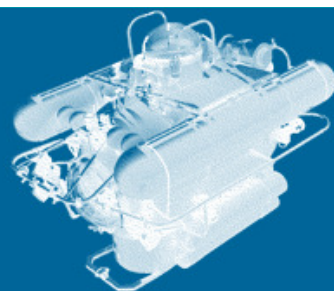


EurOcean_LEXI



EUROPEAN LARGE EXCHANGEABLE EQUIPMENTS

Infrastructure name	ROV PHOCA
Code	Comanche Build 21, Sub-Atlantic, 3000m
Owner/Institution	Helmholtz Centre for Ocean Research Kiel GEOMAR
Manager	Dr. F. Abegg (fabegg@geomar.de)
Equipment type	Class III Work Class ROV
System description	electrically driven ROV, 3000 m rated, electric winch, A-frame mounted LARS, no TMS
WEB LINK	www.geomar.de/go/rovphoca
WEB LINK TECH SPECS	
LEXI Data Base link	http://www.lexiinfobase.eurocean.org/sub.jsp?load=560&a=1336466572160
Vessels normally used	Global, Oceanic and Regional Vessels
Ship requirements	
Technical requirements	A-Frame with min. 3.5t SWL, 400VAC with 65A
Power	
Frequency	50Hz
Voltage	400 VAC
KVA	ROV 65A, config. 1: capstan 380V 32A, config. 2: winch small 380-400V, 32A, config. 3 winch large 380-400V, 350A
Max Amps	
Other power requirements	
Hydraulic	own electrically driven deck unit, 380V 32A
Pressure	
Flow rate	
Compressed air requirements	yes, as dry as possible
Cooling water	yes, preferentially fresh water for winch
Subsea positioning requirements	
Compatible USBL systems	ORE BATS, Sonardyne Homer, IXSEA Posidonia
Vessel GPS Feed or other requirement	DGPS/GPS feed
Networking requirements	tbd
No. of System configurations possible	
Configuration 1	shallow water configuration, 400 m umbilical with capstan, 1 x 20' container on deck, 1 container stored elsewhere on deck or shore
Configuration 2	deep water down to 2500m, winch of approx. 10.5 t, 1 x 20' container + winch on deck, 2 empty containers stored on deck or shore
Configuration 3	deep water 3000 m, winch 30 t, 2 x 20' container on deck, 1 empty container stored on deck or shore
Configuration 4	
Deck Layout Drawing	
Configuration 1	tbd., depending on platform
Configuration 2	tbd., depending on platform
Configuration 3	tbd., depending on platform

Configuration 4	
System weight/COG in each configuration	vehicle 1.5 t, LARS tbd, config. 1: umbilical sheave 400 kg, config. 2: sheave 200kg, config. 3: sheave 800 kg
Configuration 1	weight in operation 20 t
Configuration 2	weight in operation 30 t
Configuration 3	weight in operation 50 t
Configuration 4	
Number of containers/Items, Footprint Area required	
Configuration 1	1 x 20' container, vehicle with working space 4.5 m length and 3 m width, height 2.4 m, approx. 2,5 x 2,5 for capstan, approx. 2.5 x 4 auxiliary space on deck, space in cargo hold (spares)
Configuration 2	1 x 20' container, vehicle with working space 4.5 m length and 3 m width, height 2.4 m, approx. 3 x 3,5 for winch, approx. 2.5 x 4 auxiliary space on deck, space in cargo hold (spares)
Configuration 3	2 x 20' containers, vehicle with working space 4.5 m length and 3 m width, height 2.4 m, approx. 2.5 x 5 m auxiliary space on deck, space in cargo hold for spares
Configuration 4	
Deck securing arrangements	
Configuration 1	
Configuration 2	
Configuration 3	
Configuration 4	
Deck strength/Deck loading	
Configuration 1	14 t control container
Configuration 2	14 t control container, approx. 10.5 t winch
Configuration 3	14 t control container, 30 t winch container 20' HC
Configuration 4	
Transportation requirements (total weight and number of loads)	
Configuration 1	
Configuration 2	
Configuration 3	
Configuration 4	
V.A.T. + Customs clearance practice	
Mobilisation Details	
Typical Mobilisation duration	2 days
Typical Mobilisation cost	tbd
Typical Demobilisation duration	1 day
Typical Demobilisation cost	tbd
Insurance arrangements	
Own use	Own Use: Full commercial insurance policy. Covered for total loss only.
Barter	Barter: Full commercial insurance policy. Covered for total loss only. Assumption proper operation on all RVs.
Charter	Charter: Full commercial insurance policy. Covered for total loss only. Assumption proper operation on all RVs.
Co-operation	Cooperation: Full commercial insurance policy. Covered for total loss only. Assumption proper operation on all RVs.
Transportation insurance	Transportation Insurance: Yes, % rate based on value of vehicle
Technicians	

Number and type of technicians required to operate system in various scenarios	4-5 techs
System payloads	
Total maximum payload	100 kg
Existing specific payloads	CTD, HD camera, tool skid