

Supplier:



MARITIME PARTNER

Document title:

MAIN DATA SHEETS ALUSAFE 770 TWIN FRB

Supplier Doc. No.:

G03-045

Number of page:

1 of 2

Rev. No.:

01

File name:

J:\STANDARD\G03-045

P.O.No.:

Client:

Client Doc.no.:

Tag no./Type:

ALUSAFE 770 TWIN

Package Title:

Area code/Vessel name:

Remarks:

02	13.09.07	Power consumption	Tas	RI	
01	24.07.07	General issue	R.L.		
Rev.	Date	Reason for issue	Made	Check	Appr.

MAIN DATA

1.1 Technical data

Boat, type	Alusafe 770 Twin
Engine, type	2 x VOLVO D3
Water jet, type	2 x PP-90 Waterjet
Max. speed	35 knots

1.2 Restrictions in guarantee

UNEC FOR EUROPE 188
NL 85

1.3 Restriction in use

The engines are designed for idle running onshore (dry) for max. 5 minutes. Increasing this limit may result in damage on sea water pump impeller.

Limit of operation to be defined by owner.

1.4 Main connections, utilities required

Power supply	42 V, 1 ph, 50 Hz.
Power consumption	1460 W

1.5 Weight and outline dimensions

Length overall	8,10 mtrs.
Length hull	6,85 mtrs.
Breadth extreme	2,70 mtrs.
Breadth hull	2,13 mtrs.
Draught	0,45 mtrs.
Weight fully equipped	2.390 KGs
Davit load with 10 pers.	3.140 KGs
Max. speed with 1 pers.	35 knots.

Supplier:



MARITIME PARTNER

Document title:

CERTIFICATES FOR ALUSAFE 770 TWIN

Supplier Doc. No.:

T01-039

Number of page:

1 of 13

Rev. No.:

01

File name:

J:\STANDRAD\T01-039.DOC

P.O.No.:

Client:

Client Doc.no.:

Tag no./Type:

ALUSAFE 770 FRB

Package Title:

Area code/Vessel name:

Remarks:

01	24.07.07	General issue	H.A.O.		
Rev.	Date	Reason for issue	Made	Check	Appr.

CONTENT

	<i>Description</i>	<i>No. of pages</i>
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MARITIME PARTNER

DECLARATION OF CONFORMITY

We:

Maritime Partner AS , Notenesgt 1, 6001 Ålesund

Declare under our sole responsibility that the product:

Type of boat	:	ALUSAFE 770 TWIN FRB
Name of vessel	:	TBN
Date of manufacture	:	10/2008
Dimensions (L x B D)	:	8150 x 2700x3100 mm
Yard no	:	1376
Buoyancy material	:	Logopur 454 natur / Polyolsystem 760
Boat weight, fully equipped	:	2390 kgs
Boat weight, fully manned (10)	:	3140 kgs
SWL of lifting arrangement	:	3.300 kgs with dynamic factor 3,1
Lifting hook	:	HMK 8 Serial No.: 1084
Lifting ring	:	HLR 5 Serial no.: K17138-75
Swivel Joint	:	HSL 8, Serial no.: 693
Engine	:	2X VOLVO D3-190
Serial number of engines	:	PS:200301/5343 and SB:200301/5669
Waterjets	:	2XPP90
Serial number waterjets	:	PS: MP 001802-323-01 and SB: MP 001801-323-02
Equipment	:	Acc. to LSA Code, MSC 48(66)

To which this declaration relates is in conformity with the following standards or other normative document:

**Annex A.1, section 1,item No.A1./1.20 and Annex B, Module G in the Directive.
Council Directive 96/98/EC, as amended by 2002/75/EC**
- **Solas 74, Reg. III/4, III/26.3 & III/34**



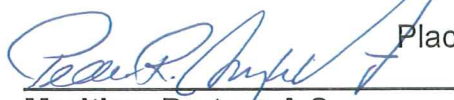
As amended by:

- | | | |
|---|----------------------|----------------------------------|
| - | IMO Res. MSC 48(66) | LSA Code |
| - | IMO Res. MSC 81(70) | Testing of lifesaving appliances |
| - | IMO Res.MSC/Circ.809 | Fast Rescue Boats |

Following the provisions of The Norwegian Maritime Directorate:

- **Reg. for Mobile Offshore Units 492/03 §9 (29) c) d) Fast Rescue Craft.**

EC Type – Examination by Det Norske Veritas, Certificate No. MED-B-4841


Maritime Partner A.S

Place and date: Ålesund, 24. juli 2009

MARITIME PARTNER AS

Notenesgt. 1, P.O.Box 776 Sentrum, N-6001 Ålesund, Norway
Tel. +47 70 11 65 65 • Fax +47 70 11 65 55 • office@maritime-partner.com
www.maritime-partner.com • Enterprise NO 970 949 763 MVA



**MARITIME PARTNER
SUPPLY LIST**

Place of Delivery:	Address:	Kontrakt 4501798262 – Alusafe 770 Twin: StatoilHydro Petroleum AS Forsyningsbase Florø Visund Platform Botnaneset Bygg B23/26 6900 Florø						
Terms of Delivery:		FCA						
Client:	Name:	Statoilhydro Petroleum AS						
	Address:							
	Attn.:							
Equipment:		Rescue Boat w/equipment						
Type:		Alusafe 770 Twin						
Date:		Aalesund, 22. july 2009						
Project name/no.:		P 3053 / Yard 1376						
Shipping week/date:		30/2009						
Item No.	Description	Ord.	Back Order	De l.	Weight (kg)	Dimensions (m)	Collie no.	Notes
Collie No.: 1 – MOB-boat in plastic wrapping consist of following					2390	8150x2710x3070mm		
01	Rescue boat 	1		1			1	
<i>Equipment mounted on collie no 1:</i>								
02	Painter release hook 	1		1			1	
03	Compass 	1		1			1	
04	Handle for manual bilge							

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		1		1			1	
05	Boat hooks w/paddles 	2		2			1	
06	Radar reflector 	1		1			1	
07	Plug for shore connection. 	1		1			1	
08	Search light 	1		1			1	
09	Fire extinguisher 	1		1			1	
10	El. main switch 	3		3			1	
11	Rope ladder 	1		1			1	
12	Power assisted maneuvering 	1		1			1	
13	Engine Heater 	1		1			1	
14	Battery charger 	1		1			1	

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15	Lifting ring 	1		1			1	
Collie no 2 – Equipment boxes under forecastle					10	700x200x200 mm		
16	Buoyant Bailer 	1		1			2	
17	Jack Knife 	1		1			2	
18	Electrical torch 	1		1			2	
19	Whistle 	1		1			2	
20	Hypothermia bags 	2		2			2	
21	Rep. kit for fender 	1		1			2	
22	Dead man switch 	2		2			2	
Collie No.: 3 – consist of following (NB! Collie 3 is strapped to the lifting frame of the boat, inside the plastic wrapping)					60	2000x1500x600 mm		
23	Painters 	3		3			3	

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24	Towing Line 	1		1			3	
25	Rescue line w/ring 	2		2			3	
26	Sea anchor 	1		1			3	
27	Tool set 	1		1			3	
28	First aid kit 	1		1			3	
29	Transformer 	1		1			3	
30	Bucket 	1		1			3	
Total number of collies:							3	
Total weight (kgs):							2390	
Sender:		Teleph.:/Fax no.			Date /sign.			
MARITIME PARTNER AS Notenesgt. 1 Postboks 776, Sentrum, N-6001 AALESUND,NORWAY		Tel.: +47 70 11 65 65 Fax.: +47 70 11 65 55			Date _____ Signature <u>Nils Ivar Myklebust</u>			

MARITIME PARTNER AS

Notenesgt. 1. P.O.Box 776 Sentrum, N-6001 Aalesund, Norway
 Tel. +47 70 11 65 65 • Fax +47 70 11 65 55 • office@maritime-partner.com
 www.maritime-partner.com • Enterprise NO 970 949 763 MVA

maritime partner as

Please change this page when you received following certificate from maritime partner as.

Certificate of Conformity-EC
Certificate no. Med-G-xxx



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-4841

This Certificate consists of 3 pages

This is to certify that the
Fast rescue boats

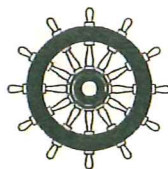
with type designation(s)
Alusafe 770

Manufacturer
Maritime Partner AS
ÅLESUND, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.20 and Annex B in the Directive. SOLAS 74 as amended,
Regulation III/4, III/26.3, III/34 & X/3, LSA Code, 2000 HSC Code, 8.1 and IMO MSC/Circ.
809.

Further details of the product and conditions for certification are given overleaf.

Place and date
Høvik, 2008-07-09
for DET NORSKE VERITAS AS



This Certificate is valid until
2009-05-18

[Signature]
for Kristen Ulveseter
Manager, MTPNO370
Department Systems & Components

Notified Body No. 0575



[Signature]
Frode Brattum
Surveyor

DNV local office:
DNV Ålesund



Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-4841
Job Id.: 344.1-000607
Item No.: A.1/1.20

Product description

Alusafe 770, Rigid fast rescue boat with single point lifting arrangement and inflatable bag for re-righting after capsizes is built in two versions, both available with or without inflatable fender:

- Single engine
- Twin engine

Length over all, max:	7.94 m
Draught:	0.45 m
Beam overall, including fenders, Bmax:	2.70 m
Weight of boat, fully equipped, single engine:	2425 kg
Weight of boat, fully manned, single engine:	3175 kg
Weight of boat, fully equipped, twin engine:	2615 kg
Weight of boat, fully manned, twin engine:	3365 kg

Hull material:	Aluminium alloy
Hook type:	HMK 3.5 or HMK 5

Propulsion system:	Inboard engine and waterjet
Engine types for single engine installation:	Yanmar 4 LHA-STP, 177 kW Yanmar 6LYA-STP, 250 kW
Engine types for twin engine installation:	Volvo D3-160, 115kW Volvo D3-190, 134 kW Bukh Steyr MO164M40, 120 kW

Bollard pull, measured for 147 kW engine:	6 kN
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Application/Limitation

Approved engine power:	max 250 kW (single) or 2 x 134 kW (twin)
Number of persons, max:	10
Maximum load (persons):	750 kg

- Fast rescueboat equipment and marking/instructions to be inspected after installation onboard the ship.
- The fast rescueboat is fitted with a release hook without on-load release capabilities, in accordance with LSA Code 4.4.7.6.5. Hence, if it is to be combined with launching appliances with permanent high speed tensioning device, compatibility must be assured.
- The normal equipment of the fast rescue boat to include a hands-free and watertight VHF radiocommunication set, in addition to the ones required on the bridge.
- Production testing shall be carried out according to IMO Res. MSC 81(70), part 2.





Cert. No.: MED-B-4841
Job Id.: 344.1-000607
Item No.: A.1/1.20

Approval documentation

This certificate replaces MED-B-2451.

Basis for approval:

- Maritime Partner AS Technical specification for Rescueboat Type Alusafe-770, Doc. No A01-029, dated 2002-12-03
- Drawings as specified in approval letter of 2004-05-18.
- Drawings as specified in approval letter of 2008-07-09.
- Strength analysis of the Lifting Arrangement for Alusafe 770 Twin Steyr, MP-2005-02, Rev. A
- Prototype tests carried out 2003-12-08, 2003-12-18, 2006-09-11 and 2008-05-28, witnessed by DNV.

Tests carried out

Prototype tests are documented in accordance with recommendation on testing of Lifesaving Appliances, IMO Res. MSC 81(70) part 1, as detailed in above documentation.

Marking

The product is to be indelibly marked with name of manufacture, type designation, dimensions and date of manufacture, according to LSA code item 4.4.1.2.

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D of Annex B in the same directive is fully complied with.

Module D: The quality system for production and testing shall be approved by the Notified Body.

END OF CERTIFICATE



Supplier:



MARITIME PARTNER

Document title:

CERTIFICATE FOR LIFTING HOOK, SWIVEL JOINT AND LIFTING RING.

Supplier Doc. No.:

T01-001

Number of page:

1 of 27

Rev. No.:

01

File name:

J:\standard\T01-001

P.O.No.:

Client:

Client Doc.no.:

Tag no./Type:

HMK 5,0 T / 8,0T

Package Title:

Area code/Vessel name:

Remarks:

01	24.07.07	General issue	R.L.		
Rev.	Date	Reason for issue	Made	Check	Appr.

CONTENTS

- Certificate MOB-HOOK Type HMK 8
- Certificate MOB-SWIVEL Type HSL 8
- Certificate Ring Type HLR 5
- Declaration of Conformity

<u>MP's</u> Yard	Serial No. HMK Hook	Serial No. HLR Ring	Serial No. HSL Swivel Joint
1376	1084	K17138-75	693

2. Type approval

- EC TYPE-EXAMINATION CERTIFICATE FOR HMK 8
Certificate No. MED-B-2314
- Warranty

3. Type approval

- EC TYPE-EXAMINATION CERTIFICATE FOR HSL 8
Certificate No. MED-B-2315
- Warranty

HENRIKSEN SAFETY QUICK RELEASE HOOKS



HMK 8



FOR FAST RESCUE CRAFTS AND
OTHER TYPE OF BOATS WITH SINGLE
POINT LIFTING ARRANGEMENT
8200 KG WLL



*HMK 8
NO. 1084*

HOOK	HMK	8
RING	HLR	8
SWIVEL		
JOINT	HSL	8

The **HMK 8** is designed for Fast Rescue Crafts, Daughter Crafts and workboats with a total weight up to 8200 kg. The HOOK is used by offshore, shipping, seismic and military services world wide, and has proven an excellent track record.

Operation of an off load hook:

On the way down lowering the boat, release the handle on the HOOK. The HOOK will then open automatically when the boat is waterborne, and the pull in the wire is less than 25-30 kg. Before lifting the boat, load the HOOK by lifting the handle and connect the lifting ring by pushing it into the HOOK.

LIFTING RING HLR 8 is specially fitted to the **HOOK HMK 8** and it is equipped with handles for easy operation. Use of our **Henriksen lifting rings** together with our **Henriksen hooks** are strongly recommended, as these have geometry that fit together.

SWIVEL JOINT HSL 8, which reduces the sideways force upon the HOOK and the lifting frame, is recommended on boats which are frequently used.

All **Henriksen HOOKS** are produced in polished stainless steel and delivered in a practical wooden box.

The **HMK 8** can also be delivered in following versions:

- Standard HOOK with external remote release control box
- Standard HOOK with handle and external remote release control box

The above mentioned versions can be delivered on request.



H. HENRIKSEN
MEK. VERKSTED A/S



H. HENRIKSEN
MEK. VERKSTED A/S

CERTIFICATE NO: 18.06.08

PRODUCT CERTIFICATE HENRIKSEN HOOKS/LIFTING EQUIPMENT

Distinguishing Number or mark	Type of hook/ lifting equipment	Number tested	Date of test	Test load (tonnes)	Safe working Load (WLL) tonnes	Name and address of makers or suppliers
1078-1087	MOB HOOK TYPE HMK 8	10	18.06.08	20,5	8,2	H. Henriksen Mek. Verksted AS PO Box 2404 3104 Tønsberg Norway

SERIAL NO.:
1084

PRODUCED ON HHMV O.NO. P08-0315
TAKEN INTO SERVICE: JULY 2009
EXPIRE DATE: JULY 2014

Validity of this certificate: 5 years.*

* Valid for 5 years after "date of taken into service", which means we warrant the product free from faulty design, materials or workmanship during the warranty period. Hooks which is subject to more extensive use may need more frequent service/recertification.

Name and address of the firm or competent person who witnessed and carried out thorough examination

H. HENRIKSEN MEK. VERKSTED A.S.
PO BOX 2404
3104 TØNSBERG-NORWAY

I certify that the above item of hook/lifting equipment were tested and thoroughly examined and no defects affecting their WLL were found.

Date: 180608 Place: TØNSBERG

Signature:



H. HENRIKSEN
MEK. VERKSTED AS

Our order:17138
Customer:H.Henriksen Mek. Verksted A/S
Customerref. :Anne G. Johansen

Test Certificate

Certificate no: 154456

Testing and examination of chains, rings, hooks, shackles and other lifting devices

Distinguishing marks	Description	Serial no	Quantity tested	Date of test	Force KN	WLL.SW ton
K17138.1-100	Link 22.7.OF With handles and crossbar According to our drawing no. 21833. Proof force: 118 kN. Marked K-17138.1-100 . WLL 6 T. RED PAINTED	K-17138.1-100	100,00	05.09.2008	118	6

NO. 75 *SOLD: 9/10-08*

Not to be heat-treated

7) Were the items described herein tested and thereafter examined by a competent person and found to be free from cracks, flaws or other defects?

Yes

8) Name and address of manufacturer or supplier:

Kjættingfabriken AS

9) Name and address of public service, association, company or firm performing the test and examination:

Kjættingfabriken AS

10) Position of signatory of public service, association, company or firm:

Advisor

I hereby certify on behalf of the mentioned above that the informations are correct.

Actual product comply with the health and safety requirements of the Machine Directive:

89/392/EEC, 91/368/EEC, 93/44/EEC, 93/88/EEC, 98/37/EEC.

Date:09.09.2008

Kjættingfabriken AS

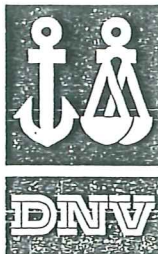

Signature

Kjættingfabriken AS
Industriveien 2
766 SANNIDAL

Telephone : 35 98 58 80
Fax: 35 98 58 90
E-mail: fram@framlink.no

Org.no: 981 299 000 MVA
Bankkonto: 7177 05 13302

Telefon:
Faks :



DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-2314

This Certificate consists of 3 pages

This is to certify that the product
**Release mechanism for lifeboats and rescue boats and liferafts
launched by a fall or falls**

with the type designation(s)

HMK 5

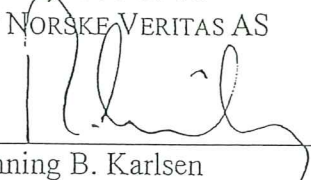
Manufactured by

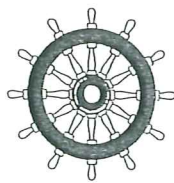
H. Henriksen Mek. Verksted A/S
TØNSBERG, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.26 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/34 & X/3, LSA Code, and 2000 HSC Code, 8.1 & 8.5

Further details of the product and conditions for certification are given overleaf.

Place and date
Høvik, 2004-06-30
for DET NORSKE VERITAS AS


Henning B. Karlsen
Manager, MTPNO370
Department Systems & Components



Notified Body No. 0575

This Certificate is valid until
2009-06-30


Ola E. Ruud
Surveyor

DNV local office:
DNV Sandefjord

Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-2314

Case No.: EC-LS-128

File No.: A.1/1.26

Product description

Off load release hook with safe working load 5,0 tonnes.

The hook may be used with optional swivel joint HSL 8,2

Applications/Limitations

- Grades of materials as stated on drawings are to be delivered with certificates.
- All welding is to be carried out by qualified welders and according to welding procedure acceptable to the attending surveyor.
- Extent of non-destructive testing is to follow an agreed plan.

Type Examination documentation

Drawing no.	Rev.	Title	Status
KR-1077	0	HMK 5.0 Sammenstilling	For info.
KR-1078	0	HMK 5.0 Sideplate, krok og pall	Approved
KR-1079	0	HMK 5.0 Håndtak og diverse deler	Approved

Tests carried out

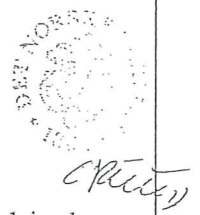
Testing carried out in December 1991, witnessed by DNV, Høvik.

Marking of product

The marking shall be according to the LSA Code, item 1.2.2.9

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.





Cert. No.: MED-B-2314

Case No.: EC-LS-128

File No.: A.1/1.26

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE



[Handwritten signature]

Declaration of Conformity (manufacturer)

DECLARATION OF CONFORMITY

We

H. Henriksen Mek. Verksted A/S
(suppliers name)

Trøleborgveien 15, 3112 Tønsberg, Norway
(address)

declare under our sole responsibility that the product

HMK 5/HSL 8

(name, type or model, lot, batch or serial number, possibly sources and numbers of items)

to which this declaration relates is in conformity with the following standard(s) or other normative documents(s)

Annex A.1, item A.1/1.26 and Annex B, Module B in the directive SOLAS 1974 as amended, Regulation III/4, III/34 & X/3, LSA Code, and 2000 HSC Code; 8.1 & 8.5.

(title and/or number and date of issue of the standard(s) or other normative document(s))

(if applicable) following the provisions of

Council Directive 96/98 EC of 20 December 1996 on Marine Equipment, as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate

Tønsberg, 20.04.2000/26.08.2003/06.08.2004

(Place and date of issue)

.....
Henrich N. Henriksen

(name and signature of equivalent marking of authorized person)



WARRANTY

Product: HENRIKSEN *STANDARD HOOKS*

The Manufacturer guarantees each new hook to be free from defects in material and workmanship for 5 years after date taken into service.

This guarantee requires monthly control by user to be taken care of. ref. "maintenance procedure" delivered as part of documentation together with the hook,

The warranty does not include damage caused by overloading, accident, mis-application or any other misuse acc. to operating and maintenance instructions made by manufacturer.

No other person, agent or dealer is authorised to do any repairs on this product!

Rev.01. 05.02.04 agj
Rev.02 19.09.06 agj

HENRIKSEN SWIVEL JOINT SAFETY QUICK RELEASE HOOKS

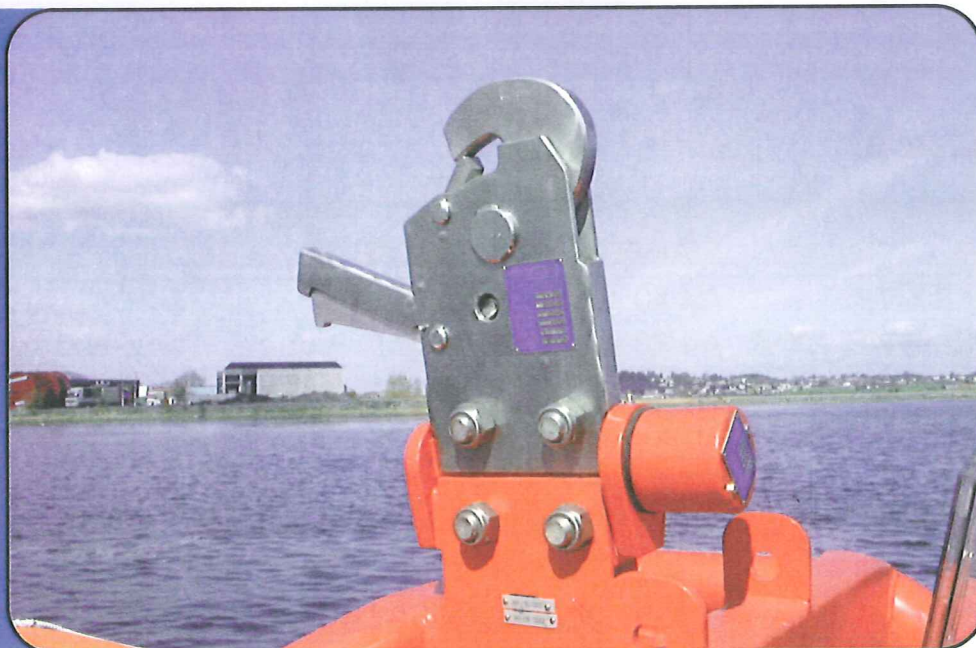


HSL 8



FOR FAST RESCUE CRAFTS AND
OTHER TYPE OF BOATS WITH SINGLE
POINT LIFTING ARRANGEMENT
8200 KG WLL

*Certificate
enclosed
HSL 8
NO. 693*



SWIVEL JOINT		
	HSL	8

Fits to:

HOOK	HMK	5
HOOK	HMK	8

The **HSL 8** is designed for Fast Rescue Crafts, Man-Over-Board boats and workboats with a total weight up to 8200 kg. The SWIVEL JOINT is used by offshore, shipping, seismic and military services world wide. **HSL 8** has proven an excellent track record.

The SWIVEL JOINT **HSL 8** is mounted between the HOOK and the lifting frame on the boat. **HSL 8** is designed to allow the HOOK to be pivoted max 30° (to each side), thus reducing the bending moment on the HOOK and on the lifting frame. **HSL 8** fits to **HMK 5** and **HMK 8** HOOK.

The SWIVEL JOINT is recommended on boats that are frequently used, or that may experience a sideway force during operation.

All **Henriksen SWIVEL JOINTS AND HOOKS** are produced in polished stainless steel and delivered in a practical wooden box.



H. HENRIKSEN
MEK. VERKSTED A/S



H. HENRIKSEN
MEK. VERKSTED A/S

CERTIFICATE NO:

25.01.08

PRODUCT CERTIFICATE HENRIKSEN HOOKS/LIFTING EQUIPMENT

Distinguishing Number or mark	Type of hook/ lifting equipment	Number tested	Date of test	Test load (tonnes)	Safe working Load (WLL) tonnes	Name and address of makers or suppliers
676-725	SWIVEL JOINT TYPE HSL 8	50	25.01.08	20,5	8,2	H. Henriksen Mek. Verksted AS PO Box 2404 3104 Tønsberg Norway
SERIAL NO.: <u>693</u> SOLD DATE: <u>19.11.08</u> Validity of this certificate: 5 years.* PRODUCED ON HHMV O.NR. P07-0002 TAKEN INTO SERVICE: <u>NOVEMBER 2008</u> EXPIRE DATE: <u>NOVEMBER 2013</u> * Valid for 5 years, which means we warrant the product free from faulty design, materials or workmanship during the warranty period. Swivel joints which is subject to more extensive use may need more frequent service/recertification.						

Name and address of the firm or competent person who witnessed and carried out thorough examination

H. HENRIKSEN MEK. VERKSTED A.S.
PO BOX 2404
3104 TØNSBERG-NORWAY

I certify that the above item of hook/lifting equipment were tested and thoroughly examined and no defects affecting their WLL were found.

Date: 25.01.08 Place: TØNSBERG

Signature:





DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-2315

This Certificate consists of 3 pages

This is to certify that the product
Release mechanism for lifeboats and rescue boats and liferafts
launched by a fall or falls

with the type designation(s)

HMK 8

Manufactured by

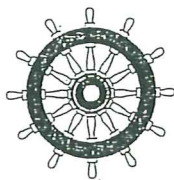
H. Henriksen Mek. Verksted A/S
TØNSBERG, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.26 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/34 & X/3, LSA Code, and 2000 HSC Code, 8.1 & 8.5

Further details of the product and conditions for certification are given overleaf.

Place and date
Høvik, 2004-06-30
for DET NORSKE VERITAS AS

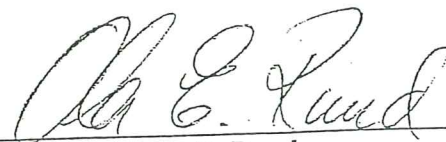

Henning B. Karlsen
Manager, MTPNO370
Department Systems & Components



Notified Body No. 0575

DNV local office:
DNV Sandefjord

This Certificate is valid until
2009-06-30


Ola E. Ruud
Surveyor

Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-2315
Case No.: EC-LS-17
File No.: A.1/1.26

Product description

Off load release hook with safe working load, SWL= 8,2 tonnes.

The hook may be used with optional swivel joint HSL 8,2

Applications/Limitations

- Grades of materials as stated on drawings are to be delivered with certificates.
- All welding is to be carried out by qualified welders and according to welding procedure acceptable to the attending surveyor.
- Extent of non-destructive testing is to follow an agreed plan.

Type Examination documentation

Drawing no.	Rev.	Title	Status
KR-1080	0	HMK 8.0 Sammenstilling	For info.
KR-1081	0	HMK 8.0 Sideplate, krok og pall	Approved
KR-1082	0	HMK 8.0 Håndtak og diverse deler	Approved

Tests carried out

Testing carried out 1993.09.17, witnessed by DNV, Porsgrunn.

Marking of product

The marking shall be according to the LSA Code, item 1.2.2.9

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.





Cert. No.: MED-B-2315
Case No.: EC-LS-17
File No.: A.1/1.26

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE



Declaration of Conformity (manufacturer)

DECLARATION OF CONFORMITY

We

H. Henriksen Mek. Verksted A/S
(suppliers name)

Træleborgveien 15, 3112 Tønsberg, Norway
(address)

declare under our sole responsibility that the product

HMK 8/HSL 8

(name, type or model, lot, batch or serial number, possibly sources and numbers of items)

to which this declaration relates is in conformity with the following standard(s) or other normative documents(s)

Annex A.1, item A.1/1.26 and Annex B, Module B in the directive SOLAS 1974 as amended, Regulation III/4, III/34 & X/3, LSA Code, and 2000 HSC Code, 8.1 & 8.5.

(title and/or number and date of issue of the standard(s) or other normative document(s))

(if applicable) following the provisions of

Council Directive 96/98 EC of 20 December 1996 on Marine Equipment, as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate

Tønsberg, 20.04.2000/26.08.2003/06.08.2004

(Place and date of issue)

Henrich N. Henriksen

(name and signature of equivalent marking of authorized person)





DET NORSKE VERITAS

EC TYPE-EXAMINATION CERTIFICATE

Application of: Council Directive 96/98/EC of 20 December 1996 on Marine Equipment as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate. This certificate is issued by Det Norske Veritas under the authority of the Government of the Kingdom of Norway.

CERTIFICATE NO. MED-B-2314

This Certificate consists of 3 pages

This is to certify that the product
**Release mechanism for lifeboats and rescue boats and liferafts
launched by a fall or falls**

with the type designation(s)

HMK 5

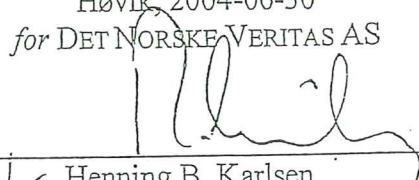
Manufactured by

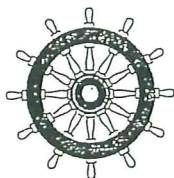
H. Henriksen Mek. Verksted A/S
TØNSBERG, Norway

is found to comply with the requirements in the following Regulations/Standards:
Annex A.1, item No. A.1/1.26 and Annex B, Module B in the Directive. SOLAS 74 as amended, Regulation III/4, III/34 & X/3, LSA Code, and 2000 HSC Code, 8.1 & 8.5

Further details of the product and conditions for certification are given overleaf.

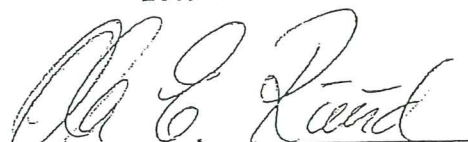
Place and date
Høvik, 2004-06-30
for DET NORSKE VERITAS AS


Henning B. Karlsen
Manager, MTPNO370
Department Systems & Components



Notified Body No. 0575

This Certificate is valid until
2009-06-30


Ola E. Ruud
Surveyor

DNV local office:
DNV Sandefjord



Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction of the product, or amendments to the Directive or Standards referenced above may render this certificate invalid. The product liability rests with the manufacturer or his representative in accordance with Council Directive 96/98/EC, as amended.

The Mark of Conformity may only be affixed to the product and a Declaration of Conformity may only be issued when the production/product assessment module referred to in the council directive, is fully complied with.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: MED-B-2314
Case No.: EC-LS-128
File No.: A.1/1.26

Product description

Off load release hook with safe working load 5,0 tonnes.

The hook may be used with optional swivel joint HSL 8,2

Applications/Limitations

- Grades of materials as stated on drawings are to be delivered with certificates.
- All welding is to be carried out by qualified welders and according to welding procedure acceptable to the attending surveyor.
- Extent of non-destructive testing is to follow an agreed plan.

Type Examination documentation

Drawing no.	Rev.	Title	Status
KR-1077	0	HMK 5.0 Sammenstilling	For info.
KR-1078	0	HMK 5.0 Sideplate, krok og pall	Approved
KR-1079	0	HMK 5.0 Håndtak og diverse deler	Approved

Tests carried out

Testing carried out in December 1991, witnessed by DNV, Høvik.

Marking of product

The marking shall be according to the LSA Code, item 1.2.2.9

Mark of conformity

The manufacturer is allowed to affix the Mark of Conformity  according to Article 11 in the Council Directive 96/98/EC on Marine Equipment and issue a Declaration of Conformity, only when the module D or E or F of Annex B in the same directive is fully complied with.





Cert. No.: MED-B-2314
Case No.: EC-LS-128
File No.: A.1/1.26

- Module D: The quality system for production and testing shall be approved by the Notified Body.
- Module E: The quality system for inspection and testing shall be approved by the Notified Body.
- Module F: Compliance of the products to type as described in this EC Type-Examination Certificate must be verified by the Notified Body who also shall issue a Certificate of Conformity.

END OF CERTIFICATE



[Signature]

Declaration of Conformity (manufacturer)

DECLARATION OF CONFORMITY

We

H. Henriksen Mek. Verksted A/S
(suppliers name)

Træleborgveien 15, 3112 Tønsberg, Norway
(address)

declare under our sole responsibility that the product

HMK 5/HSL 8

(name, type or model, lot, batch or serial number, possibly sources and numbers of items)

to which this declaration relates is in conformity with the following standard(s) or other normative documents(s)

Annex A.1, item A.1/1.26 and Annex B, Module B in the directive SOLAS 1974 as amended, Regulation III/4, III/34 & X/3, LSA Code, and 2000 HSC Code, 8.1 & 8.5.

(title and/or number and date of issue of the standard(s) or other normative document(s))

(if applicable) following the provisions of

Council Directive 96/98 EC of 20 December 1996 on Marine Equipment, as amended by directive 2002/75/EC, issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Directorate

Tønsberg, 20.04.2000/26.08.2003/06.08.2004

(Place and date of issue)

.....
Henrich N. Henriksen

(name and signature of equivalent marking of authorized person)



BESKRIVELSE FOR MONTERING AV HENRIKSEN SVINGLEDD

1. Svingleddet monteres i mellom innfestningsplatene på løfteåket på båten.
2. Montere boltene i hullet på svingleddet.
Disse boltene skal være av A4 kvalitet.
3. Sette på to låsemuttere av kvalitet A4..

HSL 3,5 M24 x 80 bolter med låsemuttere moment 50 Nm
HSL 8 M30 x 90 bolter med låsemuttere moment 60 Nm
HSL 15 M36 x 75 bolter med låsemuttere moment 70 Nm

4. Svingleddet er klar til bruk.

rev. 0 19.09.03 agj
rev. 01 25.10.06 agj



MOUNTING DESCRIPTION FOR HENRIKSEN SWIVEL JOINTS

1. Assemble the swivel joint between the plates on the lifting arrangement on the boat.
2. Fix the bolts in the hole on the swivel joint.
Those bolts shall be of quality A4 70.
3. Mount two locknuts of type A4 nylock.

HSL 3,5 M24 x 80 bolts with locknuts	moment 50 Nm
HSL 8 M30 x 90 bolts with locknuts	moment 60 Nm
HSL 15 M36 x 75 bolts with locknuts	moment 70 Nm

4. The swivel joint is now ready for use.

rev 0 19.09.03 agj
rev. 01 25.10.06 agj



VEDLIKEHOLDSPROSEDYRE

Årlig kontroll av HENRIKSEN SVINGLEDD FOR HENRIKSEN UTLØSER KROKER

- 1 **Denne kontroll utføres av brukerorganisasjonens vedlikeholds-personell.**
NB: Av sikkerhetsmessige årsaker bør kontrollen utføres under gode lysforhold.
- 2 **Rensing/vasking**
Fjern alle urenheter (salt, fett, støv etc) ved å vaske med vann).
- 3 **Visuell kontroll**
Kontrollør at følgende deler er i orden og fri for deformasjoner
 - foring
 - merke- og instruksjonsskilt
 - plateneEtterfyll fett hvis nødvendig.
- 4 **Test**
 - Kontrollør at alle bevegelige deler løper fritt.
- 5 **Innfesting**
Kontrollør at svingleddets innfesting er fri for mekaniske defekter (deformasjoner, sprekker, slitasje etc.). Dersom svingleddet er fjernet fra innfesting skal muttere skiftes. (syrefaste) M30, A4 for HSL 8 – M24, A4 for HSL 3,5 -M36, A4 for HSL 15 .

Rev. 1 24.11.03 agj



MAINTENANCE PROCEDURE

Annual control of HENRIKSEN SWIVEL JOINT FOR HENRIKSEN QUICK RELEASE HOOKS

- 1 **The control to be performed by users/maintenance personnel.**
Note: For safety reasons, carry out the control in good lighting conditions.
- 2 **Rinsing/Cleaning**
Remove all resistant solids (salt, grease, dust etc.) by using fresh water only.
- 3 **Visual Inspection**
Check that the following parts are OK and free of deformations
 - bushing
 - identification lable
 - supports
Refill grease if necessary.
- 4 **Test**
Check that all moveable parts are running free.
- 5 **Fastening**
Inspect the swivel joint fastening for mechanical defects (deformation, cracks, wear & tear etc.) In case of removal of the swivel joint from its mounting, the nylocknuts (stainless) must be renewed - M30, A4 for HSL 8 – M24, A4 for HSL 3,5 - M36 , A4 for HSL 15 .

Rev. 1 24.11.03 agj



H. HENRIKSEN
MEK. VERKSTED A/S

WARRANTY

Product: HENRIKSEN SWIVEL JOINT TYPE HSL 8

The Manufacturer guarantee each new swivel joint to be free from defects in material and workmanship for 5 years after date taken into service.

This guarantee requires annual control by user, ref. maintenance procedure, to be taken care of.

The warranty does not include damage caused by overloading, accident, mis-application or any other misuse.

No other person, agent or dealer is authorised to do any repairs on this product!

rev. 1 050204 agj
rev.02 190906 agj