



CONSTRUCTION
INDUSTRY COUNCIL
建造業議會

Elebia Evo 自動吊鉤 Elebia Evo Automatic Hook

興勝建築有限公司

Hanison Construction Company Limited

**CIC Webinar
for
Innovation Solution for Lifting/Machinery
Safety**

Remote Safe Lifting Hook

Mr. William Leung
Project Manager
Hanison Construction Company Limited

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REGULATORY STANDARDS

- | | | | | |
|--|----------------------|-----------------|---|---|
| - Directive on machine safety (D89/37/EEC) | - UNE-EN ISO 12100-2 | - D89/654/EEC | - UNE-EN 1677 | - Each mechanism is delivered with the CE stamp and a declaration of CE conformity.

- ELEBIA is a member of the F.E.M. (European Federation of Materials Handling) |
| - UNE-EN 1050 | - UNE-EN 61000-6-4 | - D89/655/EEC | - EN 10204 3.1.B | |
| - UNE-EN ISO 12100-1 | - UNE-EN 61000-6-2 | - D89/656/EEC | - Assurance of production quality in accordance with ISO 9001 | |
| | - D89/391/EEC | - D92/58/EEC 9* | | |
| | | | | |

elebia smart lifting solution

Place of Origin: Barcelona, Spain



Working Load Limit



Hook Model: evo5

- Safe Working Load: 3.2 Tonnes
- Working Load Limit: 5 Tonnes
- Hook Weight: 38 kg
- Remote Control Distance: 100 m
- Charge time: 3 hours

WELDOX (High strength steel)
with Impact & corrosion
resistant coating

Safety latch



load cell

Removable &
rechargeable lithium
battery with LED indicator
and locking system

Clutch protected
electric motor

IP65

Manually operation
button

Magnetic field
generator

- The hook generates a magnetic field that 1) **attracts** the lifting gear such as shackle, 2) **centers** it and 3) **orientates** it
- Press the “close” button on the remote control to automatically close the lifting hooks, without any manual intervention, and operating remotely from a safe distance





Fail-safe Design Safety Hook

Safety hook can not drop suspended loads.
The motor's torque is not powerful enough
to open the hook when a load is suspended.

eMAX

REMOTE CONTROL
by elebia®



Remote Model:
eMAX

Innovation Solution for Lifting/Machinery Safety



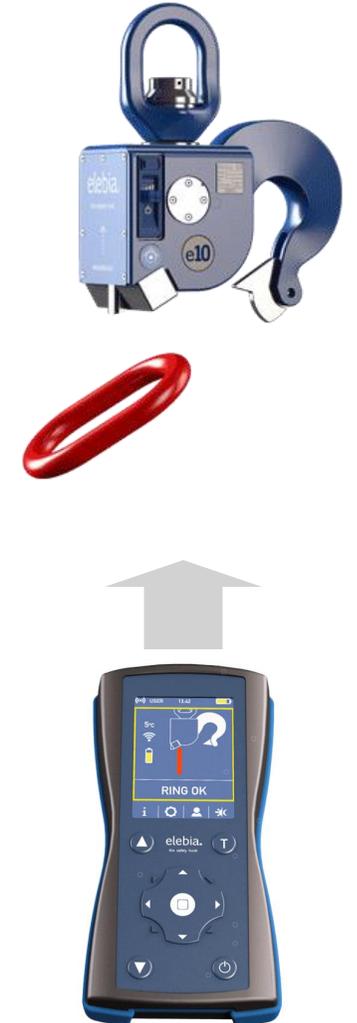
Traditional Lifting Hook

- Operated manually
- Work in close proximity
- Takes time in loading / unloading goods

Remote Safe Lifting Hook

- Automatic operation
- Remotely controlled
- Saves time in manoeuvring operations





Innovation Solution for Lifting/Machinery Safety

吊運安全推廣活動

Lifting Safety Promotional Campaign

創新改善吊運安全獎

Innovation Enhancement for Lifting Safety

興勝建築有限公司

Hanison Construction Company Limited

安全吊運不求人鈎

Remote Safe Lifting Hook

Project: Construction of Sports Centre, Community Hall and Football Pitches in Area 1, Tai Po - Contract No.: SS E509

銀獎

Silver



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Type of Technology	Product Type	Code	Distribution Channel	Product Descriptions	Reference Photo
Automated Equipment	Safety Hook	PA20-107	Elebia Autohooks S.L.U. Tel: +34 619 88 7234	<p>Elebia Evo Automatic Hook Model: Evo2, Evo5, Evo10, Evo10 Compact, Evo20, Evo25</p> <p>This product is an automatic hook for lifting equipped with a magnet and sensor in its lower section that attracts and correctly positions the shackle. The operator can either close the hook by pushing a button remotely, or the hook can close itself when the sensor feels the shackle correctly placed. Additionally, the hook can also be equipped with a load sensor indicating how much weight it is lifting, its position and the load horizontal alignment. All this information is recorded in its "eMax" remote control that acts as a hub gathering the information and recording the activity of the hook. This information can be processed for data analysis or BIM modelling.</p>	

Advantages – Safety Enhancements and Increased Productivity

Fail-safe Design

Fail-safe design safety hook is simply gravity that avoids the opening of the hook if there is a suspended load



Time Saving

Less time in loading/unloading goods and transporting materials

Remotely Control

Reduce risk of injuries related with working at heights and repetitive movements

Enhance Productivity

Less workers and machinery are required to undergo lifting operation

Lifting precast elements by multiple Autohooks such as Precast façade, Precast Slab, Precast Stair, Volumetric Precast Bathroom, Volumetric Precast Kitchen, etc.