

elebia®

smart lifting solutions



R2 Quick Release Hook

Safer. Faster. Smarter.

Work Non-Stop. Removable Battery. Swap & Go.

Small. Tough. Works Anywhere.

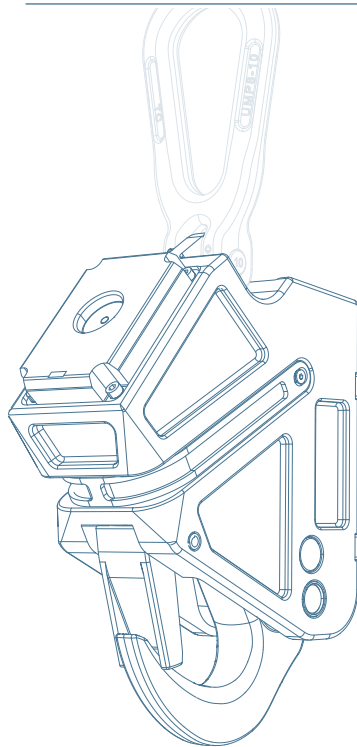
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Stevedore, windpower, steel mills, mining, aeronautics, nuclear, construction... No matter what your industry is
elebia® will boost the safety and productivity of your cranes

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Main Features of the r2 Lifting Hook

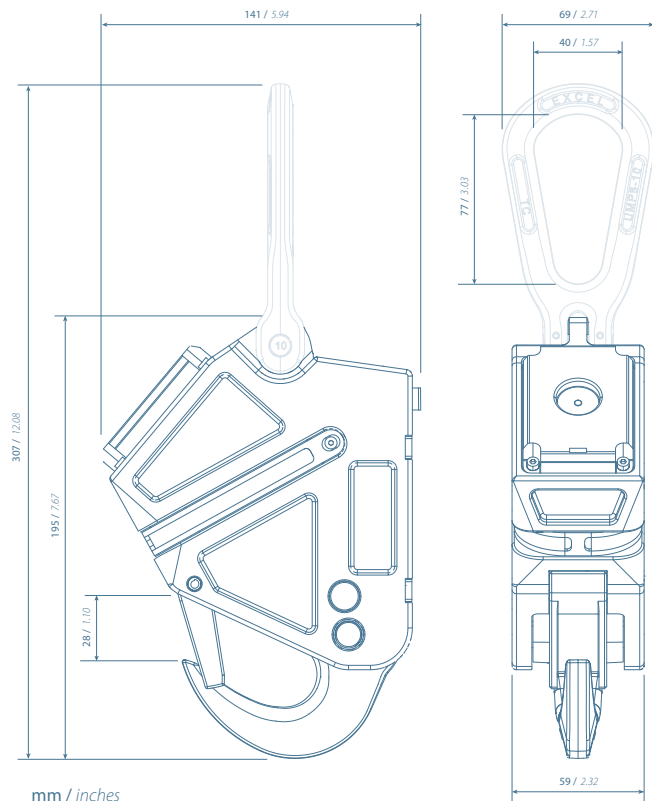
WORKING LOAD LIMIT 2,000 kg / 4,409 lbs.



- **Radio controlled**
Wireless operation via eMINI, eMAX, eLINK or Crane integration (eINST)
- **Open/Close button**
Manual override when needed
- **On/Off switch**
Quick and convenient startup and shutdown
- **Removable/Rechargeable battery**
Long runtime, tool free swap
- **High strength steel frame**
Durable, impact-resistant housing
- **Altimeter** Enables altitude-based auto locking for safe automation
- **Double Encoder**
Redundant position verification for fail-safe performance
- **Led Status Indicator** Real time feedback:
GREEN: Release/Unlocked
BLUE: Lift/Locked
RED: Transition
WHITE: Low battery
- **Electric Motor**
Controls lock mechanism.
Disables release under load
- **Safe Release Sensor**
Confirms ground contact before allowing release
- **Autolock Sensor**
Automatically prepares the hook for the next lift

*The masterlink is not included

Weight: 4 kg / 8,82 lbs



mm / inches

Battery R2 (Not included)

Remote Control (Not included)

Base model recommended eMINI

Display Information

Open Button

Close Button

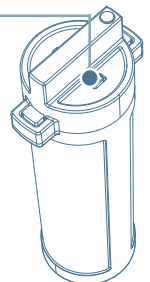


Power Supply	1x 3V lithium battery (CR2032)
Detection of Errors in Transmission	2 CRC bytes + Forward Error Correction
Buttons	2
Frequency Selection	5
Frequencies	868 MHz / 924.1 MHz
Communication	Bi-directional return of receiver batter
Radiated Power	under 5dBm
Antenna	Printed circuit
Range	100 metres / 330 feet
Working Temperature	-20 °C to 85 °C / -4 °F to 185 °F
Dimensions	Minitel box (68 x 52 x 17 mm / 2.68 x 2.05 x 0.67 inches)

Other compatible options: eMAX, eLINK (advanced control & diagnostics), eINST (panel integration; can inhibit hoisting with the hook in intermediate position).

Charge Indicator

Chemistry:	Li-ion INR28650MJ1
Pack configuration:	151P
Nominal voltage:	3.635 V
Nominal capacity:	3,500 mAh
Energy:	12.4 Wh
Charge voltage:	4.1 V
Charge C-rate:	0.2 C (0.69 A)
Charge method:	CC/CV down to < 50 mA
End-of-discharge voltage:	3.0 V
Max continuous discharge current:	3.0 A
BMS protections:	BMS protections: over-voltage (pack/cell), over-discharge, short-circuit, over-current
Operating temperature (discharge):	-20 °C to 60 °C / -4 °F to 140 °F
Operating temperature (charge):	5 °C to 55 °C / 41 °F to 131 °F
Storage:	-20 °C to 60 °C / -4 °F to 140 °F
Ingress protection (battery pack):	IP65
Dimensions:	71x19x19 mm / 2.8x0.75x0.75 inches
Weight:	0.05 kg / 1.76 oz
Push Button +	
LED State of charge indicator:	Green > 75 % Orange 25 - 75 % Red < 25 %



Charger (only the one supplied by elebia) USB-C input: 5 Vdc 2 A
Output: 4.2 Vdc 1 A per battery - Exclusive use with R2 batteries

Regulatory Standards

- EN 10204 3.1.B	- UNE-EN 60204-1:2007	- Machinery Directive 2006/42/EC
- ETSI EN 300 220-1 V3.1.1	- UNE-EN 61000-6-4:2007 (EMC - Emissions)	- EMC Directive 2014/30/EU
- ETSI EN 300 220-2 V3.1.1	- UNE-EN 61000-6-2:2006 (EMC - Immunity)	- Low Voltage Directive 2014/35/EU
- ETSI EN 303 446-1 V1.1.0	- UNE-EN ISO 12100:2012 (Risk assessment)	- Radio Equipment Directive (RED) 2014/53/EU
- ETSI EN 303 446-2 V1.1.0	- UN 38.3 (lithium battery transport)	- ARIB Construction Design Certification Number 203-JN0689.
- UNE-EN 1050	- ISO 9001 - Production quality assurance	- FCC ID 2ACLEVO - Digital Transmission System

