



TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

Certificate No: TO.DEB.12-0269-3

This Certificate consists of 2 pages.

This is to certify that the

ANCHOR WINDLASS

With type designations

DZC 3301 H , DZC 3301 E
DZC 3302 H , DZC 3302 E

Manufactured by

**DATA HİDROLİK MAKİNA SANAYİ A.Ş.
TUZLA / İSTANBUL**

Is found to comply with

Türk Loydu Rules for Classification of Ships.

Application : The Anchor Windlass intended for ships, tugs, yacht and marine industry.

Design : DATA HİDROLİK MAKİNA SANAYİ A.Ş.

Sizes : Chain diameter 18 -20 -23 mm acc. to DIN 766
16 - 17.5 - 19 - 20.5 - 22 mm Stud-link

Address of Manufacturer : İstanbul Deri Organize Sanayi Bölgesi Yan Sanayi Alanı
YA-8 Parsel Aydınlı-Tuzla / İstanbul / TURKEY

Place and date : Tuzla / İSTANBUL - 16.07.2012

Subject to the conditions referred to 2nd page, this certificate is valid until 15.07.2017


İlker KARPUZ
Head of Marine Industry Division


Hasan HABİBOĞLU
Surveyor

47304

Product description:

Maximum continuous pull : 3300 kg (Hydraulic) - 2900 kg (Electric)
Maximum pull : 3630 kg (Hydraulic) - 3600 kg (Electric)
Hauling speed : 12 m/min. (Hydraulic) - 13 m/min. (Electric)
Input power : max. 14 kW. (Hydraulic) - max.11 kW (Electric)

Type Designation :

DZC 3301 one wildcat , one capstan
DZC 3302 two wildcat , two capstan
Drive : E : Electric motor , H : Hydraulic
Wildcat and Capstan Material : B : Bronze Kr : Stainless steel P : Steel
Control unit : M : Local control S : Remote-control

Materials used : To be referred to the approved drawings dated 01.03.2011

Application/ Limitation (Approval conditions):

Maximum continuous pull : 3300 kg (Hydraulic) - 2900 kg (Electric)
-When required by the rules the accessories fitted on the anchor windlass must be type approved.

Documentation :

Approved drawings , Test reports No: 24.01.2012 B.30.2.YIL.029.11.00 060.11.04-61 –
23.01.2012 - B.30.2.YIL.0.29.00/060.11.04-57 - B.30.2.YIL.0.29.00.04 /060.01.06 -23 ,
09.02.2012/ B.30.2.YIL.0.29.11.00/060.11.04-121

Test carried out (and results) :

Following tests were carried out, found satisfactory.

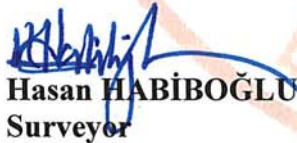
- Visual inspection
- Material test (mechanical and chemical)
- Continuous pull test – 30 min.
- Short term pull test – 2 min.
- Braking load test
- System function test

Place of test carried out :

- YTÜ Laboratory
- Data Hidrolik Makina Sanayi A.Ş.

Marking of product: The product to be marked same as below mentioned.

- Manufacturer's name or trade mark
- Serial number of the units
- Equipment type or model identification
- Chain size
- Manufacture date


Hasan HABİBOĞLU
Surveyor

This certificate is valid if retention/renewal surveys carried out to the satisfaction of TL surveyor and following entries made:

<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Surveyor	Surveyor	Surveyor	Surveyor
.../.../2013	.../.../2014	.../.../2015	.../.../2016
Survey Date	Survey Date	Survey Date	Survey Date

This certificate is subject to terms and conditions described below.

Any significant change in design or construction may render this Certificate invalid. Type Approval Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without TL marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to the equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and relevant international instruments that apply to it.