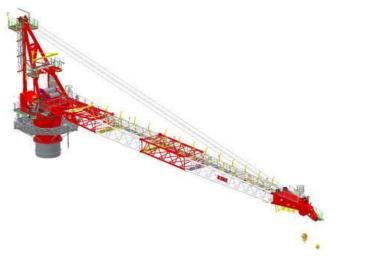


Zuiddijk 400 1500EE Zaandam NL PO box 235 Tel:+31-(0)756810410





typical drawing of rope luffing crane

Customer: POSH Semco

Project:

Client ITT No.:

Our Project: P324N001

Crane type: DHC 100/4000 O.S. Issue: 0020/001 Rev. 1

Preparation date:
Prepared by:

Checked by:



Comment Rev

	Comment	Re
General		
Installation	Vessel	
Location	World wide	
Type of Crane	Diesel Hydraulic Pedestal Rope luffing Crane (DHC)	
		-
Type of Boom	Multiple section lattice boom	
Type of Operation	Unloading and backloading of supply vessels	
	Working within the confines of the Installation	
	Man-riding SWL 1500kg on Aux Hoist	
References General Plan drawing		
Load/radius curves		
Eduaridado Carvos		
Design considerations		
Crane Structural Design Life [Years]	25	
Failure Mode Philosophy	Main frame including cabin will be the last in the failure sequence	
Ambient temperatures		
Minimum [°C] Maximum [°C]	-10 +40	
Structural design temperature [°C]	-10	
Relative humidity	Up to 100%	
·······································		
Wind speed		
In operation[m/s]	25 (3 sec. Gust 30)	
Stored [m/s]	60 (3 sec. Gust 70) in boomrest only	
Maximum Pedestal inclination [º]	1	
Underside of Slew Bearing to Sea level [m]	18 To be confirmed	
Boomrest position [m]	40 To be confirmed	
		-
Area classification		
Crane Zone	Safe area	
Gas group Temperature Class	•	
remperature class	<u> </u>	
Boom Zone	Safe area	
Gas group		
Temperature Class	•	
Crane Duty-Cycle Classification	Intermediate Duty	
Dynamic Force Calculation Method	General Method	
		-
Codes and requirements		
General Certification	ABS	
Main Design Codes	API 2C, 7th edition	
ivialii Desigri Codes	7 ii 120; 7 ii 1 0 au 0 1	
Structural design guidelines		
Crane & mechanism classification	API 2C, 7th edition	
Fattique Fabrication tollerances	API 2C, 7th edition EN 10034	
Structural material	EN 10034 EN 10025	
Material certification	EN 10204	
Welding codes	AWS D1.1	
Fasteners	DIN125 (Washers), DIN912, DIN931, DIN933 (Bolts), DIN934, DIN985 (Nuts),	
Studbolts	EN-ISO 898-1	
Protective coating		
Surface preparation	EN-ISO 8501-1	
Paint system	ISO 12944	
Hot dip galvanising	EN-ISO 1461	
Electric design guidelines		
	EN 50014, 18, 19, 20, 28 and 39	
Fination	IEC 60079 part 10, 14, 17	
E-motor	IEC 60034 EMC (electromagnetic compatibility)	
	(group companions)	
Hydraulic design guidelines		
Hydraulic system	ISO 4413	
Pressure vessels	PED	
Hydraulic hoses	EN 856	

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			Comment
Performance Data			
Lifting Capacity			
	Main Hoist		
	Deck lift	100t @ 14m	
	Off-board lift	60t @ 17,5m up to SWH 0,5m	
	Aux. Hoist	See Load / Radius curve	
	Deck lift	15t @ maximum radius	
	Off-board lift	15t @ maximum radius up to SWH 1,0m	
	Man-riding	1,5t @ maximum radius up to SWH 2,0m	
D 14/ 1: 4 1			
Boom Working Angles		10.50	
	Minimum Boom angle	18,5°	
	Maximum Boom angle	82° 9°	
	Boom storage angle	8	
Number of falls			
Number of falls	Main Hoist	4-fall, 3-fall and 2-fall	
-	Aux. Hoist	1-fall	
	Boom hoist	2x6-fall	
	Boom noist	ZXO-Idii	
Hook Speeds ± 5%		Infinite variable speeds 0-max, with load dependent speed	
TIOOK OPCCUS 2 070		minite variable speeds o max. with load dependent speed	
Main Hoist	Fall arrangement	4-fall 3-fall 2-fall	
Wall Holdt	Max. SWL	Acc. Main design code	
	Empty hook	Acc. Main design code	
	1.2	· ·	
Aux Hoist	Fall arrangement	1-fall	
	Max. SWL	Acc. Main design code	
	Empty hook	Acc. Main design code	
Hook Elevation		Measured from underside slewbearing till highest hook position	@ minimum radius
		Main hoist Aux. Hoist	
	Fall arrangement	4-falls 1-fall	
	Elevation [m]	65 70	
Luffing time +/- 5%		max. to min. working radius	
	Empty hook	Acc. Main design code	
	With max allow. load	Acc. Main design code	
Slewing			
	Slewing Range	n x 360° Unristricted slewing by the use of slip ring unit incl	option for slewing envelope
	Slewing speed ± 5%	0,6 rpm	
-			
Simultaneous operatio	n		
		One function with full load and speeds	
		Three functions simultaneous with reduced speeds	

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ssue	0020/001 Rev. 1		Comment
Crane			
		Dimensions	See general arrangement drawing
		Weights	See general arrangement drawing
Pedestal Adap	oter	Caana	1.2m Dadastal adastas
		Scope	1,3m Pedestal adapter
		Design Loads	The design loads will be provided by VDRS Document
		Interfaces	Interface data with slewbearing and other components will be provided by VDRS document
		menaces	mended data with stownsearing and other components will be provided by VDNs declaration
Main Frame	Martin and	A de de	On the DUO and LUO of the Main France
	Walkway's	Main Catwalk	On the RHS and LHS of the Main Frame At each side of operator's cabin for window cleaning and wiper servicing
	Access	Outside	Ladder from pedestal walkway, located on the cabin side
		Inside	Hatch on top of main frame, ladder inside Main Frame
		Gate	N/A
A-Frame			
I will		Walkway	At the top of the A-Frame, U-shape for access to sheaves
		Access	Ladder from mainframe
		Gate	Self-closing at ladder opening in railing
		Boomstop	Pubbar haamatannara
		Боотівтор	Rubber boomstoppers
		Lubrication	Centralised grease nipples for sheave bearing lubrication on shaft ends.
_			
Boom	General		
	General	Туре	Multiple section lattice boom
	S	ection connection	Bolted
		Hook storage	Suitable for Main Hoist hook block
	Pivot Section		
		Pivot bearings	Spherical ball bearings, requiring maintenance type
		Lubrication	Grease nipples trough shafts
			Mechanical radius indicator, visable from operator cabin
	Boom head		
	Lubrication	sheave bearings	Lubrication points equipped with grease nipples.
Slew Mechani	sm		
	Slew Bearing		
		Description	Large diameter anti-friction roller bearing
-	·	Туре	Triple Row Roller Bearing
		Make	Rothe Erde or equivalent
		Material of Rings	42CrMo4 V
	Nomin	nal Diameter [mm]	4000
		Safety feature Gear	Retainer device Internal
		Fasteners	Stud bolts with HV washers and nuts
		Removal	Crane and pedestal* fitted with brackets for jacking of crane and bearing removal
·			
	1.	Maintenance ubrication bearing	Centralized lubrication point equipped with grease nipples.
	L		Manual by spraying or brush
		Lubrication teeth	
		Inspection	
		Inspection Play	Dedicated points for rocking test
		Inspection	
		Inspection Play	Dedicated points for rocking test
	Slew gear	Play Wear Type	Dedicated points for rocking test Grease sampling points Multi stage planetary gearbox with splash oil lubrication
	Slew gear	Play Wear Type ew gears installed	Dedicated points for rocking test Grease sampling points Multi stage planetary gearbox with splash oil lubrication 4-off Finalised during detail engineering
	Slew gear	Inspection Play Wear Type aw gears installed Adjustment	Dedicated points for rocking test Grease sampling points Multi stage planetary gearbox with splash oil lubrication 4-off Finalised during detail engineering Excentric for adjustable back-lash
	Slew gear	Play Wear Type ew gears installed	Dedicated points for rocking test Grease sampling points Multi stage planetary gearbox with splash oil lubrication 4-off Finalised during detail engineering
	Slew gear	Play Wear Type ew gears installed Adjustment Brake (parking)	Dedicated points for rocking test Grease sampling points Multi stage planetary gearbox with splash oil lubrication 4-off Excentric for adjustable back-lash Spring loaded hydr released multi disc brake

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Winches, Wire Ropes, Sheaves and I	looks	Comment	F
Main Hoist Winch			
Winch			
Frame	Туре	Welded construction	
Liftii	ng lugs	To be included	
	Safety	Rope guards to prevent "rope over the flange" situation	
Drum	Туре	Welded construction	
Type of gr		LeBus type	
Drum di		Drum diameter : rope diameter ratio = ≥ 18:1	
Rope ca		Sufficient for agreed maximum hook travel at minimum radius	
Number of dea		5	
Rope and	horage	Weak link for emergency rope release	
Rope anchorage cap		10-20% of MBL but minimum 50% of max. nominal line pull	
Limit s	ettings	By means of drum installed encoder	
Coarboy		Multi stage planetary georgest with eplach oil lubrication	
Gearbox		Multi-stage planetary gearbox with splash oil lubrication	
Brakes P	arking*	On input shaft of gearbox, cappacity 150% of maximum rope pull excluding factors	
	/namic	By motor and pump running in closed loop	
	note*	Parking brakes are of the fail-safe spring loaded hydraulic released multiple disc brakes	
Hydraulic motor	Туре	Variable displacement high pressure piston motor, bent-axis type including constant	
		power control for low speed-high torque and Including directly mounted safety	
		and lock valve and automatic' pressurisation to avoid load drop at rotation start	
Maintenana			
Maintenance	earhor	Oil level check, oil drain and oil filling plug	
Support k	earbox earing	Oil level check, oil drain and oil filling plug Lubrication through grease nipple	
- Зирроп к	caring	Lubrication through grease hippie	
Rope			
- F	Make	Bridon or equivalent	
	Туре	Non-rotating	
Grade [N		1960	
Rope safety		Acc certifying authority	
	rvation	All ropes galvanized and greased	
Dead end term	ination	Open spelter socket	
Sheaves			
Groove di	ameter	Groove diameter : rope diameter ratio = ≥ 18:1	
	ng type	Sealed anti-friction with greasing through shaft	
Hook	Туре	Multiple-sheave hookblock with top-connection	
Fall arrange		4-fall, 3-fall and 2-fall	
Number of si		3	
	ok type	Acc DIN 15401	
Hook safet		Included, spring-loaded safety latch incl positive lock	
	swivel	Acc DIN 15411 Suitable for correct specifing and lowering of emby book	
Dead weig	iii [kgj	Suitable for correct spooling and lowering of emty hook	
Aux Hoist Winch			
Winch			
Frame	Туре	Welded construction	
	ng lugs	To be included	
	Safety	Rope guards to prevent "rope over the flange" situation	
	_		
Drum Time of a	Type	Welded construction	
Type of gr		LeBus type	
Drum di		Drum diameter : rope diameter ratio = ≥ 18:1 Sufficient for agreed maximum book travel at minimum radius	
Rope ca Number of dea		Sufficient for agreed maximum hook travel at minimum radius 5	
Rope and		Weak link for emergency rope release	
Rope anchorage ca		10-20% of MBL but minimum 50% of max. nominal line pull	
Limit s		By means of drum installed encoder	
		·	
Gearbox	-	Multi-stage planetary gearbox with splash oil lubrication	
	arking*	On input shaft of gearbox, cappacity 150% of maximum rope pull excluding factors	
D	namic	By motor and pump running in closed loop	
	note*	Parking brakes are of the fail-safe spring loaded hydraulic released multiple disc brakes	
Hydraulic motor	Type	Variable displacement high pressure histon motor, bent-axis type including constant	
Hydraulic motor	Туре	Variable displacement high pressure piston motor, bent-axis type including constant power control for low speed-high torque and Including directly mounted safety	
		and lock valve and automatic' pressurisation to avoid load drop at rotation start	
		and datomatic procession to avoid load grop at rotation start	
Maintenance			
	earbox	Oil level check, oil drain and oil filling plug	
Support to		Lubrication through grease nipple	
			· ·

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279	Rope	Odilinoit No.
280	Make	Bridon or equivalent
281	Туре	Non-rotating
282	Grade [N/mm2]	1960
283	Rope safety factor	Acc certifying authority
284	Preservation	All ropes galvanized and greased
285	Dead end termination	Open spelter socket
286	04	
287	Sheaves	Cracus diameters years diameter ratio = > 10.1
288 289	Groove diameter	Groove diameter : rope diameter ratio = ≥ 18:1 Sealed anti-friction with greasing through shaft
290	Bearing type	Sealed anti-inction with greasing through shart
291	Hook Type	Hookblock with top connection
292	Fall arrangements	1-fall
293	Number of sheaves	Not Applicable
294	Hook type	Acc DIN 15401
295	Hook safety latch	Included, spring-loaded safety latch incl positive lock
296	Hook swivel	Acc DIN 15411
297	Dead weight [kg]	Suitable for correct spooling and lowering of emty hook
298		
299 Boom Hoist \	Winch	
300	Winch	
301	Frame Type	Welded construction
302	Lifting lugs	To be included
303	Safety	Rope guards to prevent "rope over the flange" situation
304		
305	Drum Type	Welded construction
306	Type of grooving	LeBus type
307	Drum diameter	Drum diameter : rope diameter ratio = ≥ 18:1
308	Rope capacity	Sufficient for boom travel between minimum and maximum boom angles
309	Number of dead turns	5
310	Rope anchorage Rope anchorage cappacity	by clamps to winch drum 100% of MBL
311 312	Limit settings	By means of drum installed encoder
313	Limit Settings	by means of drum mataned encoder
314	Gearbox	Multi-stage planetary gearbox with splash oil lubrication
315	Gearbox	industage planetary gearbox with splash of industration
316	Brakes Parking*	On input shaft of gearbox, cappacity 150% of maximum rope pull excluding factors
317	Dynamic	By motor and pump running in closed loop
318	note*	Parking brakes are of the fail-safe spring loaded hydraulic released multiple disc brakes
319		
320	Hydraulic motor Type	Variable displacement high pressure piston motor, bent-axis type including constant
321		power control for low speed-high torque and Including directly mounted safety
322		and lock valve and automatic' pressurisation to avoid load drop at rotation start
323		
324	Maintenance	
325	Drum holding device	Means to be installed for locking the drum. Lock to support the drum at maximum torque of the hoist
326	Gearbox	Oil level check, oil drain and oil filling plug
327	Support bearing	Lubrication through grease nipple
328	Dama	
329	Rope Make	Bridon or equivalent
331	туре Туре	Lang-lay
332	Grade [N/mm2]	1960
333	Rope safety factor	Acc certifying authority
334	Preservation	All ropes galvanized and greased
335	Dead end termination	Open spelter socket
336	Dodd ond termination	open aponer cooner
337	Sheaves	
338	Groove diameter	Groove diameter : rope diameter ratio = ≥ 18:1
339	Bearing type	Sealed anti-friction with greasing through shaft
0.40		yg

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		Comment
1	Power unit Diesel engine	
3	Engine	Four Stroke Watercooled Diesel Engine
4	Make	Mitsubishi
,	Туре	S6B3-T2MPTAW
	Intermittent Power	Approx. 350 kW @ 1800 rpm
	Engine speeds	From Idle (no load) to 1800 rpm operating speed
	Intake Discription	Protected with Rig saver, butterfly valve type
	Air filter	Dry element type
	Exhaust	ST) station (1)00
	Engine connection	Flanged stainless steel flexible piece
	Exhaust lines	Stainless Steel 316L
	Insulation	Exhaust line inside machinery house including flexible piece
	Mufler	Stainless Steel 316L including spark arrester
,	Cooling Radiator	Engine skid mounted unit
	Means of cooling	Fan forced airstream
)	Fan drive	Diesel engine
1	Start system	
	Start system	Electric
3	Electrical	Facility delicase alternative
	Electrical charging Safety	Engine driven alternator
	Safe guarding	V-belts, pulleys and other rotating parts
	Splitterbox Type	Spur gear box
3	Mounting	Direct to E-motor
9	Input	Direct to splitterbox shaft
)	Output	Pumps directly mounted to gear box outputs
2	Main pumps Type	Variable displacement piston pumps of the swash plate type
3	Mounting	Pumps directly mounted to splitterbox
1	Control	Electric/hydraulic servo controlled and with built-in main press relief
5	Safety	Built-in main pressure relief valves and pressure cut-off
6		
7	Machinery compartment	
3	Execution	Self standing housing made of carbon steel
9	Preservation	According preservation specification At the back side of main frame
1	Location Mounting	At the back side of main frame Bolted
2	Sound level	≤115dB
3	Splilled fluids	Sump underneath a grated floor
4	Draining	Interconnected piping reachable from inside the pedestal
5	Drain valve	1" valve blanked off with blind plug
3	Access	Door accesible from main frame
7 3	Heating	See tab Electrics > heating See tab Electrics > lighting
)	Lights Grating	Galvanized, anti slip 30x30 maze dimension
)	Maintenace	Access to E-motor, pumpunit and E-cabinets
1	Lifting	Lifting facilities above E-motor and pump unit
2	Ventilation	Through mushroom type ventilator
3	Special notes	The Machinery compartment is to be defined as Restricted Area when E-motor running
		Warning signs on access doors to wear hearing protection
5	Hudraulia all tank	
3	Hydraulic oil tank Execution	Standing tank with slope bottom
3	Location	Inside machinery house
9	Inspection	Inspection hatch
)	Level indication	Level glass, operated by spring return push button
	Temperature gauge on tank	Required
2	Drain Wetertren	1"drain valve, blanked off by blind plug
3	Watertrap Breather	Included, integrated in drain connection Silica gel filed breather
5	Suction line	Butterfly type valves with safety switch
	Return line	Direct to tank top
,	Filling	Filling through filter into return line
	Material	Stainless Steel 316L, pickled and passivated
•	Heating	See tab Electrics > heating
•	Final all 4!-	
2	Fuel oil tank Execution	Standing tank with slope bottom
	Location	Inside machinery house
1	Inspection	Inspection hatch
5	Level indication	Level glass, operated by spring return push button
ô		
7	Drain	1"drain valve, blanked off by blind plug
3	Watertrap	Included, integrated in drain connection
9	Breather Filling	Included Fuel cap, screw on type, on top of tank
,	Hilling Material	Stainless Steel 316L

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423	Operator's cabin	
424	Туре	1300
425	Execution	Self standing housing made of carbon steel
426 427	Preservation Location	According preservation specification Cabin location on crane seen from the back of the crane looking towards boom direction
428		Right-Hand Side
429	Mounting	On anti vibration pads of the fail safe type
430 431	Sound Level Windows Front	≤ 65 dB(A) inside cabin with door and windows closed, Airconditioning noise excluded
432	Windows Front	10 mm Bright safety glass fitted in rubber and securred with SS 316 safety clips Horizontal protection bar in front of the window on inside cabin
433	Roof	8mm Bright safety glass fitted in rubber
434		Roof window protected by steel grillage on the outside
435 436	Side	6mm Bright safety glass fitted in rubber
437	Bottom Door	6mm Bright safety glass fitted in rubber 6mm Bright safety glass fitted in rubber
438	Wipers Front	Electric driven parallel arm type wiper inclusive spray nozzle
439	Roof	Electric driven parallel arm type wiper inclusive spray nozzle
440 441	Sun visor Coat hook	1 off, adjustable sun visor for front / roof window 2-off coat / hat hooks
442	Insulation	Acoustic and thermal insulation in walls and roof. Rubber mat on floor
443	Heating	See tab Electrics > heating
444	HVAC unit	Included
445 446	Defrosting & Demisting	N/A See tab Electrics > lighting
446	Lights Socket outlet	See tab Electrics > lighting See tab Electrics > Socket outlet
448	Door	Marine type door with lock and catch to hold door in the open position
449	Operator's chair	Upholstered chair with arm rests inclusive all direct controls
450 451	Ventilation	Natural ventilation trough closeable openings
451	Electrics	
453	Utilities Main	690 V / 50 Hz, 3-ph
454	Emergency	400 V / 50 Hz, 3-ph
455	UPS	230 V / 50 Hz, 1-ph
456 457	Power to crane	Power and signals via slip ring (see Slip Ring Unit)
458	Equipment	
459	Minimum degree of protection	≥ IP 65 for outside electrical equipment
460		≥ IP 42 for inside electrical equipment
461 462	Junction boxes	All Junction Boxes GRP
463	Glands Make	Hummel
464	Preservation	Supplier standard
465		
466 467	Lighting General lighting fixtures	All fluorescent lighting fixtures will be high power factor type
468	Make & Type	Chalmit Protecta or equivalent
469	Cabin	2-off 2x18W
470	Cabin entrance	1-off 2x18W
471 472	Machine house Roof of machine house	3-off 2x18W 1-off 2x18W
473	Inside mainframe	1-off 2x18W
474	Main access walkway RHS	1-off 2x18W
475	Main access walkway LHS	1-off 2x18W
476 477	A-frame walkway	1-off 2x18W
478	Floodlights Boomhead	2-off 400 W HP sodium floodlights, swivel mounted
479		
480	Aircraft Warning Lights	ANAL unit is according CAD 427 guidalines for ANALIS
481 482	Execution Boomtop	AWL unit is according CAP 437 guidelines for AWL's 1-off
483	A-Frame	1-off
484		
485	Heating Characters Cabin	Figured tube heater thermostatic controlled
486 487	Operators Cabin Machinery compartment	Finned tube heater, thermostatic controlled Finned tube heater, thermostatic controlled
488	Hydraulic oil heater	Immersed oil heater
489	Slip ring column	Anti-condensation heating
490 491	Contrat autilat	
491 492	Socket outlet Cabin	1-off socket
493	Cubin	
494	Slip ring unit	
495	Location	In Pedestal
496 497	Heating Number of rings	See tab Heating After detailed engineering

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99 Hydraulics		
00	Hydraulic lines	Z at 40mm Chainlean steel 2461. Chainlean Charl nining not anotad
02	Hard piping	< ø 42mm Stainless steel 316L. Stainless Steel piping not coated > ø 42mm Carbon steel including preservation
03	Couplings	Carbon steel, yellow passivated
04	. <u> </u>	WALFORM' tube fittings with captive seal
05		Carbon steel welding nipples with O-ring
06		Large size coupling with SAE flange
07 08	Hoses Certification	Aeroquip Standard manufacturare time test certification
09	Couplings	Standard manufacturers type test certification Carbon steel, yellow passivated
10	Pressure test	Test certificate for each fully identified hose, 2 times the rated design pressure
11		
12	Special notes	All exposed couplings wrapped with Denso tape
13		
14	Hydraulic oil	Manager
15 16	Type Viscosity	Mineral oil ISO VG 32 or 46
17	Cooling	Fan forced airstream through oil cooler
18	Fan drive	Hydraulic motor
19		.,,
20	Hydraulic oil filtering	
21	Туре	Single full-flow with contamination indicator
22	System filters	Main return
23		Booster pressure Auxiliaries
25	Meshing	10 micron
26	cog	. C. march
27 Controls a	and Indicators	
28	General Power	Electric/electronic, 24 Vdc internally derived from main power supply, incl. back-up
29		
30	Located in Divers Cabin	
31	Mains Crane control	Multi-functional levers built in arm rests
32	RHS Lever LHS Lever	Main and Aux. Hoist Slewing and Luffing
34	Switches	Crane on/off key switch
35	GWIGHGS	Luffing down cut-out override key switch
36		
37	Auxiliaries Location	In arm rest panel or wall mounted within reach of the operator
38		
39 40	Safe load Indicator Type	Kenz SLI system
41	Display	Allowable and actual load and load moment (percentage) and radius
42	Alarms	Visual and audible for 95% and 110% SWL incl. accept and reset
43	Controls	Hoist, falls and seastate selector
44	Load recorder	Electronic, integrated in the Safe Load Indicator
45		with min. 4000 cycles cap., PC compatible
46	Crane PLC	
47 48	Indicators	
49	Electrical system	Platform power available
50	·	•
51	Alarms	Visual on crane PLC screen & Audible
52	Crane operation	
53		Luffing upper and lower limt
54 55	Diesel engine	Overload / overmoment Overspeed and shut down
56	Diesei engine	Overspeed and still down
57	Communications	UHF / VHF radio
58		PA/GA speaker
59		Telephone set
60		
61	Located in Machinery House	
62	Indicators Hydraulic system	Hydraulic system pump pressure (Pressure gauge)
64	nyuraulic system	Hydraulic system pump pressure (Pressure gauge) Hydraulic control system pressure (Pressure gauge)
65		Hydraulic oil temperature (tank mounted gauge)
66		Hydraulic oil level glass (tank mounted)
67		
68	Diesel Engine	
69		Engine coolant temperature (local on engine)
70		Fuel level glass (tank mounted)
71 72	Located in Boom	
73	Radius Indicator	Mechanical Radius Indicator

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				Comment	Rev
575	Preservation				
576	Coating type / system	To be discussed			
577	Pedestal adapte	r Painted			
578	Main frame	Painted			
579	A-frame	Painted			
580	Boon				
581	Cabii				
582	Ladders	Galvanized			
583	Railing				
584	Hooks & blocks	Painted			
585	Colour				
586	Pedestal adapter outside		RAL 1023		
587	Pedestal adapter inside		RAL 1023		
588	Main frame		RAL 1023		
589	A-frame		RAL 1023		
590	Boon		RAL 3020		
591	Cabii		RAL 1023		
592	Hooks & blocks	Day-glow Orange	RAL 2005		
593					
594	Testing				
595	Crane test				
596	FA				
597	Installation, Commisioning and SA	 Function, Load, Per 	formance and Overload		
598	Endurance test [hours		ring SAT	<u> </u>	
599	Noise	Noise level test duri	ing SAT including noise level rapport		
600		·		<u> </u>	

Customer	POSH Semco
Crane type	DHC 100/4000 O.S.
Our Project	P324N001
locuo	0020/001 Pay 1



Issue	0020/001 Rev. 1				3.6
				Comment	
Loose deli					
	Documentation	Acc. Agreed dates			
	Documents on MDR	0010_001	General arrangement		
		0020_000	Crane Specification		
		0040	Project planning		
		0050_001	Load curves MH		
		0050_002	Load curves AH		
		0070	Master Document Register		
		0110	Quality plan		
		0120	QC Inspection schedule		
		0130	Manufacturing record book		
		0131	Manufacturing record book Index		
		0140	Operation & maintenance manual		
		0141	Operation & maintenance manual Index		
		0220	Spare parts list		
		0310_001	Weight & C.O.G.		
		0310_002	Pedestal Loads		
		0310_003	Boomrest loads		
		0320_001	Utility requirements		
		0330_001	Mech / Struc / Elec Interfaces		
		0340_001	Structural material specification		
		0350_001	Preservation specification		
		0350_002	Preservation details		
		5520_501 Serie	Connection Diagram Slipring unit		
		9003_002	Crane test program		
		9003_003	Installation procedure		
		9004_010	Hoisting plan complete crane		
Adittional I	Requirements				
	Tag plates components		multi-layer plastic (Resopal)		
			ulti-layer plastic (Resopal)		
	E-cable tags	Printed sleeves at I	ooth ends of wires/cables		
Maintenan	ce				
	Regular maintenance	All gearboxes have	splash-gear oil lubrication incl. level check,		
		drain and filling plug			
			greased manually through Stailess Steel grease nipple		
		Grease nipple cent	ralisation is limited to its location (e.g. boomhead, main	frame)	
	Lifting devices	Lifting beam in mad	thine house		
Special fea	ntures				
	Mechanical	Fail safe spring load	ded hydr. released brake on primary shafts		
-		Mechanical radius i			
			s of the boom rest (boom rest by others)		
-		Rig saver in diesel			
-		rug carer iii alcool	ongmo an anot		
	Hydraulic	Full size pressure r	elief valves in all systems		
-	r iy araano		ux and Boom Hoist system to avoid "load-drop"		
		Hydraulic lock valve			
		, aradiio look valve	so another to motors		
	Electric	Emergency stop pu	sh buttons		
	Electric		arting only with all functions in neutral		
			es on hoisting (high/low) , luffing		
	Overload out out	Only on luffing dow			
	Overload cut-out		n when reaching 110% SWL		
	Overload cut-out Safe Load Indicator		n when reaching 110% SWL		