

TCM



ELECTRIC SIT-DOWN COUNTERBALANCED TRUCKS

TCM PRO-CB

3,000 - 6,000 lbs.

Class 1 - Cushion Tire Type



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The All-New TCM PRO-CB Four Wheel Electric Lift Truck - The New Benchmark in Class 1 Design

The lift truck pioneer since 1949, TCM used over 58 years of experience when designing the new TCM PRO four wheel electric lift trucks. These new trucks are 100% AC powered and are engineered to be rugged and dependable in your daily operations. TCM PRO trucks deliver excellent productivity and high returns on your lift truck investment. For the ultimate in performance, count on **TCM PRO!**

Reliable

All TCM lift trucks have earned their reputation for legendary reliability. In the TCM PRO-CB, brushless AC motors and solid state controllers deliver dependable power with very low maintenance. TCM engineered-and-built drive units and masts are rugged, precise, and give long service life.

Powerful

With 100% AC power, TCM PRO-CB lift trucks have higher travel and lifting speeds as well as superior starting and grade climbing abilities. Main controller setting can be adjusted: speeds and levels of power output.

Productive

TCM PRO-CB lift trucks provided with AC motors and systems that works for regenerative battery power when accelerator pedal is released, braking and switch-back direction changes. The regenerative system performs to add valuable extra operating hours, and assists for longer brake life.

Comfortable and Safety

Operator comfort and safety features include approximately 20% more floor space(4,000 - 6,000 lbs.), a wide view mast designed for maximum visibility, smooth controls for precision operation, a standard adjustable suspension seat with restraint system, an overhead guard designed for easy entry, and a comprehensive integrated interlock system for maximum safety.



3,000 lb.
FCB15-7



4,000 lb. and 5,000 lb.
FCB20-7 FCB25-7 FCB25-7S (STRETCH TYPE)



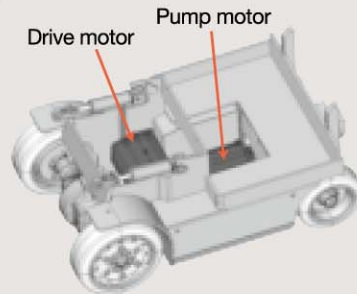
6,000 lb.
FCB30-7

note: 5 models in total 3,000 - 6,000 lbs.

UPGRADED BASIC PERFORMANCE

1 100% AC Power and high productivity

The AC drive motor and AC pump motor work together with the solid state controller to give you outstanding power and performance on the job. These motors are compact, reliable, virtually maintenance-free, and also give superior battery regeneration to extend run times.



2 Faster travel and lifting speeds

Choose between three power modes to suit your specific work application. Choose Super mode for fastest production, Economy mode for longest run time, or Power mode for an optimum blend of speed and operating run time. Modes are displayed on the easy-to-read LCD panel.

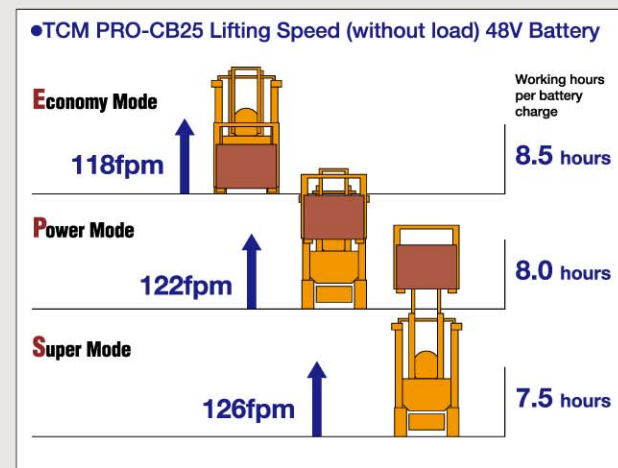
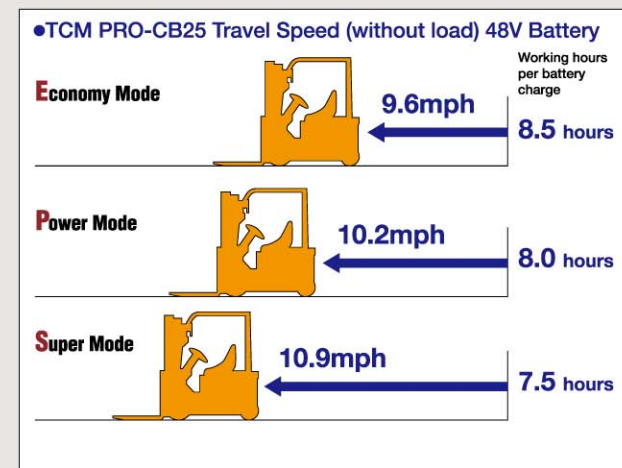
FCB25A4
48V Battery
DC Super Mode

TCM PRO-CB25
48V Battery
AC Super Mode

Travel Speed: without load	9.9mph	▶ 10.9mph
Lifting Speed: without load	122fpm	▶ 126fpm
Gradeability: with load	12.5%	▶ 17%



3 Power mode comparisons for travel and lifting speeds



4 Reduced outside turning radius

TCM PRO-CB lift trucks are compact and designed with a reduced outside turning radius to operate easily in tight aisles.

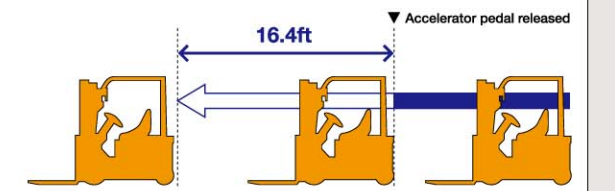
FCB25A4
72.5 in

TCM PRO-CB25
70.5 in

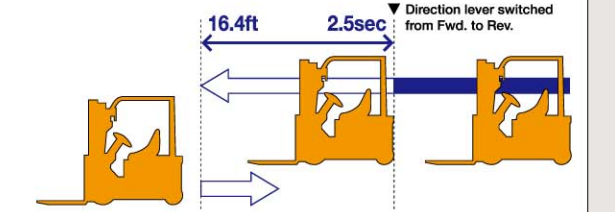


5 Superb maneuverability and productive

●TCM PRO-CB25 upon accelerator release (48V battery)



●TCM PRO-CB25 upon direction reversal (48V battery)



SUPERIOR OPERATING COMFORT AND CONTROL

1 Easy operator access

Operator comfort is enhanced with numerous features: Lower height wider step with grip, rounded bonnet corners, assist-handgrip and redesigned overhead guard front pillars assist for easy access.



2 Increased larger floor space ever designed

The wide-open floor space has been increased approx. 20%(4,000 - 6,000 lbs. models) by new ergonomics design for easy access and all-day operating comfort. The floor with deluxe floor mat, and dash are free from catch points for improved Operator safety.



3 Multifunctional suspension seat with interlock-switch

Features include reinforced operator support, reduced vibration, operator weight balance adjustable, forward and backward reclining, an utility rear pocket and a retractable seat belt. And interlock system (travel/loading) has been provided as a standard equipment.



4 New compact steering wheel

The steering wheel diameter has been reduced to less than 12 inches. This makes vehicle entry and exit easier and delivers quick responsive handling.



5 Adjustable tilt steering column

The steering column tilt is adjustable to bring the steering wheel into an optimum position for a variety of operators. This reduces fatigue and increases operator productivity.

6 Ergonomic controls and instrumentation

The travel direction switch is positioned in easy reach for fast maneuvering. The handbrake has been shrouded to eliminate pinch points. The warning horn button is located on the steering wheel per automotive convention. The turn signal switch is self-cancelling and contains an integrated switch for the headlights, front combination lights, and rear combination lights. The mast control levers are positioned to reduce fatigue and give smooth responses to allow precise fork positioning. The LCD instrument panel is located close to the controls for quick reading, and its readouts are easily visible even in bright daylight.

SUPERIOR SAFETY DEVICES AND DURABILITY

1 Excellent forward visibility

TCM has increased forward visibility on PRO-CB lift trucks by re-located the LCD meter panel at right side of dash board and by lowering the mast cross bar. Also newly installed a smaller steering wheel.



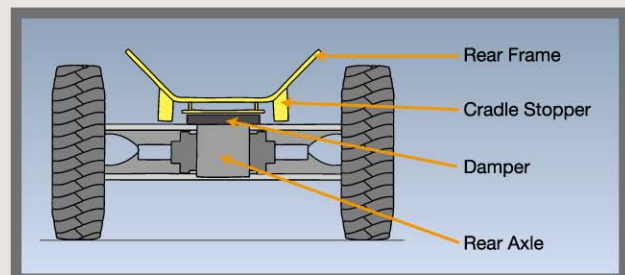
2 High-mounted rear combination lights

Vibration-resistant brake lights, turn signals, and backup lights are easily visible at the top of the overhead guard.



3 Special damper delivers stability and safety (4,000 - 6,000 lbs. models)

In TCM PRO-CB 4,000 to 6,000 pound models, a special damper cushions and stabilizes the steering axle during operation over uneven surfaces. It is simple, depend-able and maintenance-free.



WARNING : This device does not guarantee accident avoidance or prevent vehicle from overturning.

4 Anti-roll back

TCM PRO-CB lift trucks provided with AC motors and systems that works for regenerative braking when released accelerator pedal. The regenerative braking system assists forward moves on inclines.



5 Tilt and lift lock

To prevent unintended mast movements, standard tilt lock prevents the mast from tilting if the operator is not seated, and lift lock prevents the forks from lowering when the key is switched off.

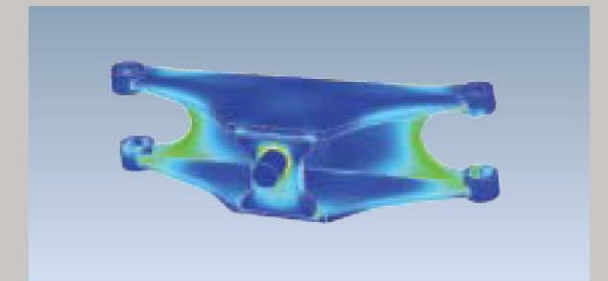
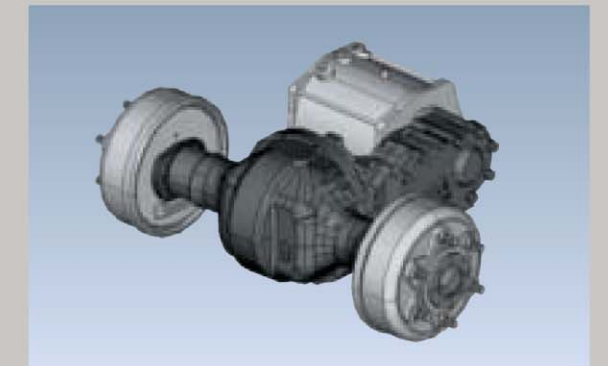
6 Side view mirrors

Side view mirrors are standard equipment.



7 Reliable TCM drive units

Designed for quiet operation and maximum durability, the gear efficiency of these units has been increased to 94%.



8 TCM steer axles

This proven TCM design has been strengthened and made more durable for demanding applications. More robust components and construction improves handling and control.



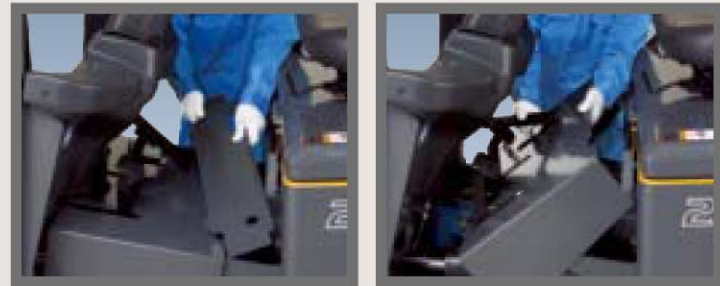
9 TCM masts

These stronger designs have revised cross members and tilt cylinder attachment points to increase rigidity, provide better visibility, and give smooth, dependable operation for safer load handling.

SIMPLE AND EASY MAINTENANCE

1 Easy-open floorboards

Tool-free floorboard removal makes inspection and maintenance tasks quick, easy, and more cost effective.



2 Easy access control boards

The VTM unit and main controller are protected and secure behind heavy-duty covers, yet are easily accessible for adjustments.

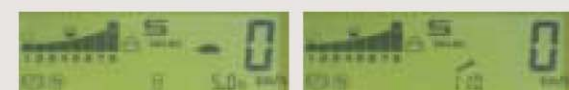


VTM Unit

Main Controller

3 On-board self diagnostics

The LCD panel displays all operating systems and more than 40 failure codes for fast troubleshooting. Nearly all checks can be made without using separate meters.



Failure code

Battery capacity indicator



Parking brake indicator

Overheat warning indicator

Travel speed limit indicator

4 AC power reduces maintenance cost

AC motors have no brushes to replace, and there are no directional contact tips to replace. The solid-state MOS-FET invertertype controller delivers reliable operation.



5 Over-discharge prevention system

When the battery is 80% discharged, the LCD panel blinks to alert the operator to charge it or change to a fresh battery. In addition, the travel and lifting speeds are automatically restricted to extend the remaining charge. This also extends battery service life by preventing total discharge.



OPTIONAL EQUIPMENT

1 Fingertip control with armrest

Fingertip controls with superb designed armrest reduce operator fatigue in high cycle operations.



2 Synchronized steering mechanism

This mechanism performs to synchronize the position of steering-knob and the angle of rear wheels. The steering-knob is returned to the original position when a lift truck is traveling on a straight way.

3 Auto power-off system

Saving the battery energy this system shuts off the main power automatically when the lift truck is not operated for 15 minutes even with the key is switched on.

4 Battery roll-out

Battery rollers make change-outs easy and fast multi-shift operations. The power connection plug is located outside the battery box for convenient charging if the battery is not removed.

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- TCM retains the right to change these products and specifications without incurring any obligation relating to such changes.
- These products and specifications are subject to change without notice.
- Photos and illustrations may or may not include optional equipment and accessories.
- Features and specifications may vary depending on markets.



ISO 9001 Certification
(TCM Shiga Plant)



ISO 14001 Certification
(TCM Shiga Plant)

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