







DECK EQUIPMENT					
POS.	QUAN.	NAME	SUPPLIER	TYPE/DRAWING NUMBER	REMARKS
01	1	CTD WINCH			
02	1	GENERAL PURPOSE WINCH			
03	1	CTD/LADY/TS-SOAGE/CAN-POD WINCH			
04	1	WORKING WINCH			
05	1	BENTHOS SLUDGE WINCH			
06	1	WALL PURPOSE ELECTRICAL/ADPICAL TOW-WINCH			
07	1	WIND CRAB WINCH			
20	2	TRAIL WINCH			
21	1	RELAYING NET DRUM			
22	1	BOTTOM TRAIL SPLIT NET DRUM			
23	1	OLSON WINCH			
24	1	OUT HAUL WINCH			
25	1	PLANKTON NET WINCH			
27	1	ANCHOR WINCH			
28	4	WORKING CAPSTAN			
29	3	AUXILIARY WINCH			
32	1	A-FRAME, AFT			
33	1	A-FRAME, SIDE			
34	1	MAIN DECK CRANE	TRIPLEX	KW-120 / 14619	
35	1	AFT DECK CRANE, REE SIDE	TRIPLEX	KWR-80 / 15878	W/NET ROLLER
36	1	AFT DECK CRANE, STB SIDE	TRIPLEX	KW-30 / 14782	KNICKLE BOW CRANE w/TELESCOPE
37	1	PROVISION CRANE, FORWARD			
38	1	CTD DAVIT			

**MAIN DIMENSION:**

LENGHT O.A. 74.50 m  
 LENGHT P.P. 66.10 m  
 BREADTH 17.40 m  
 DEPTH TO MAIN DECK 5.90 m  
 DEPTH TO 1st DECK 11.40 m  
 DEPTH TO 2nd DECK 14.10 m  
 FRAME SPACING 600 mm

ACCOMMODATION FOR 45 PERSONS - 15 OFFICERS/CREW  
 - 30 SCIENTIST

CLASS: DNV +1A1, EO, ICE-C, SPS, DYNPOS-AUT, NAUT-AW, COMP-C(2)V(2), BWM-T, TMON, Recyclable, CLEAN

COMPLIANT WITH IMO Res. MSC.266(84) Code of Safety for Special Purpose Ships 2008

**ST-369**

REV:	DESCRIPTION:	DATE APPR:	DATE REV:	SIGN:
A	First GA after shipbuilding contract		03.04.2014	JP/sgp
B	STEEL BULKHEADS ADDED ACC. TO RULES, VENT. DUCTS, REW. MACH. ROOM ADDED, ETC.		12.05.14	JV/sgp
C	REVISED ACC. TO COMMENTS, REVISED WINCHES/CRANES AND WINDOR STRUCTURAL CHANGES.		04.07.14	JV/POB
D	REVISED, GENERAL UPDATES.		12.09.14	JV/POB
E	GENERAL UPDATES.		17.10.14	JV
F	GENERAL UPDATES AND ACC. TO COMMENTS.		18.12.14	POB/JV
G	GENERAL UPDATES AND ACC. TO COMMENTS.		12.02.15	POB/JV
H	REVISED, UPDATES.		27.04.15	POB
I	REVISED, UPDATES.		15.09.15	POB
J	REVISED, UPDATES.		18.01.16	POB

HI PROJECT NO. 14259: DR. FRIDTJOF NANSEN REPLACEMENT  
**Dr. FRIDTJOF NANSEN 460**  
**GENERAL ARRANGEMENT 1:150** DATE: 04.01.2013  
 PROJECT NO. 2013038  
**Skipsteknisk**  
 CONSULTING NAVAL ARCHITECTS AND MARINE ENGINEERS  
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 460-101-001-J

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# Jotspec

## Technical specification Dry Dock



<b>Owner:</b>	HAVFORSKNINGSINSTITUTTET	<b>Vessel name:</b>	DR. FRIDTJOF NANSEN		
<b>Yard:</b>		<b>IMO:</b>	9762716	<b>Version:</b>	1
<b>Management:</b>	HAVFORSKNINGSINSTITUTTET	<b>Hull no:</b>	460	<b>Date:</b>	31.08.2020
<b>Project:</b>	DR. FRIDTJOF NANSEN DD 2020				
<b>Prepared by:</b>	Vidar Oldervik - Jotun Coatings				

# Summary



<b>Project</b>	DR. FRIDTJOF NANSEN DD 2020	<b>Prepared by</b>	Vidar Oldervik - Jotun Coatings	<b>Version</b>	1
<b>Customer</b>	HAVFORSKNINGSINSTITUTTET	<b>Approved by</b>	Vidar Oldervik	<b>Date</b>	31.08.2020
<b>Location</b>					

## The paint specification(s) include(s) the following positions and areas

<b>Position</b>	<b>Area</b>	<b>m<sup>2</sup></b>
Flat Bottom (From bilge keel to bilge keel)		1200
Side bottom (From bilge keel to scantling draft)		850
Marking on side shell, below scantling draft		1
	<b>Total</b>	2051

## Summary of products and volumes

<b>Product</b>	<b>Consumption (l)</b>	
JOTAMASTIC 90,ALUMINIUM RED TONED	146	
PIONER TOPCOAT,WHITE	0	
SAFEGUARD UNIVERSAL ES,PLUM	71	
SEAQUANTUM ULTRA S,DARK RED	591	
SEAQUANTUM ULTRA S,LIGHT RED	231	
JOTUN THINNER NO. 07,CLEAR	41	
JOTUN THINNER NO. 17,CLEAR	11	
	<b>Total</b>	1091



# Technical specification



<b>Project</b>	DR. FRIDTJOF NANSEN DD 2020	<b>Prepared by</b>	Vidar Oldervik - Jotun Coatings	<b>Version</b>	1
<b>Customer</b>	HAVFORSKNINGSINSTITUTTET	<b>Approved by</b>	Vidar Oldervik	<b>Date</b>	31.08.2020
<b>Location</b>					

<b>Position</b>	<b>Flat Bottom (From bilge keel to bilge keel)</b>	<b>Area</b>	1200 m <sup>2</sup>	<b>No.</b>	1
<b>Surface Prep.</b>	Oil and grease etc. to be removed with a suitable detergent. The entire area to be high pressure fresh water washed at min. 350 bar in order to remove salts and other contamination. When surface is dry the corroded and damaged areas are to be blast cleaned to Sa 2 (ISO 8501-1). Edges to intact paint system to be feathered.				

Product	Type of coat	Area to paint %	Vol. solids %	Filmthickness (µm)		Loss (%)	Recoating intervals						Thinner		Consumption (l)		
				Dry spec.	Wet spec.		10°C		23°C		40°C		No.	Max %	Theor.	Practical	
							Min	Max	Min	Max	Min	Max					
JOTAMASTIC 90,ALUMINIUM RED TONED	TU	20	80	200	250	30	10 h	14 d	3 h	7 d	1.5 h	7 d	17	5	60	86	
SAFEGUARD UNIVERSAL ES,PLUM	TU	20	62	75	121	30	18 h	8 d	10 h	7 d	6 h	7 d	17	5	29	41	
SEAQUANTUM ULTRA S,DARK RED	FC	100	50	105	210	30	9 h	*	7 h	*	6 h	*	7	5	252	360	
<b>Total</b>				<b>380</b>													

**Remarks:** A/F thicknesses shown for vessel trading at approx. 10 knots sailing approx. 50% for 36 months under normal trading conditions in an average seawater temperature of approx. 25°C and assumes the existing coatings are in a sound condition.



# Technical specification



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<b>Customer</b>	HAVFORSKNINGSINSTITUTTET	<b>Approved by</b>	Vidar Oldervik	<b>Date</b>	31.08.2020
<b>Location</b>					

<b>Position</b>	<b>Side bottom (From bilge keel to scantling draft)</b>	<b>Area</b>	850 m <sup>2</sup>	<b>No.</b>	2
<b>Surface Prep.</b>	Oil and grease etc. to be removed with a suitable detergent. The entire area to be high pressure fresh water washed at min. 350 bar in order to remove salts and other contamination. When surface is dry the corroded and damaged areas are to be blast cleaned to Sa 2 (ISO 8501-1). Edges to intact paint system to be feathered.				

Product	Type of coat	Area to paint %	Vol. solids %	Filmthickness (µm)		Loss (%)	Recoating intervals						Thinner		Consumption (l)	
				Dry spec.	Wet spec.		10°C		23°C		40°C		No.	Max %	Theor.	Practical
							Min	Max	Min	Max	Min	Max				
JOTAMASTIC 90,ALUMINIUM RED TONED	TU	20	80	200	250	30	10 h	14 d	3 h	7 d	1.5 h	7 d	17	5	43	61
SAFEGUARD UNIVERSAL ES,PLUM	TU	20	62	75	121	30	18 h	8 d	10 h	7 d	6 h	7 d	17	5	21	29
SEAQUANTUM ULTRA S,LIGHT RED	FC	100	50	95	190	30	9 h	*	7 h	*	6 h	*	7	5	162	231
SEAQUANTUM ULTRA S,DARK RED	FC	100	50	95	190	30	9 h	*	7 h	*	6 h	*	7	5	162	231
				<b>Total</b>	465											

**Remarks:** A/F thicknesses shown for vessel trading at approx. 10 knots sailing approx. 50% for 36 months under normal trading conditions in an average seawater temperature of approx. 25°C and assumes the existing coatings are in a sound condition.



# Technical specification



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<b>Customer</b>	HAVFORSKNINGSINSTITUTTET	<b>Approved by</b>	Vidar Oldervik	<b>Date</b>	31.08.2020
<b>Location</b>					

<b>Position</b>		<b>Marking on side shell, below scantling draft</b>						<b>Area</b>			1 m <sup>2</sup>	<b>No.</b>		3		
<b>Surface Prep.</b>																
Product	Type of coat	Area to paint %	Vol. solids %	Filmthickness (µm)		Loss (%)	Recoating intervals						Thinner		Consumption (l)	
				Dry spec.	Wet spec.		10°C		23°C		40°C		No.	Max %	Theor.	Practical
PIONER TOPCOAT,WHITE	FC	100	34	50	147	30	4 h	*	2 h	*	1.5 h	*	7	5	0	0
<b>Total</b>				50												

Remarks:





\* please refer to the relevant technical datasheets and AG application guide for recoating and curing conditions  
NR: Not recommended for this exposure or generic type:

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