DNV·GL

Certificate No:
TAS00001MJ

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cargo Securing Devices

with type designation(s)
Semi automatic twistlock T-5

Issued to
Container Technics NV
Wijnegem, Antwerpen, Belgium

is found to comply with
DNV GL rules for classification – Ships

Application :

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

SWL, tension (kN)	**250**
SWL, shear (kN)	**210**
SWL, compr. (kN)	**-**

Issued at **Hamburg** on **2018-08-23**
This Certificate is valid until **2023-08-22**.
DNV GL local station: **Antwerp**

Approval Engineer: **Mark-Oliver Wobig**

for **DNV GL**

Andree Orth
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.

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Product description

Semi-Automatic Twistlock

Application/Limitation

Load	Tension [kN]	Shear [kN]
Test Load	375	263
Breaking Load	500	420

Tests to be carried out:

- Production testing: At least 2% of the items delivered are to be selected and subjected to the test load.
- Material tests are to be included energy testing at -20°C, with the impact energy requirements acc. to DNVGL-CP-0068. The material shall be according to the approved drawings. Material certificates shall be 3.1 acc. to DIN EN 10204.

Type Approval documentation

Drawing No.	Rev.	Title
T-5	o	Semi-Automatic Twistlock (pg.1-2)
K-F6-2		Semi-Automatic Twistlock
K-F6/02A		Right Body
K-F6/02A		Left Body
K-F6/05		Compression Spring
K-F6/06A		Shaft
K-F6/06-1		Shaft
K-F6/06A-1		Turning Spring
K-F6/03		Positioner
K-F6/01B		Wire Handle

Drawing approval: Ref.No. 05-089612, dated 2005-08-11

Tests carried out

The prototype test was carried out in Kunshan, P.R. China, dated 2018-08-21 in accordance with the DNVGL-CP-0068.

Marking of product

Each item shall be marked by manufacturer for traceability.

Periodical Assessment

For retention of the Type Approval, a DNVGL surveyor shall perform a survey after 2 and 3.5 years, to verify that the Type Approval is complied with.

Manufactured by

Kunshan Lucky Sea Industrial Ltd.