EVA - SURVEY VESSEL

One of the most difficult tasks faced by marine contractors can be relating the subsurface terrain to their clients. While live video documentation from our commercial dive teams can provide an excellent window to the marine environment, this option may not always be the most feasible or economical option. To solve this dilemma, we offer several high-tech tools in our Hydrographic Survey package for accurately mapping, measuring, and locating targets within a marine environment to a high level of precision

Commissioned by us in October 2001, 'Eva' is a purpose-built vessel ideal for near-shore and inshore survey work of canals, lakes, reservoirs, rivers and estuaries offering the following advantages;

- Transportable by car on a road trailer to any destination
- A max speed of 24knots reduces the passage times required
- Large wheel house provides ideal environment for Survey equipment
- Vessel is capable of operating in water depths as little as 0.9metres
- Vessel and survey can be operated by one man

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Surveys are primarily undertaken with an array of echo-sounders and survey-grade GPS position fixing equipment. In addition to this Sub-Bottom Profiling, Sector Scanning and SideScan sonar techniques can be employed to provide a fuller picture of the bed surface and sub-surface. Continuously logging tide gauges provide tidal corrections and current meters record direction and strength of flow.

Our hydrographic survey staff are all fully trained in boat handling and safety techniques and our boats are all trailer-launch able. Using the latest processing and communication equipment the data gathered on site is processed by on-board computer and a real-time display of the survey data obtained. The processed data can then be transmitted back to the office for checking and plot production. Final results can be presented as colored contour plots, sections, or full three-dimensional models for manipulation. Volumes can be calculated against previous surveys, design surfaces or dredging profiles.

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Organisationsnr
556228-2441

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www.marcon.se

Technical Specifications

Vessel name		Eva
Type		Inshore Survey
Operator		MarCon Teknik AB
Call sign		Eva
Built/rebuilt		1982/1989/1993
Length overall		6,9m
Breadth moulded		2,4m
Draught loaded		0,5m
Weight		1200kgs
Speed		24 knots
Aft Deck		2m x 2m
Engine		50hp 4 stroke outboard
Fuel capacity		$0,9m^3$
Fuel consumption		
Electrical power		1 generator.
Navigation aids:	Satellite	Furuno NX500
	Radar	Decca Bridge master; Decca RM 916C; Decca TM 1226
	Gyro	Sperry Mk23
Communications:	VHF	2x Sailor RT 143; Motorola MX1000 handheld
Accommodation:		1 large wheel house
Survey systems:	Positioning	Starfix MN8 DGPS VRU: Seatex MRU-5, Datawell HIPPY 120C; Acoustic: Simrad HPR 309T; Streamer, source & tailbuoy by HPR (optional DGPS for tailbuoy)
	Sensors	Singlebeam echo sounder: Simrad EM1000; Sidescan: EG&G 272-TD with 260 TH recorder; Deeptow boomer: Huntec. Max output 540 joule; Subtow boomer: EG&G 230 Uniboom; Echo sounder: Simrad EA 501P, 38 & 200kHz; Mini sleeve gun: 10cu.in. with waveshape kit; Mini water gun: Sodera 15cu.in.;Hydrophone streamers: Benthos, 10 h/phones, 3m; Fjord Instruments, 24 h/phones, 15m; Graphic recorders: 3 x Dowty; TVG: 2 x TSS; TVF: 2 x Chi; swell filter: 2 x TSS; Digital recording: G-LOG for simultaneous digital processing of sidescan, boomer/sparker, mini-sleeve gun; UMEL 2m; Grab: Shipek; SVP: AML SVP-16, 1000m depth

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