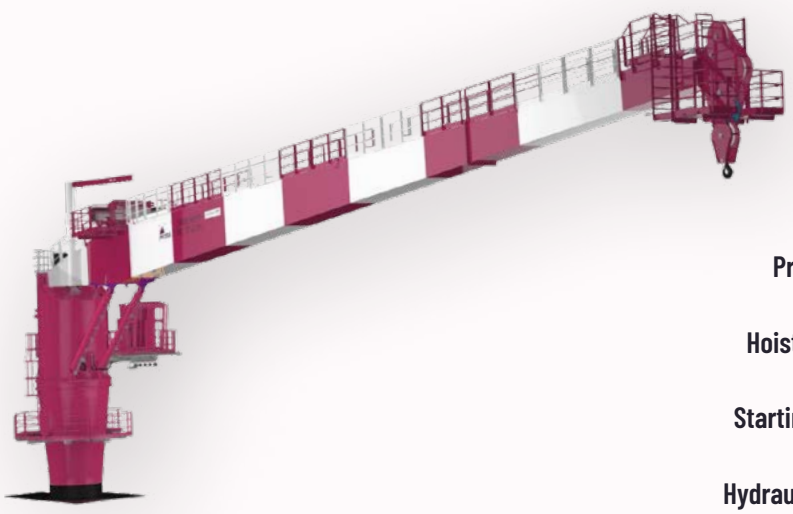
OSS Platform Crane 3.4

Product specification



Type	Proteus 3400 RAM Luffing – 2 hydraulic cylinders
Control	Cabin to comply with EN13852-1, optional radio
HPU	Modularized, rated to EN13852-1, inside slewing column
Prime Mover	Electric motor
Hoisting Winch	Compact design, on boom rear part
Starting method	Soft start
Hydraulic system	Closed loop
EOS	To comply with EN13852-1

Standards & certifications

Standards

EN13852-1	General Purpose Offshore Cranes
DNVGL-ST-0378	Offshore & Platform Lifting Appliances
DGUV-52	Krane
DGUV-54	Winden, Hub-und Zuggeraete
BetrSichV	Betriebssicherkeitsverordnung
2006/42/EC	European Machinery Directive
2006/95/EC	Low Voltage Directive
2014/30/EU	Electromagnetic Compability Directive

3rd party certification (on request)

Design Approval	During crane design, prior to fabrication start
Fabrication Follow-up	During manufacturing and testing phase
HAT	After crane installation onboard sub-station

PROTEA®

Environment

Environmental data

Ambient temperature	-20/+45 ^{0} C
Relative humidity	96%
Operational wind speed	25m/s
Significant wave height	Up to 3m

Corrosion protection

Corrosivity category	CX-H EN12944-2
Paint system	3-layer system
TDFT	415 microns
Standard	EN12944, NORSOK M-501
Hot dip galvanisation	Handrails, ladders acc. to EN1461
Paint supplier	Jotun
RAL colour code	See separate sheet
Aircraft obstructions	SOLF Teil 5 Kennzeichnung von Luftfahrthindernissen

Safety, service & maintenance

Safety systems

Anti collision	Slewing and luffing
AOPS	Automatic Overload Protection System
MOPS	Manual Overload Protection System
CT	Constant Tension
Slack rope detection	On hoisting winch
Hook block parking	PLC monitored

Service & maintenance

12 months service intervals	
Remote access	PLC monitored crane status
Remote control	Mechanisms movements from onshore base

Scope of supply

Pedestal adapter	Height depends on project
Circular Service Platform	Size depends on project
Pedestal crane	Design, procurement, fabrication, testing
Boom rest fork support	Design review
Electrical interface	Slip ring inside pedestal adapter
Spare parts	Commissioning & operational
Training	Crane operators & service
User manual	English, German, others (on customer request)
Quality documentation	English
After sales service	Service agreement

Technical data

Main data

Lifting Load	35T
Outreach min-max	5,0 - 52,0m
HPO	260kW
Hoisting Speed	28m/min
Luffing Time	160s
Slewing Speed	0,6rpm
Slew Bearing	3400mm
Load Chart	35T@5m onboard lift; 10T@52m Hsig=3,0m offboard lift
Weight	116t crane (dry); 22t pedestal adapter

Control system

PLC	Siemens 1500F (safety)
Touchpanel	In operator cabin

Remote access & control

Communication with OSS platform	Profinet by Siemens protocol

PROTEA®

Outfitting

CCTV	2-off, on boom tip and hoisting winch
Tagging & labelling	To comply with project requirements / RDSS-PP
Walking area lighting	Outside and inside
Telecommunication	Telephone, VHF, UHF
Aircraft warning lighting	4-off, along boom
Fire fighting	DNVGL-0145/NPEA Regulations
Slew bearing central greasing	Yes
Service davit for hoisting winch	SWL 1,5t
Slew bearing jacking points	Yes
Manriding	DGUV-52
Shock absorber	Yes
Lightning protection	Yes

Hydraulic system

E-motor	210kW-S1; 260kW-S6(40%)
Main pump	3-off Axial piston type
Aux pump	4-off Axial piston & gear type
Max system pressure	330bar
Max flow	400l/min
Hydraulic oil	Biodegradable type
Tank	Integrated in slewing column
Oil cooling/heating	Temperature monitoring system

Protea S.A.
Galaktyczna 30A
80-299 Gdansk,
Poland

+48 58 348 00 04
protea@protea.pl
www.protea.pl