

TECHNICAL DATASHEET
NPDS 3500H



Date	Rev.	Reason for issue	Prep.	Check.	Appr.
03.07.2015	02	Updated information	KHL	IJH	BY
19.12.2016	03	Updated logo, template	BY	TSE	AE

Legal notice: This document and its content is the property of PALFINGER MARINE SAFETY AS and may not be reproduced, transferred or issued to others without written permission.

Certification

- Applicable rules and regulations : In accordance with IMO/ SOLAS requirements, LSA Code and European Council Directive 96/98 EC on Marine Equipment (MED).
- Certification authority : DNV GL (other on request)

Davit

- Model : Totally enclosed davit
- Type : NPDS 3500H
- Weather protection level : High. All major components are inside the davit
- Application : Rescue boat handling
- Drawing reference : I-1078-000
- Execution : Hydraulic pivoting davit
- Boarding position : Inboard
- Safe Working Load (SWL) : 3200 kg
- Trim / list conditions : 10° / 20°
- Std. lowering height : 18 m (at 0° / 0°)
- Max. lowering / hoisting speed : Hydraulically 18 m/min
- Max. lowering speed (emergency) : According to SOLAS regulations ($S = 0.4 + 0.02H$)
- Hoisting (emergency) : Manually (by means of hand pump)
- Pivot bearing type : Lubricating free
- Wire sheaves : Lubricating free
- Installation : 3 (three) deck welding points only (reduced installation time)
- Deck reinforcement requirements : See general arrangement
- Total system weight : 3080 kg (including winch)
- Total system H / W / D : 3615 mm / 1282 mm / 3145 mm
- Deck space required : 4 m² only (including hydraulic system)
- Operation temperature : -20°C till +50°C (other on request)

Winch

- Type : NW 3500H
- Drawing reference : I-1078-000
- Execution : Hydraulically hoisting / lowering
- Brakes type : Negative multi-disk brakes with hydraulic opening control
- Speed control : Two-step speed control included for safer operation

Electric System

- Electric power supply : 440/3ph/60Hz (other on request)
- Electrical cabinet : IP66
- Pendant control : IP66
- Limit switch : IP67
- Power consumption : 21 kW
- Starting method : Direct on line
- Duty rating : S2-5 min
- Motor space heating : Included
- Electrical cabinet space heating : Included
- Wiring : Included, (only power supply cable required)

Legal notice: This document and its content is the property of PALFINGER MARINE SAFETY AS and may not be reproduced, transferred or issued to others without written permission.

- Cables type : Marine type, flame retardant halogen free

Hydraulic System

- Type : Independent integrated hydraulic system
- Oil flow : 45 l/min
- Max. working pressure : 240 bar
- Oil amount : 180 l
- Hydraulic accumulators : 2 x piston type (19 l)
- System fittings : ISO 8434-1 (DIN 2353) cutting ring fittings
- Materials : Fittings and hose fittings - steel zinc plated Cr(VI)-free
Pipes - E355 Cr(VI)-free
- UV and weather protection : Shielded from environmental exposure

Wire Rope

- Wire rope type : Galvanized, non-rotating (certified item)
- Wire rope diameter : 16 mm
- Wire rope construction : 35x7
- Inner / outer wire end : Secured to drum / thimble
- Shackle : Included (certified item)
- Master link w/handle : Included (certified item)

Painting System

- Painting system : Included
- Blasting : SA 2.5
- Coating : Three (3) layers (other on request)
Layer 1 Interseal 670 HS - 100 µm - Alu
Layer 2 Interseal 670 HS - 100 µm - Grey
Layer 3 Interthane 990 - 50 µm - RAL 9003
- Total dry film thickness : 250 µm

Boat Charger

- Transformer : Included, 440/42VAC (other on request)

Remote Control

- Type : Pushbutton, 5 buttons
- Lowering control : Yes, two-step speed control (hydraulic)
- Hoisting control : Yes, two-step speed control (hydraulic)
- Emergency stop : Yes, mushroom type

Optional Items

- Ladder : Embarkation ladder
- Shock absorber : Hydraulic type, absorb and damp shock impulses
- Winterization / cold climate : Entire davit heating (not only e-cabinet), special steel (-40°C)
- Metallizing : Thermal spraying (extra corrosion protection of surface)
- Ex-proof : II 2 G Ex de IIB T3 (other on request)
- Anti-sway system : Stable and efficient pivoting operation (out / in)
- Boat supports : Additional stability of boat in stowed position

Legal notice: This document and its content is the property of PALFINGER MARINE SAFETY AS and may not be reproduced, transferred or issued to others without written permission.

- Aluminum hinges : Aluminum deck installation
- Skid : Mobile and onshore installation
- Additional lowering height : 19 - 36 m (at 0° / 0°)

Legal notice: This document and its content is the property of PALFINGER MARINE SAFETY AS and may not be reproduced, transferred or issued to others without written permission.