

Home

Welcome to

BOS maritime consultants bv

BOS maritime consultants provide expert advice to the maritime and the offshore industry. Technical and organisational services are prepared for clients operating in successful niche markets.

The company was established by Robert Bos in 1999 and is based in Haarlem, The Netherlands.



DCV Aegir – see ref list pg 4

Philosophy

Organisation - Expert advice is given by Robert Bos in a personal assignment.

For larger projects multidisciplinary teams can be established by involving fellow specialists and independent consultancy firms.

The industry - The maritime and offshore industry relies on technical expertise and large capital investments. Projects are based on one-off vessel and installation designs. Realisation requires a high level of technical skills. When completed, vessel operations must be carried out in a safe and reliable manner.

Objectives - BOS maritime consultants has the required skills and experience to support these projects. We provide high level consultancy in both technical and organisational areas. Technical knowledge is an essential element in management along with financial control and planning.

Scope of services: Technical and operational review

Major technical and operational issues will be reviewed, including budget, scope of work and planning, along with main specifications and procedures.

Project reviews are usually performed for financiers to certify milestone achievements for loan submissions.

Reviews are also carried out as part of due diligence analyses in connection with change of company ownership.

Initiating a project – Starting from scratch we assist in initiating a new projects.

This concerns:

- preparation of design requirements
- selection of flag state
- regulatory requirements
- classification requirements
- preparation of an outline design
- specifications
- preliminary risk analysis
- shipyard selection.

Expert advice – Technical advice can be provided in the following areas:

- Design and engineering.
- Naval architecture.
- Model test preparations
- Design studies
- Safety studies, failure mode, effect and (criticality) analyses FME(C)A and Safety Case development.

Ship and equipment selection – Evaluation of ship type and equipment to meet project requirements.

Vessel types:

- FSO and FPSO (FSU and FPU)
- Offshore construction vessels
- Pipe laying vessels
- Offshore service vessels
- Drill ships
- Shuttle tankers




Hull shapes:

- Semi-submersibles
- Multi-hull vessels

- Mono-hulls or ship shaped hulls



Equipment:




- Offshore cranes
- Pipe-laying installations, S-lay, J-lay and Reel Lay mode
- Offshore transfer and access systems
- DP systems and power generation systems
- Thrusters and propeller systems.

PROJECT REFERENCE LIST		BOS maritime consultants bv	
Established in May 1999 ; contact data are shown on last page Detailed information per project and CV Robert Bos are available on request. (Rev Oct 2014)			
Client year	Function	Scope	Highlights or features
Paswerk 2013/14	Advisory Board	Advice on newbuild projects	Training vessel UNION
Heerema Offshore Services 2013	Technical advisor	Concept review	New semisubmersible crane vessel
Heerema Offshore Services 2010/12	Project manager	Design requirements, Concept and Basic design, FMEA's and special studies incl. model tests. Contract specifications.	Special purpose ship, Reel and J-lay, Deepwater lowering, Mastcrane 4000 t , Anti-heeling ballast system  DCV AEGIR
Heerema Offshore Services 2007/8/9	Project manager	Design requirements Basic Design Safety studies Model tests Technical specifications.	Semi-submersible offshore construction vessel – NBV design Optimum hull shape - stability, motions, survivability, speed - braceless hull construction - ultimate strength and fatigue J-Lay and deepwater lowering system 2 x 5500 t lifting capacity
ING Bank NV Atradius DSB SHL Shipping Ltd 2007/11	Principal consultant	Technical review and progress monitoring of monohull crane vessel OLEG STRASHNOV	Launch from IHC Merwede Krimpen slipway 22 Aug 09 
Client 2006/7	Principal consultant	Market search	Identification of offshore equipment
Wagenborg Kazakhstan 2006/7	Engineering manager	Modification of LQB Shapagat Integration of LQB Karlygash with ice breaking escape vessels.	Living Quarter Barge SHAPAGAT 
Amerada Hess 2006	Expert naval architect	Independent FPSO review.	Review of on site Repair Program of FPSO Sendje Ceiba
Cuulong Joint Operating Company, Vietnam 2005	Principal consultant	Life time extension program tanker conversion, Turret mooring system, Tandem mooring system,	Preparation Bid Specification Tanker based FSO

Genius Vos 2005	Expert naval architect	Motion analysis of offshore transshipment between a supply vessel and a jack-up	Mono pile and tower installation	
Wagenborg Kazakhstan 2005	Principal consultant	Tender assistance	Marine services in the Caspian	
ING Bank SBM Offshore 2005	Principal consultant	Technical review	Sanha LPG FPSO	
Heerema Marine Contractors 2005	Study contract	Failure mode effect and criticality analysis FMECA	Pipe Elevator and J-Lay Tower DCV Balder	
RABO Participaties 2004	Principal consultant	Operational due diligence management buy-out		
Fabricom Oil & Gas 2004/5	Study contract	Offshore Access System OAS Motions and Load analysis Finite element strength analysis Vessel selection	OAS Prototype on Smit Kamara	
ING Bank Modec 2004	Principal consultant	Technical review of MODEC FPSO Baobab for deepwater operations offshore Cote d'Ivoire.	Turret inspection by me	
ING Bank IHC Caland 2004	Principal consultant	Technical review of SBM's FPSO Serpentina for deepwater operations in West Africa		

<p>IHC Holland Dredgers</p> <p>2004</p>	<p>Principal consultant</p>	<p>Technical and budgetary review of Self Propelled Cutter Dredger d'Artagnan for DEME</p>	
<p>Repsoll Exploration SA</p> <p>2003/4</p>	<p>Principal Consultant</p>	<p>Prestige cargo neutralisation project Expert advice to project director Company representative on board Odin and Enterprise</p>	
<p>ING Bank NV IHC Caland</p> <p>2003</p>	<p>Principal consultant</p>	<p>Technical review of SBM's FPSO Marlim Sul for deepwater operations in Brazil</p>	
<p>ING Bank NV IHC Caland</p> <p>2003</p>	<p>Principal Consultant</p>	<p>Technical review of SBM's floating production storage and offloading unit, FPSO Xikomba for deepwater operations in West Africa</p>	
<p>Fortis Bank IHC Caland</p> <p>2003</p>	<p>Principal Consultant</p>	<p>Technical review of SBM-Imodco's floating production, storage and offloading unit, FPSO Kuito, phase 2A</p>	<p>Installation of extra modules on site.</p>
<p>De Voogt Naval Architect</p> <p>2002/3</p>	<p>Project Engineering Manager</p>	<p>Preparation of Design and Engineering guidelines for a quality system: "MANUAL DE VOOGT".</p>	<p>CAD and Drawing standards. Review of the design and engineering process of large luxury yachts Interface with client, class, vendors and construction yards. Preparation of typical drawings per discipline; Project quality control procedures.</p>
<p>NIBC Bank Vanguard SPC</p> <p>2002</p>	<p>Principal Consultant</p>	<p>Technical review disconnectable turret system FPSO Four Vanguard.</p>	<p>Identification of project risks. In depth review of technical reports and drawings of the turret structure with ship interface.</p>
<p>ING Bank IHC Caland</p> <p>2001</p>	<p>Principal Consultant</p>	<p>Technical review of SBM's floating production, storage and offloading unit, FPSO Falcon.</p>	

De Voogt Naval Architects 2001	Principal Consultant	Wave bending moment evaluation of a high speed motor yacht .	Effects of slamming and whipping on hull girder loads. Outline description of an overload prediction system.
Fortis Bank IHC Caland 2001	Principal Consultant	Technical review of SBM's floating production, storage and offloading unit, FPSO Brasil .	Comprehensive review of technical project, comprising design and construction of hull, topside, offloading, turret and anchoring systems Vessel inspection at the construction site.
Heerema Marine Contractors 2001	Project manager, Design and Interface	DCV Balder: Hull reinforcement and life time extension Tower support structure Equipment foundations Fly-jib Interface control Weight and stability control Class and statutory approvals Design safety case Editing operations manual	
ING Bank IHC Caland 2000	Principal Consultant	Technical review of SBM's FPSO Espadarte for deepwater operations	Comprehensive review of technical project, comprising design and construction of hull, topside, offloading, turret and anchoring systems
Feadship 2000	Principal Consultant	Quality assessment of Feadship yachts	Interviews with captains and chief engineers to assess client satisfaction on yacht and sub-systems design. Inquiry via internet. Presented at annual Feadship captains symposium.
De Voogt Naval Architects 2000	Principal Consultant	Development of a new generation luxury mega yachts .	Concept development of diesel electric power generation, with pod propulsion and DP tracking system.
Guangzhou Shipyard International 2000	Co-ordinator	Failure mode and effect analysis FMEA on the DP Heavy lifting vessels for CosCo	
Allseas 2000	Sub-contracted to Lagomar Okeanos	Marketing study Pipelaying vessels	Deepwater prospects of DP pipelaying vessels with S-lay systems.

<p>Huisman-Itrec 2000</p>	<p>Principal consultant</p>	<p>Failure mode and effect analysis FMEA on the pipe laying equipment of DP vessel Deep Blue</p>	<p>Pipe laying tower</p>	
<p>Vroon Meijssen Telco, Joint venture 2000</p>	<p>Chief naval architect</p>	<p>Development of cable laying beach craft</p>	<p>Special craft applicable in tidal estuaries.</p>	
<p>Noordhoek 2000</p>	<p>Sub-contr. to GHC</p>	<p>Preparation installation manual</p>	<p>Communication buoy.</p>	
<p>Workships 2000</p>	<p>Project manager Design and Interface</p>	<p>Design of mobile catamaran dock for vessel repair and heavy transportation</p>	<p>New market potential as "early production" repair platform.</p>	
<p>De Voogt Naval Architects 1999</p>	<p>Principal Consultant</p>	<p>Editing of contract specification luxury motor yacht.</p>	<p>Barbara Jean</p>	
<p>Mansall Offshore QSC 1999</p>	<p>Principal Consultant</p>	<p>Review of environmental design criteria for self elevating maintenance platform Leen.</p>	<p>Guidelines for classification of revised operational conditions.</p>	
<p>De Vries Scheepsbouw 1999</p>	<p>Principal Consultant</p>	<p>Preparation of a standard contract specification for luxury motor yacht 50+ m Lady Marina.</p>		
<p>BOS maritime consultants bv Irisstraat 23, 2015 AS Haarlem The Netherlands</p>				

Short CV of Robert Bos

Robert Bos (Rob) started his career in *product development* (3 years) and has been working with *Gusto Engineering* (18 years), in a long succession of design and engineering projects. He developed expert knowledge and experience in the design of offshore service vessels, mobile units and floating production units and became member of the management team. In a special assignment, he joined SBM/Shell's Anasuria FPSO engineering team in Japan.

Rob joined *Bluewater Engineering* in 1995 as *Engineering Manager* (4 years) and supervised the engineering of 3 North Sea FPSO's, with technical responsibility for the safety cases. The work included the supervision of the required modification engineering of a purpose built tanker hull for FPSO service at Hitachi's.

Since 1999, Rob is director/owner of *BOS maritime consultants bv*, serving the international maritime and offshore industry. This concerns expert advice as well as project and engineering management. He is frequently involved in technical reviews of FPSO projects and other ship projects for Bank consortia. As a spin off he provided similar services to the Dutch super yachting industry.

On a number of occasions he served as Project Manager at *Heerema Marine Contractors*. This concerned the life time extension of the *Balder*, the design of the *NBV*, a motion optimised semisubmersible design without braces and the *DCV Aegir*, a newbuild deepwater construction vessel with advanced pipelay facilities.

Rob holds an Ir (MSc) degree in maritime technology from *Delft University of Technology* in The Netherlands. He is member of the *Royal Institution of Engineers in the Netherlands* (KIVI) and participated in *ISO and NEN Workgroups on Floating Production*. He is currently engaged in business development Europe for *Zee Engineering Pte* in Kuala Lumpur.



Company Structure and Connections:

Operating Company: BOS maritime consultants bv
Registered: Amsterdam no. 34123497

Holding Company: R.W.Bos Adviezen en Beheer BV
Registered: Amsterdam no. 28081841

Contact: BOS maritime consultants bv
Irisstraat 23
2015 AS, Haarlem
The Netherlands

T: +31 (0)23 5344050
M: +31 (0)6 22808858
E: rob@bos-maritime-consultants.com
W: www.bos-maritime-consultants.com

Agency agreement: BOS maritime consultants is engaged in a marketing agreement with:
ZEE Engineering Consultants Pte. Ltd. Jakarta, Kuala Lumpur.