



Infrastructure name	Victor 6000
Code	
Owner/Institution	Ifremer (Genavir) France
Manager	Jean Xavier Castrec (Jean.Xavier.Castrec@ifremer.fr)
Equipment type	ROV
System description	6000m Electric Work Class ROV
WEB LINK	http://flotte.ifremer.fr/fleet/Presentation-of-the-fleet/Underwater-systems/VICTOR-6000
WEB LINK TECH SPECS	http://www.ifremer.fr/fleet/systemes_sm/engins/victor.htm
Vessels normally used	Atalante, Thalassa, Polarstern, Sarmiento Gemboa, Castor II (Foselev Marine-Offshore Supply Ship)
Ship requirements	Dynamic Positioning (DP1) - Handling systems :A- frame or Oceanographic Crane CMU 10 T - Main umbilical pulley support pad on A-Frame CMU 15 T
Technical requirements	Guide d'exploitation du Victor", référence : GENAVIR - DSM/STE/10.145
Power	
Frequency	50Hz
Voltage	400Vac-3phases and 240Vac-2phases/ no neutral distributed.
KVA	400Vac supply: Vehicle 50KVA - Main umbilical winch 2*160KVA - Others (trolley, containers..) 5*15KVA 240Vac supply: 5*20KVA
Max Amps	
Other power requirements	
Hydraulic	
Pressure	
Flow rate	
Compressed air requirements	8 bars
Cooling water	2m3/heure sea or fresh water/ 3 bars
Subsea positioning requirements	
Compatible USBL systems	USBL Ixsea system POSIDONIA
Vessel GPS Feed or other requirements	DGPS
Networking requirements	http://www.ifremer.fr/fleet/systemes_sm/images/victor6000/vem_o.jpg
No. of System configurations possible	
Configuration 1	Normal configuration: complete scientific mission in total autonomy (far from home harbour)
Configuration 2	Low configuration only for small ship (Castor) and coastal short missions
Configuration 3	
Configuration 4	

Deck Layout Drawing	
Configuration 1	VICTOR S.22.00 (Atalante)-S.23.00(Thalassa)-S.25.00 (Polarstern)-S.27.00(Sarmiento)
Configuration 2	VICTOR S.26.00(Castor)
Configuration 3	
Configuration 4	
System weight/COG in each configuration	
Configuration 1	Vehicle+skid (4,2 T)-20' Control Container (6,5 T) - 20' Power/electric workshop container (6,8 T) - 20' mechanical work shop container (9 T) - 20' Spare parts container (8,7 T) - 20' Hydraulic winch container (12,5 T) - repository support and other (2,35T) - Depressor weight and support (1,7 T) - Umbilical winch (30,5 T) - Handling parts for A-Frame(2,2 T) - Tethers (1,2 T) - Modules and scientific equipments (1,5 T) - TOTAL: 88 Tons
Configuration 2	Vehicle+skid (4,2 T)-20' Control Container (6,5 T) - 20' Power/electric workshop container (6,8 T) - 20' mechanical work shop container (9 T) -Umbilical winch (30,5 T) -20' Hydraulic winch power container (12,5 T) - - Handling parts (2,2 T) - 1 Tether (0,5 T) - TOTAL: 72 Tons
Configuration 3	
Configuration 4	
Number of containers/Items, Footprint Area required	
Configuration 1	07 standard 20' containers + other items listed before - according configuration drawing mentionned above
Configuration 2	4 standard 20' containers + other items listed before - according configuration drawing mentionned above
Configuration 3	
Configuration 4	
Deck securing arrangements	
Configuration 1	Containers twist locked into standard iso 20' + chain ratcheted down, rails for repository support bolted on deck or on welded pads - ROV and support strapped to deck - Main umbilical pulley support bolted or welded on A-Frame for 15 T traction - Umbilical winch bolted on deck pads (welded on deck) - other ROV cargo strapped to deck
Configuration 2	Idem
Configuration 3	
Configuration 4	
Deck strength/Deck loading	
Configuration 1	According configuration drawing mentionned above
Configuration 2	According configuration drawing mentionned above
Configuration 3	
Configuration 4	
Transportation requirements (total weight and number of loads)	
Configuration 1	110t in 11 containers (6x20' standard - 2x20' Open top - 3x20' Flat collapsible/Repliable)
Configuration 2	72 T: 4x20' standard containers + 4 separated loads (winch, vehicle,tether,handling parts..)
Configuration 3	
Configuration 4	

V.A.T. + Customs clearance practice	To be confirmed (TBC)
Mobilisation Details	
Typical Mobilisation duration	3 to 5 days for configuration 1 -2 to 3 days for configuration 2 (and usual ship)
Typical Mobilisation cost	Crane hire (4 to 6000 €) - Truck hire (10 to 12000 € for config.1 and far from home port - 2000 € for config.2 home port)
Typical Demobilisation duration	2 days for configuration 1, 1 day for configuration 2
Typical Demobilisation cost	Crane hire (4 to 6000 €) - Truck hire (10 to 12000 € for config.1 and far from home port - 2000 € for config.2 home port)
Insurance arrangements	
Own use	Ifremer is its own insurer
Barter	
Charter	To be discussed with the charterer
Co-operation	Ifremer is its own insurer
Transportation insurance	Covered for all risks
Technicians	
Number and type of technicians required to operate system in various scenarios	24 hours operations: 10 technicians comprising 1 WC ROV supervisor, 9 pilot/co-pilot technicians with experience of large ROV hydraulic , mechanic, electric and electronic systems, positioning and data processing
System payloads	
Total maximum payload	in air = 330kg / in water = 190 daN
Existing specific payloads	MMR = toolsled for visual and acoustical survey: multi beam sounder, long range still camera, CTD, sediment sounder, water sampling unit. MdB = standard toolsled for collecting samples: basket, Temperature probes, water sampling unit, chemical analyser, other scientific equipments in the frame of the payload.