

GVA

A KBR Company



Master of the Oceans





Master of the Oceans

GVA, with headquarters in Gothenburg, Sweden, is one of the world's leading designers of semi-submersibles, FPSOs and other large floating units. GVA has executed more than 100 projects in over 20 countries. The company's roots are in Götaverken Arendal Shipyard, where the GVA series of semi-submersibles was originally developed and fabricated. Today, the GVA series of semi-submersibles has been further developed and refined and includes a wide range of units with displacements from 13,000 to 145,000 tonnes. GVA are experts in conceptual design, naval architecture, structural design and marine and drilling systems. We bring high-value design solutions to each and every project. GVA's strong client base includes many of the world's largest oil and gas companies.

GVA products and services allow it to support its clients with a wide range of services, from conceptual design to detail design, execution, operation and, later, when upgrade or conversion work is required.



Anywhere, any depth, any weather

In the offshore marine sectors, GVA supports its clients with comprehensive design and engineering services, from the conceptual phase through to model tests, basic design / FEED designs, Class approval, development of specifications and enquiry packages, fabrication support, testing and commissioning procedures and vessel handover. We also undertake projects on a task-by-task basis, combining our services with those of the client or other parties involved. Our reputation is built upon the ability to provide clients with cost efficient and state-of-the-art design solutions.

Consistency is the key

Project execution within the offshore industry is often subject to extremely demanding timelines and workload situations, where every decision can drastically affect the project. GVA project expertise, support and resources, combined with our experienced engineering team, ensure that both small and large projects progress smoothly, every time. Our services include:

- Conceptual design
- Pre-FEED
- Basic design / FEED
- Extended basic design
- Detailed engineering support services
- Conversion design
- Project management
- Estimating
- Verification
- Risk and FMEA analysis
- Procurement support
- Cost and schedule control
- Engineering management
- Yard supervision and support services
- Support during testing and commissioning
- Integrity management

Engineering excellence

Our multi-disciplinary engineering and design teams use the latest computer-aided software, including AVEVA Marine, PDMS and AutoCAD systems. We can assemble at short notice a team to undertake even the largest marine design and engineering tasks. While our core activities focus on semi-submersibles, FPSOs, drill ships and other floating offshore installations, we have the skills, expertise and tools to undertake other complex structural, hydrodynamic, piping and mechanical and drilling engineering tasks. These are the key disciplines at GVA's core:

- Hydrodynamics
- Stability
- Weight control
- Arrangement
- Drilling and utility systems
- EIT and HVAC
- Structural engineering
- Structural design



Delivering success, time and again

GVA is a leading designer for the offshore marine industry. We share our expertise with our clients, providing strong and efficient structural design.



FPSO

The GVA FPSO series is based on proven design and in-house experience. The GVA FPSOs have several advantages incorporated into the design, such as fabrication-friendly features and low motion behaviour. GVA FPSOs can be tailored for all client needs and requirements.



DRILLSHIP

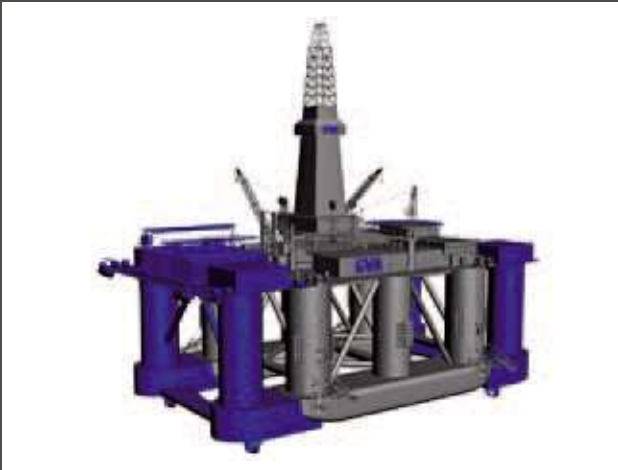
The GVA Drillship series is designed for demanding environmental conditions, including drilling in ultra deep water (drilling depth down to 12,000 meters). The GVA 15000 DS is primarily used for drilling production wells, together with exploration and appraisal drilling in combination with test production. GVA drillships offer maximised operability on a safe, manoeuvrable, stable vessel delivering excellent economy.



FLOATING DOCK

GVA provides basic design packages for floating docks. The drydocks are used for construction, maintenance and repair of ships and other craft. GVA has designed and built some of the largest floating docks in the world.

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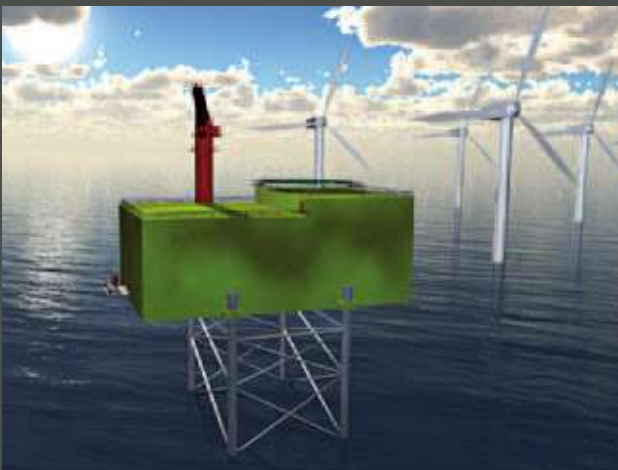
CONVERSION

GVA offers a complete range of services for conversion projects. We support our clients with key personnel during the most critical periods within the conversion project or, alternatively, take a leading role in the project. Conversion projects for a semi-submersible may involve DP Add-on.



SEMI-SUBMERSIBLE

GVA's semi-submersible series is based on proprietary technology. The GVA series of drilling, production and accommodation units can be tailored for client needs and requirements. Our standard designs are available in variants suitable for shallow and deep water operations, together with mild, moderate and harsh weather conditions.



OFFSHORE HVDC SUBSTATION

GVA offers development and design of HVDC transformer substation platforms, accommodating equipment for gathering, switching and transferring power produced by large offshore wind farms.



The GVA semi-submersible

The GVA series was originally developed as semi-submersibles and, as such, were revolutionary when first introduced in the 1970s. The simplicity of the hull achieved recognition among GVA's clients and set a new benchmark within the industry. GVA designs cover worldwide operations, for all depths and all operational conditions.

Engineering excellence

GVA designs are renowned for their extremely high utilisation rates. Here are some of the benefits from GVA technology:

- Robust and simple hull structural configuration
- Minimal fatigue-sensitive connections
- Deck box design offering a large open deck area
- Large air gap, for operation in harsh environmental conditions
- Excellent motion characteristics
- Favourable deck payload/steel weight ratio
- Wing pontoon, for improved motion and transit performance
- A rigid buoyant upper hull deck-box, which enhances safety in extreme weather conditions (extra strength and buoyancy)
- 100% access for inspection from within the hull (significantly reducing maintenance and downtime costs and increasing the operating life of the unit)
- High level of structural redundancy and design efficiency, by integrating upper and lower hulls
- Fully protected internal emergency evacuation routes



Environment, quality and safety

– meeting environmental requirements



Health

GVA is committed to a safe and healthy working environment for its employees, clients and other stakeholders. GVA works towards an incident/injury free work environment. GVA will continue to work with all employees to ensure we conduct our duties and responsibilities in compliance with applicable laws, industry standards and company policies and procedures relating to health and safety in the workplace.

Safety

Proven safety methods and techniques are applied to prevent, minimise and control hazards and risks through design collaboration between key engineering disciplines and product teams. There is total commitment to achieving an incident/injury free working environment. In addition, GVA incorporates a high level of safety in design of all semi-submersible and other hull designs.

Environment

We aim to deliver environmentally friendly design solutions to our clients and assist them in meeting environmental rules and regulations. We work closely with major suppliers and implement the latest most environmentally benign technology, creating the highest possible value for our clients.

Quality

Our engineering and construction methods ensure consistently high quality. Our well-developed and tested design processes reduce problems and time-consuming challenges. Our quest for optimal quality is relentless and ongoing.

Our objective is to deliver services of the highest quality to ensure compliance with requirements specified by clients, authorities and other parties. We apply our quality management systems to meet these objectives, irrespective of whether the service is provided by GVA or by our subcontractors. We emphasize the importance of positive cooperation with our clients and free exchange of views with respect to quality. We strive to document services in a satisfactory manner to all clients. Quality is built on performance excellence. It is about optimising client's satisfaction through continuous improvement.

Certification

We are certified by Lloyd's Register Quality Assurance to the Occupational Health & Safety Management Standard OHSAS 18001.

ISO 9001 / ISO 14001

We apply the international standards ISO 9001/ISO 14001 for managing the quality of our products and services.



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Leading the way: innovative, reliable
high performance floating offshore and marine solutions



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