











## **ROV for Deep Marine Research**

- Funding 46 mNOK (5.6 m€).
- Operational by fall 2015.
- Operated from several IMR vessels:
  - -G.O.Sars
  - Håkon Mosby
  - Kronprins Haakon
- International access through OFEG



- Rated to 6000 m
- Payload 150 kg
- 7-function arm
- Grabber
- Hydrolics
- Camera and lights
- Auto-line tracking
- Auto-hold

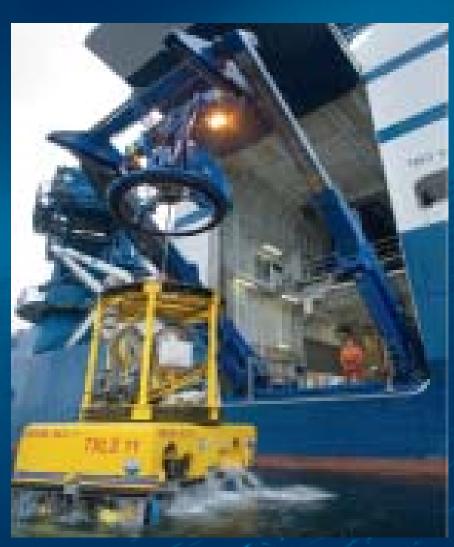


Work-class ROV from Kystdesign A/S



- TMS with 400 m Kevlar-reinforced cable
- LARS for TMS mode

- 20-foot control container
- Free-swimming mode for smaller vessels





Ship size	Large Vessel	Large Vessel	Small vessel
Examples	Kronprins Haakon	R/V G.O. Sars	R/V Håkon Mosby
Operation mode	TMS-mode	Free-swimming	Free-swimming
Depth range			
Ultra-deep water (6000 m)		x	
Deep water (3000 m)	x	x	
Shallow water (1500 m)	x	x	х
ROV-modules used			
ROV	X	X	Χ
TMS	X		
Mobile crane		Where needed	Where needed
Large Winch (6000 m)	x		
Small Winch (1500 m)			X
Workshop container (10")	x	x	X
Transformer container (8")	x	x	X
Large control container (20")	X	x	
Small control container (10")			X

Table 1. Overview of ROV-modules showing how the components of the system are combined to nfi different sized ships and different modes of operation.

