



NAVALIMPIANTI - TECNIMPIANTI

G R O U P

The present technical bulletin contains technical information aimed to support/improve Navalimpianti-Tecnimpianti equipment.

TECHNICAL BULLETIN Nr.:

004/12

FREE WHEELS

This Technical Bulletin applies to:

All Navalimpianti-Tecnimpianti winches for lifeboats' launching appliances.

advanced marine solutions

TECHNICAL BULLETIN

Description:

Navalimpianti-Tecnimpianti winches for lifeboat davits employ free wheels to allow their gear train to rotate while hoisting without the need for the brakes to be released simultaneously, and to prevent rotation of the hoist motor shaft when power is shut off.

The lifespan of a free wheel depends on the

- Total working hours
- Total number of insertion
- Service time-span
- Vibrations
- Overloads
- Not proper lubricant

Depending on the winch type, should a free wheel fail in operation, a lifeboat can lower uncontrollably.

According to the Operating and Maintenance Manual on board, the free wheel shall be replaced every time some brake malfunctioning or some skid of the load happens.

Being the free wheel an essential winch component, it is also recommended to inspect it according to the Operating and Maintenance Manual on board, and to replace it according to the following service intervals, whichever occurs first:

- After 1.500 working hours
- After 2000 insertions (for electric hoist winches)
- After 4000 insertions (for hydraulic hoist winches)
- After 5 years

Hours and/or hoist insertion counters are provided on many winch starters according to customer requirements, and they usually may also be retrofitted to existing equipments.

The above service intervals are based on use according to the Operating and Maintenance Manuals.

Recommendations

1. File this bulletin within Operating and Maintenance Manual on board
2. Avoid impulsive hoist/pulse insertion on winches with electric hoist. Free wheels can be stressed and damaged even within the average service interval.
3. Use only Navalimpianti-Tecnimpianti original spare parts. Original free wheels have improved/increased safety factor for the specific application.
4. Inspections, service and repairs shall be performed by Navalimpianti-Tecnimpianti qualified technicians
5. Record any spare part replacement into the log book
6. Always involve Navalimpianti-Tecnimpianti for modifications and retrofittings so to allow safety, traceability and life cycle support.

Should you require more information on possible implementation of improvements on your Navalimpianti-Tecnimpianti equipment please refer to your preferred Navalimpianti-Tecnimpianti service center.



NAVALIMPIANTI GROUP

Head Office
Salita Guardia, 60A - 16014 Ceranesi (GE) Italy
Ph +39 01072371
Fax +39 010710173
navim@navim.com

Branch Office
Via Terza Armata, 18 - 34074 Monfalcone (GO) Italy
Ph +39 0481430111
Fax +39 0481410653
navimmo@navim.com

Branch Office
Via dei Pescatori Z.I. Porto - 16129 Genova Italy
Ph +39 0102461013 +39 0102461113
Fax +39 0102471030
navimge@navim.com

NAVALIMPIANTI - USA INCORPORATED

NAVALIMPIANTI USA, Inc.
900 NW 10th AVE - Fort Lauderdale, FL 33311 USA
Ph +1 9545857041
Fax +1 9545857042
navimusa@navim.com

NAVALIMPIANTI JAPAN

NAVALIMPIANTI JAPAN
Suite 904, 2-4-5
Shibadai Mon Minato-ku - Tokyo 105-0012 Japan
Ph +81 3 54723399
Fax +81 3 34382229
navimjapan@navim.com

NAVALIMPIANTI GERMANY

NAVALIMPIANTI GERMANY
Mittelkanal Linke 88
26871 Papenburg
Germany

TECNIMPIANTI

TECNIMPIANTI SpA
Zona Industriale
Str. Consortile Fiume Torto - 30018 Termini Imerese (PA) Italy
Ph +39 0918140283
Fax +39 0918140325
info@tecnimpiantiropa.com

NAVALIMPIANTI PULA

NAVALIMPIANTI PULA
Mlečacka, 12 - 52100 Pula Hrvatska
Ph +385 52216590
Fax +385 52216590
navimpula@navim.com

NAVALIMPIANTI CHINA

NAVALIMPIANTI CHINA
Unit 1101 A Xin Cheng Mansion
No 167 Jiang Ning Rd. - 200041 Shanghai P.R. China
Ph +86 2162587116
Fax +86 2162587169
navimchina@navim.com

TECNIMPIANTI ANTWERP

TECNIMPIANTI ANTWERP
B-9130 Beveren, Blikken, Kaal 1333 Belgium
Ph +32 35709949
Fax +32 35709948
info@tecnimpiantiropa.com