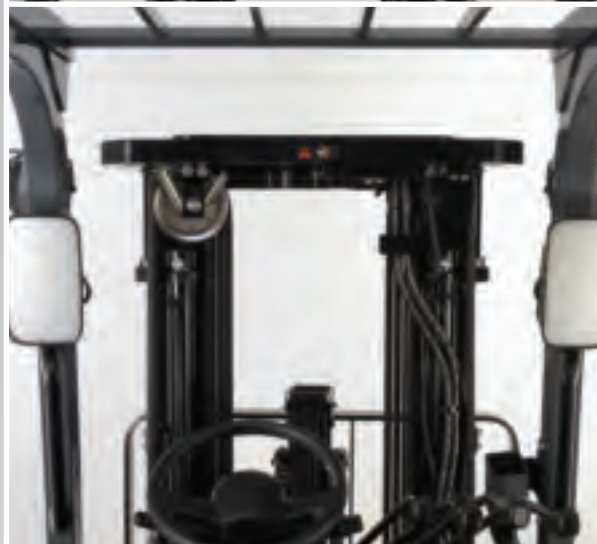
## Upward Visibility ▶

- Overhead guard bars configured front to back
- Angled front overhead guard tie-bar



## Forward Visibility ▶

- Improved mast hosing
- Wide-view mast design
- In-line operator assist grips
- Mini-lever and Joystick control options



## Fork Tip Visibility ▶

- Repositioned, lowered free-lift cylinder
- Low profile cowl with sloped dashboard
- Uncluttered dash
- Load backrest extension with angled tie-bar
- Integral sidsifter option
- Slim-profile steer column
- Small diameter, 2-spoke steering wheel





▲ **Rear Visibility**

- Swivel seat option provides improved rearward visibility.
- Low profile counterweight
- High mount rear combination lights



# OPERABILITY

- ▶ **On-demand, full hydrostatic power steering** provides quiet, responsive operation, helping to reduce operator fatigue.
- ▶ **Lift-height and load-sensing acceleration control<sup>1</sup>** feature suppresses the lift truck's acceleration rate if it detects the operator is attempting to suddenly drive off with a load at a high lift height.
- ▶ **Lift-height and load-sensing vehicle-speed control<sup>1</sup>** feature limits the lift truck's maximum travel speed in the event the operator attempts to travel while carrying a load at a high lift height.
- ▶ **Momentary hold and controlled descent** feature allows the lift truck to be started on an inclined surface without rolling backward.
- ▶ **Small diameter, 2-spoke steering wheel** with less turns lock-to-lock reduces operator arm and shoulder strain to enhance lift truck operability.
- ▶ **Adjustable headlights with guards** help increase field of vision in dark environments.



▶ **Travel direction and mast tilt indicators** allow the operator to identify the current direction of travel and mast angle before beginning lift truck operation.

▶ **Low-speed setting** feature can be used to limit the lift truck's maximum travel speed at the touch of a button to a preset value for those applications that require varying travel speeds.

▶ **Orange seat belts** are available to assist managers in monitoring operators' use of seat belts from a distance.

▶ **Operator Presence Sensing System (OPSS)** prevents operators from using the hydraulic functions or driving the lift truck when they're not seated in the proper operating position.

▶ **LED headlights and rear combination lights** are available and mounted high on the overhead guard to make stops and turns highly visible in the work place.



▶ **Strobe light and smart alarm** options signal pedestrians that a lift truck is operating nearby.

<sup>1</sup> Toyota's travel speed/acceleration control system option includes the lift-height/load-sensing acceleration control and lift-height/load-sensing vehicle-speed control features.



# PROGRAMMABILITY

- ▶ **Multifunction digital display** with illuminated icons informs the operator of vital operating information for maximum uptime.
- ▶ **Performance parameters** may be customized through the digital display to adjust to a variety of job applications and operator skill levels.
- ▶ **Multifunction hour meters** allow for planned maintenance scheduling and the ability to perform time and motion studies.
- ▶ **Programmable battery discharge indicator** with lift interrupt enables customization of the truck's battery discharge settings to closer match the battery's discharge rate, helping to maintain proper battery life.
- ▶ **Auto-Off System** is seat-activated and programmable to conserve battery power.
- ▶ **Auto height select** option allows operators to program the lift truck to automatically stop the forks at pre-determined rack heights for maximum productivity.
- ▶ **Power select indicator** displays the lift truck's performance setting currently in operation by highlighting either the S (Savings), P (Performance) or H (High Performance) mode.

## DIGITAL DISPLAY

- ▶ **Interactive, multifunction digital display** provides instant access to virtually every aspect of the lift truck's performance and operating systems.

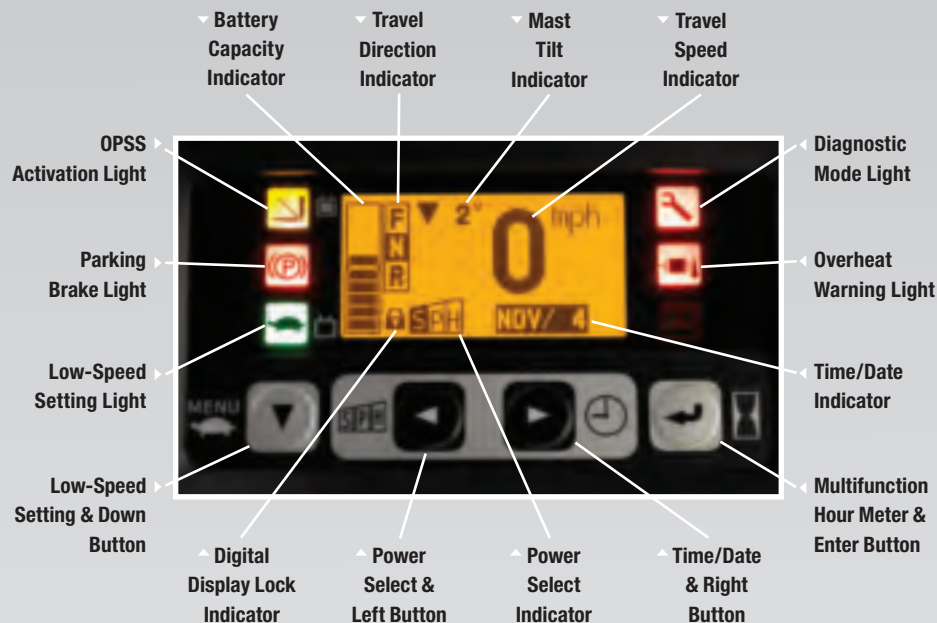
### HOUR METERS



- Key-On Time
- Lap Time



- Travel Time
- Material Handling Time
- Travel & Material Handling Time
- Seat-On Time



### HOUR METERS



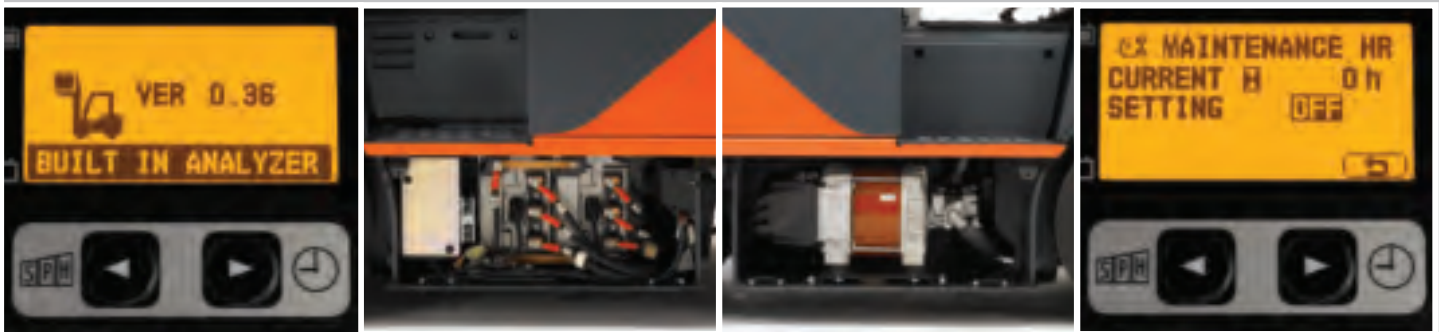
- Odometer
- Trip Distance



- Maintenance Interval Time

# SERVICEABILITY

- ▶ **AC Drive and Lift Motors** have no brushes, springs, commutator or wearable parts to service and replace, resulting in fewer, quicker and less expensive maintenance needs.
- ▶ **On-demand, full hydrostatic power steering** is controlled through the AC hydraulic motor system, eliminating an additional motor to service.
- ▶ **No-tool floorboard** lifts out in seconds for fast, easy access during daily operator checks.
- ▶ **Main Central Processing Unit (CPU)** is located high on the right side step for ease of service.
- ▶ **Analyzer Mode** displays the status of the electrical system and allows instantaneous access to information on errors detected by the controller.
- ▶ **Battery roll-out and slide-out** options with redesigned battery retaining system are available for easy battery replacement.



▶ **Self-diagnostics with built-in analyzer** capabilities are offered through the multifunction digital display, eliminating the need for a hand-held analyzer.

▶ **Left-side panel** provides reliable protection and easy service access to the drive and hydraulic motor controllers.

▶ **Right-side panel** provides reliable protection and easy service access to the hydraulic motor.

▶ **Planned maintenance hour meter** notifies operators of the need for routine maintenance and service via the digital display monitor. The service intervals are programmable.

▶ **Brake fluid level check** is conveniently mounted on the cowl for quick reference to expedite routine maintenance.



▶ **Easy-lift battery hood** features a convenient, wide-access design and an assist damper that automatically holds the hood open to nearly 90 degrees for easier battery maintenance and replacement.



- ▶ Thanks to advanced technology and a **world-renowned production system**, Toyota lift trucks are known for their **quality, durability and reliability**.
- ▶ Whether you plan to purchase a single lift truck or add to your fleet, our team of dealers and National Account Managers specialize in meeting your every need.
- ▶ Toyota lift trucks are backed by proven product support from an **industry-leading network of dealers**, who offer a broad range of resources including: factory-trained service technicians, **Genuine Toyota Parts**, **Toyota Certified Used Lift Trucks**, and flexible leasing and financing packages through **Toyota Financial Services**.\*
- ▶ When you combine this level of support with the operability, reliability and durability of Toyota lift trucks, you receive one comprehensive, value-added package.
- ▶ For more information or to locate your authorized Toyota Industrial Equipment dealer, call **1-800-226-0009** or visit **www.toyotaforklift.com**.

*\*Available to qualified buyers. See participating dealers for details.*



◀ Most of the Toyota lift trucks sold in the United States are manufactured at TIEM, a zero landfill facility in Columbus, Indiana.

- ▶ The proud and dedicated Toyota staff in Columbus, Indiana are building what we consider the most advanced lift trucks available in the market today.

**1 800 226 0009**

**toyotaforklift.com**



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