

# 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**

Approval Engineer: **Antonio Sendin Alvarez**

for **DNV GL**



Digitally Signed By: aldo.matteucci@dnvgl.com  
Location: DNV GL Høvik, Norway  
Signing Date: 03.04.2017

**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 personel.
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

Drawing No.	Rev.	Title	Status	Date
EVO1001_SOLD	AC	Bastidor soldadura	Type approved	2017-03-31
EVO1007	AB	Eix	Type approved	2017-03-31
EVO1021	AC	Tija 20t	Type approved	2017-03-31
EVO20_MIDES	AB	EVO20_MIDES	For information	2017-03-31
EVO161M	AC	Ganxo 20t	Type approved	2017-03-31
EVO20_EXPL	AB	Explosionat evo20	For information	2017-03-31
EVO20	AB	EVO20	For information	2017-03-31
EVO1020	AC	Tija 10t	Type approved	2017-03-31
EVO10_EXPL	AB	Explosionat evo10	For information	2017-03-31
EVO10_MIDES	AB	EVO10_MIDES	For information	2017-03-31
EVO10	AB	EVO10	For information	2017-03-31
EVO1001	AI	Bastidor mecanizat	Type approved	2017-03-31
EVO1019	AC	Tija 5t	Type approved	2017-03-31
EVO1401	AC	Ganxo 5t	Type approved	2017-03-31
EVO5_EXPL	AA	Conjunt general	For information	2017-03-31
EVO5_MIDES	AB	EVO5_MIDES	For information	2017-03-31
EVO5	AB	EVO5	For information	2017-03-31
SCH-1806		FEM analysis EVO 1601 20T	For information	2017-03-31
SCH-1807		FEM analysis EVO 1401 5T	For information	2017-03-31
	15/09/14	Technical report	For information	2017-03-31
13/31700067	31/01/13	Informe de ensayo	For information	2017-03-31

## 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.



Job Id: **262.1-018237-1**  
Certificate No: **TAS0000108**

### **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