



50 t

TELESCOPIC CRAWLER CRANE WITH BATTERY TECHNOLOGY



50 t



30,4 + 13 m



130 kW



210 kWh
Li-Ion Battery

653E

► ELECTRO

► BATTERY

Zero emission, without compromises!

23 t CO₂ savings per year
Up to 14 hours working in battery mode
Work and charge at the same time

Technical details

- Load capacity: 50 t
- Boom length: 30,4 + 13 m
- Engine rated power: 130 kW
- Battery capacity: 210 kWh
- Battery technology: Li-Ion Battery
- Charging power: 22 kW via on-board charger
- Full charge cycles: > 3.000
- Power connection: 32 A CEE plug (400 V / 50 Hz)

The concept

- Maximum mobility and uninterrupted work at the construction site thanks to Dual Power Management
- Powerful battery pack in the rear of the machine for up to 14 h operating time without recharging
- Flexible charging of the battery even during work

The profitability

- Plug & Play: No costly investments in charging stations, but conveniently use existing infrastructure
- Connection via standardized 32 A CEE plug to existing high voltage socket
- Work without interruptions: Flexible recharging of the battery during stationary activities

Highest safety

- No intervention in the high-voltage system necessary
- In addition to regular diagnosis, the machine detects malfunctions and interventions in the HV system and then switches off in a controlled manner
- Long battery life: The temperature control of the battery cells always ensures the ideal cell temperature

The environmental footprint

- The machine operates noticeably quieter and with less vibration than diesel-powered machines. People and nature are noticeably unburdened.
- Enormously positive CO₂ footprint: > 23 tonnes of CO₂ saved per year with energy production from renewable energy sources
- Reduced service-work, no need to supply fossil raw materials (diesel, engine oil)



THE MOST IMPORTANT ADVANTAGES AT A GLANCE

Zero Emission

With energy generated from renewable sources, the battery-powered crane saves an average of more than 23 t of CO₂ per year in single-shift operation. Maintenance work is eliminated, and at the same time the machine operates completely without fossil raw materials and with reduced vibration and noise. People and nature are noticeably unburdened.

Use existing infrastructure

Thanks to the 32 A CEE plug system used, the existing infrastructure of a construction site can be used: a 32 A high-voltage socket is sufficient. Investments in expensive charging columns can be avoided.

Unlimited in time

Up to 14 hours of use without recharging. After that, work can continue in stationary operation while charging. If more power is supplied to the machine than it consumes, this is used to charge the batteries at the rear, so that the machine can subsequently operate independently again.

Many charging cycles, long service life

Especially durable: the 653 Electro Battery uses certified high-voltage battery systems with at least 3,000 full charge cycles. In addition, the integrated power electronics ensure a particularly gentle motor start-up.

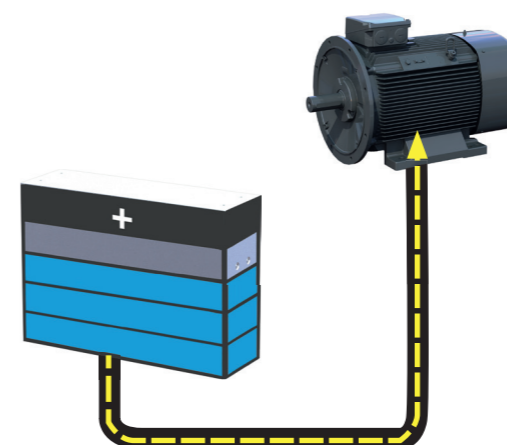


MODERN AND POWERFUL BATTERY TECHNOLOGY*



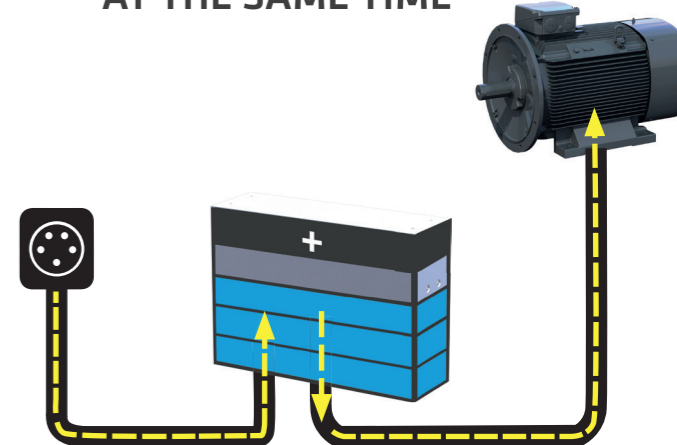
DUAL POWER MANAGEMENT

1 WORKING IN BATTERY MODE



The battery pack in the upper carriage acts as the sole source of energy. The machine runs and works completely independently.

2 CHARGE BATTERY AND WORK AT THE SAME TIME



Power connection via charging point. Work with the crane is still possible, taking into account the network connection. If more power is supplied to the machine than it consumes, this is used to charge the battery.

653E | Electro Battery

Bestell-Nr. 407623
653R-E-Electro Battery 102205

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MOVE BIG THINGS

IMPLEMENTATION OF BATTERY TECHNOLOGY



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