



VERTICAL MAST LIFTS



VERTICAL MAST LIFTS:

SIMPLY TRANSFORMED

Skyjack's Next Generation Vertical Mast Lifts provide a quiet and versatile package with zero emissions. With a new mast design, AC electric drive, drivable at full height, and less hydraulic connection points, the SJ12 E, SJ16 E and SJ20 E boast increased duty cycle expectations.

Exceptional maneuverability and Skyjack's unique traversing platform make these Next Generation masts an ideal choice for a wide range of indoor and outdoor construction, maintenance, and industrial applications.



Rental companies and major contractors face increasing demands for sustainability information. Skyjack has introduced its **ECO** mark to support our customers by providing products that deliver benefits in environmental performance and long-term sustainability.

Skyjack's next generation of vertical masts **ECO** benefits include:



- 15% operational carbon saving compared to previous model



- Up to 30% improvement in duty cycle



- ZERO emissions



- <70 dB inherently quiet machine operation (excl. alarms)
- White noise/broadband alarms - *optional*



- 90% recyclable (by weight)



- 70% less hydraulic connections – reduces leak potential
- ECOTRAY leak containment - *optional*
- Bio-degradeable hydraulic oil - *optional*



- Telematics – remote diagnostics reduces site visits (operational carbon foot print)
- Battery Management system – improves battery life



The QR code located on the side of the scissor provides easy access to machine-specific information, for example; emergency lowering procedure, visual pre-check guide, familiarization videos, via any smart phone (No app or password required).

With full **ELEVATE** telematics and **BMS**, this can be further enhanced with addition data such as: battery charging guide, battery life remaining, and active fault codes, etc.



SCAN QR CODE FOR DEMO

OPTIONAL FEATURES



MORE THAN TELEMATICS

ELEVATE provides the actionable insights to make your business more efficient. Skyjack has worked with customers to identify and provide the most important data points that solve day-to-day pain points in rental service and management.

Beyond hours and location provided by basic telematics systems, **ELEVATE** delivers machine specific alerts and analysis which can dramatically reduce unnecessary service calls and trips to site for diagnostic work.

Information specific to Skyjack machines communicated through **ELEVATE** include:

- Ready to operate
- Overload detection and reporting
- True machine utilization (time loaded at height)
- Battery Management System (BMS)*
- CAN data and alerts
- Full data access



ELEVATE BMS* targets the largest cost of ownership on vertical masts by giving rental companies the ability to manage by measurement, and target the cost of battery replacement using accurate and immediate insight into how their batteries are treated in the field.

*Optional. Only available with ELEVATE telematics and not as a standalone option.



SECONDARY GUARDING LIFT ENABLE

- Robust control box shroud provides additional guarding of controls reducing the risk of unintended actuation
- Both joystick enable and secondary anti-tamper enable button must be activated to allow the platform to lift
- Two-handed lift function helps keep the operator's body away from the railings when rising, mitigating the risk of entrapment



Skyjack's approved accessories are designed to add functionality to your machine and convenience for the operator.



Designed with essential machine functionality in mind, ECOTRAY ensures all internal potential hydraulic leaks go into a single pan that's fitted with easily changeable absorbent pads.



ELECTRIC DRIVE PERFORMANCE AND MANEUVERABILITY

Variable speed AC electric drive provides exceptional duty cycles. The fully proportional drive and lift controls, superior drive efficiency, improved controllability, and consistent torque.

- 90° front wheel steering provides zero turning radius and excellent performance and around job site maneuverability
- 25% gradeability and consistent torque
- 35% improvement in drive efficiency
- Reduced charging and power consumption
- Low GVW and wide non-marking tires provide low ground pressures and help protect finished flooring
- Electrically-released brakes, lift/tie down points, makes loading and transportation safe and easy
- Compact size and low weight allow passage through a standard doorway and carriage in a passenger elevator
- Simple, maintenance-free, fixed pothole protection system has no moving parts but allows drive over typical site debris due to improved ground clearance
- Forklift pockets located at the rear with tie down and lift points at rear of machine

NEW MAST DESIGN

The multi-stage hydraulic cylinder and inverted multi-section mast with overlaps to help increase rigidity. The larger section at the top of the design prevents debris ingress.



- Rigid design for smooth operation at height
- Free from any chains, sheaves, or bushings to reduce maintenance
- Top of the mast is now inline with the platform rails, which is beneficial for overhead working, especially drop ceilings

Like previous Skyjack vertical masts, the Next Generation models keep the telescopic mast at the rear which provides a totally unrestricted view from the front facing control box. This layout also moves the steering wheels away from the mast which offers excellent maneuverability with zero inside steering radius.



| | | | | | | | |
|---------------|-----------------|-----------------|--------------|----------------|--------------|---------------|----------------|
| SJ12 E | 18' (5.48 m) | 12' (3.66 m) | 16" (0.41 m) | 30.5" (0.77 m) | 54" (1.37 m) | 74" (1.88 m) | 1 |
| SJ16 E | 21' 6" (6.55 m) | 15' 6" (4.72 m) | 16" (0.41 m) | 30.5" (0.77 m) | 54" (1.37 m) | 74" (1.88 m) | 0 / Optional 1 |
| SJ20 E | 25' 6" (7.77 m) | 19' 6" (5.94 m) | 16" (0.41 m) | 31.5" (0.80 m) | 54" (1.37 m) | 79.5" (2.0 m) | 0 / Optional 1 |



| | | | | | | |
|---------------|--------------|--------------|----------------|----------------------|-----|------------------|
| SJ12 E | 27" (0.69 m) | 36" (0.91 m) | 2 mph (3 km/h) | 2,012 lbs (913 kg) | 25% | 500 lbs (227 kg) |
| SJ16 E | 27" (0.69 m) | 36" (0.91 m) | 2 mph (3 km/h) | 2,054 lbs (931 kg) | 25% | 500 lbs (227 kg) |
| SJ20 E | 27" (0.69 m) | 36" (0.91 m) | 2 mph (3 km/h) | 2,440 lbs (1,107 kg) | 25% | 350 lbs (159 kg) |

† Capacities, and machine weights may differ when options are added. Preliminary specifications at time of printing. Consult your local area sales representative for details. All Skyjack warranties are subject to express limited warranty and all of other related terms, policies and procedures, as amended from time to time. Please refer to www.skyjack.com/warranty-service



TRAVERSING PLATFORM

Robust all steel platform which incorporates a manually operated traversing deck feature which provides 16in of up-and-over capability. This can be released with a simple to use foot pedal, which and can be locked in various positions.

- Easily replaceable mesh flooring gives operators the freedom to see ground level without looking over the side of the machine
- When moved forward into service position, provides full access to base service hatch
- Self-closing full height spring hinged gate provides easy entry into the platform
- Power to the platform provides a power source for tools and eliminates hanging cords
- Lanyard attachment points are provided around the platform



ONBOARD DIAGNOSTICS

Skyjack's standard color-coded and numbered wiring system. Onboard diagnostics allows operators or service technicians to see real-time, easy-to-understand faults in plain, simple language readouts. No plug-in calibration is necessary for day-to-day troubleshooting, including load sensing information.

- New CAN based integrated control system with smart charger provides increased data points (telematics ready)



SIMPLE ROBUST CONTROLS

Removable high strength and impact resistant composite control box that's clear, intuitive, and easy to understand.

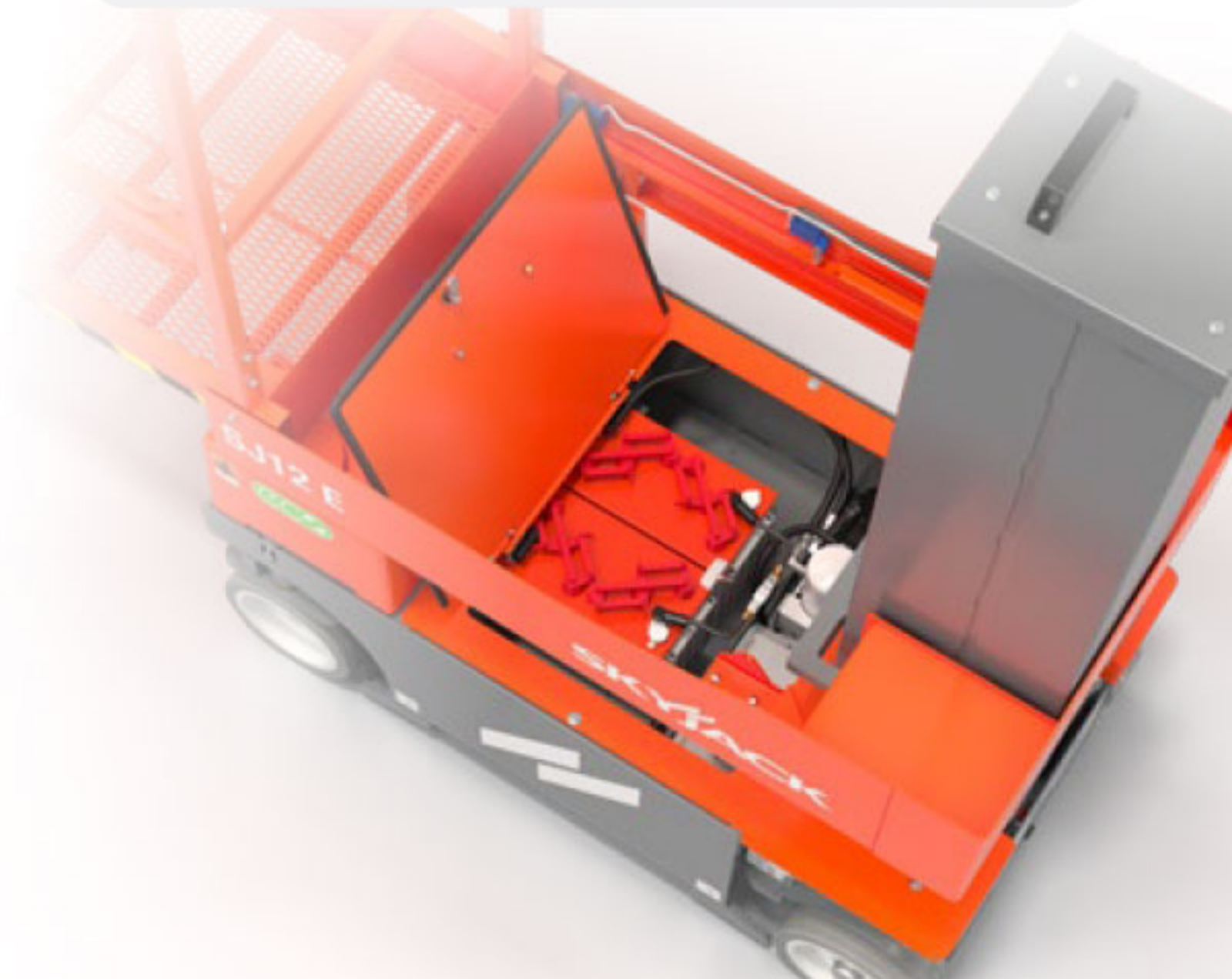
- Integrated shroud with full proportional joystick safety-enable trigger, thumb steer, selector switches, battery level gauge, horn, and emergency stop
- 6ft control cable for ease of walking through entrances or doorways and loading onto trucks
- Interchangeable control box between models (SJ12 E/SJ16 E/SJ20 E)



COMMONALITY, MAINTENANCE AND ACCESSIBILITY

All components are located inside the base, the maintenance hatch provides easy, unrestricted access to all major components and batteries. Commonality of components and approach across the mast range which increases familiarity making it easy to service and maintain.

- 2 x 12V 220Ah deep cycle batteries with quick fill caps for easy top-up and maintenance
- Universal smart battery charger (any voltage, any Hz) comes preloaded with battery algorithms and availability to extract charging data via Bluetooth





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