

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Hook**

with type designation(s)
Elebia Hooks (SWL=5, 10 & 20 tonnes)

Issued to

ELEBIA AUTOHOOKS, S.L.U.
Barcelona Barcelona, Spain

is found to comply with
Standard for Certification No. 2.22 Lifting Appliances

Application :

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Loose gears for offshore cranes

Issued at **Høvik** on **2017-04-03**

This Certificate is valid until **2021-04-02**.

DNV GL local station: **Barcelona**

for **DNV GL**

Approval Engineer: **Antonio Sendin Alvarez**

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Aldo Matteucci
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Equipment type: Elebia Hooks
Categorization: offshore cranes
Design dynamic factor: 1.3
Safe working loads (SWL): 5, 10 & 20 tonnes
Minimum design temperature: -20 degrees Celsius

Application/Limitation

1. This type approval certificate covers only the loadbearing parts. Electrical and magnetic systems are not covered by this certificate.
2. All materials are to be delivered with 3.1 certificates, documenting mechanical properties and chemical composition in accordance with the type approval documentation.
3. Welding and NDT as specified in the type approval documentation are to be carried out by certified personnel.
4. It is the responsibility of the holder of the certificate to ensure that both design and production are in compliance with Rules, Standards and/or Regulations listed on page 1 of this type approval certificate.
5. The equipment has not been evaluated with respect to corrosion and functionality in sea water.

Type Approval documentation

Tests carried out

In order to obtain a CG3 certificate, each hook shall be tested according to DNV's Standard for Certification 2.22 "Lifting Appliances", June 2013, Ch.2 Sec.12.

Marking of product

Each hook shall be marked according to DNV's Standard for Certification No. 2.22 "Lifting Appliances" June 2013 Ch.2 Sec.12

Periodical assessment

For retention of the Type Approval, a DNV GL surveyor shall perform a survey every second year and before expire date of this certificate to verify that the conditions for the type approval are complied with.
END OF CERTIFICATE