

Special Economic Zone
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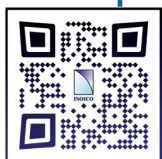


ISOICO



شرکت مجتمع کشتی سازی و صنایع فراساحل ایران (ایزوایکو)

منطقه ویژه اقتصادی کشتی سازی خلیج فارس



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Iran Shipbuilding and Offshore Industries Complex Company (ISOICO) is a special economic zone with an area of 1,100 hectares and the largest infrastructure of marine industries in the country. This complex was built in 1973 with the purpose of building and repairing various types of vessels near the coast of Persian Gulf and 37 kilometers west of Bandar Abbas. ISOICO complex has sheds and workshops equipped with complete facilities and tools, and a breakwater with an area of 381 hectares as well as various docking and undocking systems for vessels and all kinds of oil and gas facilities. During the last decade, ISOICO has proven its ability in this field by delivering 3 ocean-going container ships, building an oil tanker, designing and building a fishing support vessel, building various types of barges, landing crafts, oil pollution collection vessels, passenger and recreational vessels, as well as designing, building transporting, installing and commissioning oil and gas platforms, repairing drilling rigs and overhauling large-sized vessels and oil tankers. Repairing drilling rigs as effective and strategic structures in the development of oil and gas fields in the country requires Up-to-date knowledge and complex engineering. By entering this market, acquiring and localizing knowledge in this field, ISOICO has been considered as a drilling rig repair hub and has been influential in the market.

Iran Shipbuilding and Offshore Industries Complex Company (ISOICO) has divided and defined its activities in the field of construction and repair of vessels into three groups of design, construction and repair of small, medium and large vessels, as well as in the oil and gas in the form of marine structures group, and each group follows a defined mission.



ISOICO Groups:

Group of design, construction and repair of small vessels (Up to 3000 DWT)
Group of design, construction and repair of medium vessels (Up to 35000DWT)
Group of design, construction and repair of large vessels (Up to DWT 350000)
Group of medium vessels repair (Vessels up to 80000 DWT capacity)
Group of marine structures design and construction (Oil and gas platforms, all types of jackets and pressure boosting platforms)

Capacities of Iran Shipbuilding and Offshore Industries Complex Company (ISOICO)

1100 hectares of area benefiting from the advantages of the special zone and outside the customs territory and the mainland.
Specialized human manpower.
Specialized and unique equipment and workshops.
Special economic zone and taking advantage of the rules and facilities of special zones.
Access to international waters through the Persian Gulf.
Privileged geographical location and the possibility of using sea, air and land routes and the transit highway of the country to all parts of the country and Central Asia.
(Adjacency to Shahid Rajaei and Shahid Bahonar ports).
Industrial park of marine industries.
Salt water network(for firefighting system).
Open and roofed warehouses.
Having a statute for export, transit and marine industry services.
Stilling basin with an area of 380 hectares with two 4 km long breakwaters.
Vessel mooring jetties (27 mooring points).
Two 230 KW electrical substations.
The most modern vessel docking and undocking systems such as:
Slipway with a capacity of 800 tons.
Lifting system(SYNCROLIFT) with dimension of 172*32 meters and capability to lift vessels up to 11000 tons.
Two transfer systems to move vessels between parking lots
Floating dock system (FLOATIN DOCK) with dimension of 240*42 meters with capability to lift vessels up to 28000 tons and capacity of 80000 DWT.
• Two dry docks with a capacity of 350 thousand tons:
Karkheh dry dock: is 475 m length, 80 m width and 13.5 m depth.
Karun dry dock: is 375 m length, 80 m width and 14.5 m depth.
Dry dock hatches with the ability to float.
A powerful and modern house pump equipped with three main pumps with a capacity of 24,000 cubic meters per hour each and two auxiliary pumps with a capacity of 2,000 cubic meters per hour(for watering and dewatering the docks).
Three giraffe cranes (35 tons, 60 tons and 160 tons).



23 parking lines for construction and repair of vessels (8 lines equipped with 150 ton and 40 ton giraffe cranes).

4 parking lines, each line 200 meters long, for the construction of vessels equipped with 150 ton giraffe cranes, which, due to being installed on both sides of the parking lines, have the ability to cooperate and increase the power up to 300 tons.

15 parking lines to repair and construction of vessels in an area of 35,000 square meters.

4 parking lines with dimensions of 30 x 200 meters equipped with 40 ton giraffe cranes.

Vessel mooring jetties:

Quay wall with a length of ... and equipped with a 50 ton giraffe crane.

340-meter long vessel mooring jetty equipped with a 40 ton giraffe crane.

2 jetties on both sides of the synchro lift, each 172 meters long.

Mooring jetty with a length of 600 meters.

Jetty for unloading and loading and repair operations with a length of 180 m.

Loading jetty up to 8000 tons (loading marine structures).

Advanced bogie devices with the ability to move up to 528 tons.

Three air compressors with a capacity of 100 cubic meters per minute and a pressure of 10 to 11 bar.

Sewage treatment plant(centrifugal semi-submersible pump devices with a capacity of each pump of 30 cubic meters per hour).

Liquid oxygen tanks.

Fresh water reservoirs.

Fresh water pumps.

Salt water pumps.

Dedicated power station 20/63 with a power of 35 megawatts and three distribution stations of 4 megawatts and one distribution station of 8 megawatts.

Mobile machines.

Equipped and modern workshops include:

Mechanical, Electrical, Piping and sheet metal workshops.

- Fully automatic shot blasting workshop equipped with a shot blasting machine with an inlet opening width of 3000 mm with the ability to produce 1200 tons per month up to 3 meters wide, sheet straightening machine, painting machine, drying machine and 5 and 12 ton magnetic cranes.





- Cutting workshop equipped with unique C&C underwater cutting devices (air gas and plasma):
- Plasma cutting machine: maximum sheet length 13000 mm, maximum sheet width 3000 mm, thickness from 2 mm to 20 mm and average cutting speed 2500 mm per minute.
- Photocell cutting machine with a cutting speed of 500 mm per minute
- Oxy fuel machine: the maximum sheet length is 13000 mm, the maximum sheet width is 4000 mm, the maximum thickness is 250 mm, and the average cutting speed is 350 mm per minute.
- 12 ton magnet crane, 10 ton hockey crane, 3 wall mounted cranes (each one 3 ton).

- **Sheet metal bending and angling workshop equipped with the following machines:**
 - 13 meter roll machine
 - 800 ton press machine
 - Three-axis roll machine
 - Profile bending machine
 - 2 overhead cranes of 40 tons, 2 hooks of 20 tons, 2 gantry cranes of 6 tons

- piping workshops (with main stations for cutting, assembly, pipe bending, welding, spool testing, spool installation, etc.)
- Turning workshops equipped with the most advanced machines in the world (13-meter lathe, radial drill machine, magnetic stone machine, Lathe milling machine, etc.)
- Mechanic and repair workshops
- Painting workshops equipped with automatic paint sprayers in a closed space with a daily capacity of 1500 square meters
- Workshop for making structural accessories equipped with: crank saw machine, 2 mm guillotine machine, punch machine, 1 meter roll machine, sheet bending machine, column drill and 20 ton and 5 ton overhead cranes and two 3 ton column cranes.
- Carpentry and woodworking workshops equipped with the most advanced devices in the world
- Aluminum workshop (building aluminum vessels
- Plate, profile and pipe cutting, chamfering and welding workshops equipped with cutting, chamfering, milling, welding and 25 ton overhead cranes)
- Repair workshops for all vessel mechanical systems
- Welding and assembly workshops
- Carpentry workshops (two carpentry workshops equipped with up-to-date and advanced tools)
- The main workshop of marine structures (7500 square meters): 1. Four overhead cranes, cutting machines, chamfering machines, welding machines and...



- Pipe cutting and beveling workshop (600 square meters): 1. Capable of cutting pipes up to 2000 mm thick 2. Three Mueller machines, 2 overhead cranes
- Piping workshop (1920 square meters): 1. Two overhead cranes with a capacity of 25 tons, welding and chamfering machines
- Mechanical workshop (1200 square meters)
- Open area for the construction of oil and gas platforms with an area of 100,000 square meters
- Storage equipment, material handling and control

•The equipment and machinery required for loading operations of marine structures include:

1. Ballast pumps, jacks, heavy lifting and carrying equipment (Rigging Items), winches and...
2. Four bogie stations with a carrying capacity of 250 tons
3. Two skids in length (120 meters and 200 meters) with load bearing capacity of 4000 and 8000 tons

Machinery:

- Types of accordion lift, telescopic lift, forklift, tractor, mini loader, bobcat, 10, 35 and 60 ton mobile cranes
- 5 mobile cranes with a capacity of 200 to 300 tons
- Heavy and light forklift
- All types of lifting devices
- Tug boat
- Bogie
- Tractor
- Heavy vehicle
- Bobcat machine
- Giraffe crane
- Mobile crane
- Wall crane
- Overhead crane



ISOICO

Special Economic Zone

www.isoico.co**Design, construction and repair group of small vessels**

The design, construction and repair group of small vessels is considered to be the oldest department of ISOICO, which is capable of designing, building and repairing all types of vessels up to 800 tons weight and 3000 DWT capacity, including (catamaran, fishing, tugboat, landing craft, all kinds of barges, passenger vessels, etc.).

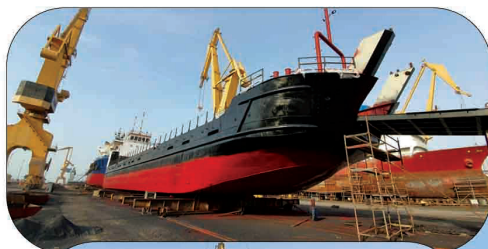
capabilities:

- Repair of 2 to 16 cylinder engines
- Repairing hydraulic systems, pumps and jacks
- Doing all kinds of welding; Brass, bronze, electricity, steel, nickel, chrome and cast iron
- Performing all types of TIG-MIG-MAG welding, vessel propellers, long steel shafts and submerged arc welding
- Repairing marine engines and gearboxes in different powers and shafts and propellers
- Repair of rudder, rudder blades of small and large units, as well as repair of hydraulic and electric pumps related to vessels.
- Repair of condenser , engine , anchor winches and rudder hydraulic jacks
- Building and cutting all kinds of wooden wedges for docking and undocking
- Opening and closing the wooden panels related to the walls and roof of various vessels and installing glass wool
- Design, construction and implementation of interior decoration of all types of vessels
- Lathing and machining all kinds of shafts and propellers in different diameters up to 6 meters long and all kinds of couplings for crane jacks, forklifts and heavy equipment
- Lathing all kinds of steel liners, ship rudder, piping system valves, pump pieces and all kinds of bushings and flanges

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- Lathing all kinds bolts and nuts in any diameter in mm and inch
- Lathing of all kinds of large and small vessel bushings, including ferroform bushings, Seaknight, Orket, etc
- Cutting, drilling and manufacturing threads all kinds of industrial pieces



A number of ISOICO newbuilding g(construction) projects in the small vessels group:

- 10 barges with a capacity of 2000 tons
- Two landing craft with a capacity of 1800 tons
- Three landing craft with a capacity of 1200 tons
- Two tugboats
- An auxiliary skiff float (Vessel for spreading and collecting fishing net)
- A river dredger vessel
- Design and construction of concrete and metal structure of Bahman multi-purpose jetty for tourism and economic connection between Iran and Oman
- Design and construction of multi-purpose jetties of Shahid Rajaei Port, Shahid Haqqani Port and Faroor Island
- Design and construction of 4 phantom for mooring passenger vessels

Design, construction and repair group of medium vessels

The design, construction and repair group of ISOICO medium vessels has been established in a space of 120 hectares for design and construction of all types of vessels up to 35000 DWT. This group has the most complete vessel production line in the country due to having numerous and well-equipped production workshops and advanced and unique facilities and equipment. The design, construction and repair group of medium-sized vessels of ISOICO relying on ISOICO's unique facilities and strong and well-equipped offices and headquarters units has the ability to build all kinds of ocean-going vessels, oil and gas platforms, repair drilling rigs (Jack Up), repair specialized vessels with various application such as container vessels, oil tankers, dredges, tugboats, fishing boats, barges, landing craft, passenger and recreational vessels, etc. The first ocean going vessels of the country were designed and built in group of ISOICO.

Capabilities:

- Design, construction and repair of all types of vessels up to 35000 DWT capacity
- Basic and detailed design of all types of vessels using software such as (Tribon, Autoship & Ansys).
- Preparation of workshop and construction engineering drawings by software (Tribon, Autocad)
- Construction of various oil and gas platforms
- Repairs of drilling rigs (Jack Up)

A number of renovation (construction) projects

- Overhauling more than 300 vessels, including container vessels, oil tankers, bulk carriers, dredges, fishing vessels, tugboats, landing craft, barges, passenger vessels, etc.
- Overhauling Shahid Modares, Sina 1, Pasargad, Sahar 2 and Mapna drilling rigs (in two stages)

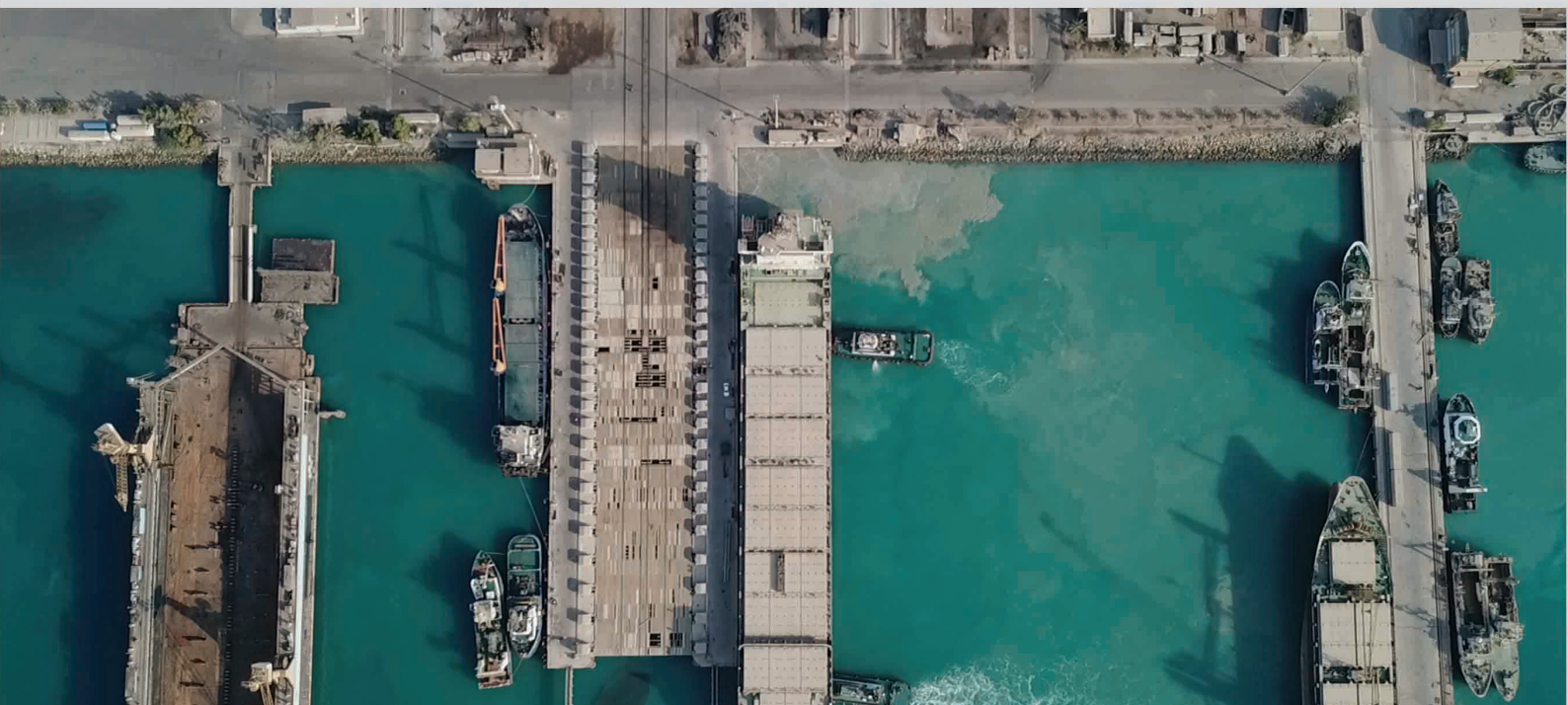
A number of miscellaneous projects

- Design, construction and installation of the steel structure of the wharf and jetty intake deck from Jegin Dam lake
- Design and construction of shrimp breeding pond hatches
- Design and construction of Shahid Rajaei access bridge and jetty
- Construction of two gantry crane booms for Shahid Rajaei jetty
- Design, construction and installation of the steel structure of the access bridge of Hormoz Island jetty



A number of renovation (construction) projects

- Construction of three ocean-going container ships with a length of 187.25 meters, a width of 29.8 meters, a height of 17 meters and a capacity of 2200 TEU under the German GL classification society supervision
- Construction of a 35,000 ton oil product carrier with a length of 176 meters, a width of 31 meters and a height of 17 meters under the French BV classification society supervision.
- An oil pollution collecting vessel with a length of 55.5 meters, a width of 13 meters and a height of 6.5 meters with a capacity of 550 cubic meters under the Norwegian DNV classification society supervision.
- Construction of a fishing support vessel with a length of 64 meters, a width of 11.8 meters and a height of 4.8 meters and a capacity of 450 tons of fish, 500 tons of fuel and 350 tons of water, equipped with a modern refrigerator and a freezing tunnel under the ICS classification society supervision.
- Three multi-purpose service vessels with a length of 40.4 meters, a width of 10.2 meters and a height of 4.3 meters under the ACS classification society supervision.
- Three landing craft catamarans with a length of 64 meters, width of 18.5 meters, height of 4.2 meters with a capacity of 550 tons or 9 vehicles under the ICS classification society.
- A Leisure passenger catamaran vessel with a length of 38 meters, a width of 12 meters and a height of 4 meters and a capacity of 300 passengers under the ACS classification society supervision.
- Fuel barge tanker with a length of 130.4 meters, a width of 29.8 meters and a height of 8.3 meters with a capacity of 15,000 tons (the largest fuel barge in the Middle East)
- Participation in the construction of Hendijan oil platform and gas platforms in South Pars phase 14



Phase 16 of South Pars

ISOICO as an EPCI contractor

Offshore platform, main platform 2400 tons + jacket 2000 tons

The middle structure of the platform and ISP jacket, the flare structure of the platform and FSP jacket, the ISP bridge, the FSP bridge, the flare structure

South Pars phase 17 and 18 platforms

"Commissioning platform 18B in 62 days and 17B in 26 days"

EPCI contractor of South Pars gas field development phase 14 project

- SPD 14A main platform

- SPD 14B main platform

- Four four-legged jackets

- Four tripod jackets

- Four bridges

- The production capacity of each platform is 500 MMSCFD

Handijan Offshore platform development plan

-Two jackets

- Two platforms (WHP08, WHP07)

- 4KM submarine pipeline (Between WHP08, WHP07 and Bahrgansar)

- 36KM submarine cabling (Between WHP08, WHP07 and Bahrgansar)

- The production rate of each platform is 25,000 STBD

- Hengam Offshore platform development plan

- WHP1 main platform with weight of 1700 tons

- WHP2 satellite platform with weight of 1500 tons

- WHP3 satellite platform with weight of 1500 tons

- Production rate: 30,000 STBD

- Gas Oil Ratio (SFC/STBD) GOR , ratio of gas to oil: 6000

Design, construction and repair group of large vessels

ISOICO large vessels design, construction and repair group started its activity in 1386 in a land area of 130 hectares with the mission of completing the construction of dry ponds and then operating it 37 kilometers west of Bandar Abbas. Dry docks project having two areas of repair and newbuilding, respectively with the dimension of (375 meters long, 80 meters wide, 14.5 meters deep and 475 meters long, 80 meters wide, 14.5 meters deep) is considered unique in the country and among the largest in the region.

This group, having one of the largest infrastructures for the repair and construction of various types of wide-bodied oil tankers with a capacity of 350 thousand tons and a gas carrier with a capacity of 140 thousand cubic meters and drilling rigs and using the power of domestic experts after a The trial period entered the vessel repair market from 2015, so that from now on, the country's marine industries will be ready to provide services to domestic and foreign customers with a greater capacity. The design, construction and repair group of large vessels of ISOICO, relying on facilities such as dry docks, new machines and equipment, and specialized staff in the field of shipbuilding, has the ability to put large projects on its agenda in the field of repairs and newbuilding and respond to applicants in various fields including engineering and support.

In this group, ISOICO has the ability to design, build and repair the largest ships in the world, such as ULCC, VLCC, LPG Career and Bulk carrier, etc., at the highest quality level and in the shortest possible time.

Repair of 330,000 ton VLCC ships

VLCC oil tanker propeller repair with a weight of 75 tons for the first time in the country

Repairing a giant foreign oil tanker in 15 days and making a record

Repair of Drilling rigs

Repair of Gas carrier vessels

Repair of container vessels

Carrying out more thantons of structural work per year

Group of marine structures

ISOICO has been active in offshore projects since 2010 and has experienced various projects in the construction of platforms. The rapid growth of demand in the offshore platform industry prompted ISOICO to establish a professional and specialized company in offshore oil and gas projects. For this purpose, Mobin Sazeh Gostar Persian Gulf Company was established and organized in 2017 at the same time as the 12th and 16th phases of South Pars projects started.

Considering the successful experience in the projects of phases 1, 2, 3, 6, 7, 8, 12, 14, 16, 17 and 18 of South Pars, Handijan and Hengam oil fields, as well as having skilled and specialized human resources and Modern workshop facilities accessible in Iran, this company continued its activities with Farozan oil field projects and Phase 11 of South Pars.

The organization of an efficient and agile structure along with suitable and unique infrastructure, advanced machines and equipment gave ISOICO the possibility to design, build, transport, install and operate marine structures such as oil and gas platforms, pressure boosting platforms and jackets. The organization of an efficient and agile structure along with suitable and unique infrastructure, advanced machines and equipment gave ISOICO the possibility to be unrivaled in the region in the field of design, build, transport, install and operate marine structures such as oil and gas platforms, pressure boosting platforms and jackets of these platforms. And by localizing related knowledge, it internalizes this industry and make the country free from dependence on foreign countries, so that in the current market of the offshore industry, it will be one of the most reliable and best options for its employers.

Main activities and scope of services

EPCI contractor of offshore oil and gas projects, including engineering, purchase, construction, transportation, pre-commissioning and installation of all types of marine platforms.

EPCI contractor of marine pipelines and cabling.

EPCI contractor of maintenance and repair of marine structures.

EPCI contractor of recycling out of service platforms.

EPCI contractor of offshore oil and gas projects.

EPCI contractor of constructing drilling rigs(jack-up).

Marine transportation and marine installation operations.

Repair and maintenance and reconstruction of marine platforms of marine platforms.

Ongoing Projects

Development plan of Forouzan oil field-
South Pars Phase 11A project-

Part of ISOICO projects in the field of marine structures:

Development project of South Pars gas field - Phase 1 jacket

Scope of activity: preparation and construction, loading, bracing

Development project of South Pars gas field, phases 2 and 3

Scope of activity: construction of jackets, topsides and ancillary facilities (wp2 deck, four jackets, four tripods, decks, two flares, four bridges)

South Pars gas field development project, phases 6, 7 and 8 jackets

Scope of activity: detailed engineering, purchase of equipment, construction, loading, transportation, installation (EPCI package)

South Pars phase 12 jacket

Scope of activity: EPCI contractor of three jackets



ISOICO

Iran Shipbuilding & OffShore Industries Complex Co.

Persian Gulf Shipbuilding Special Economic Zone



ISOICO

37 km west of Bandar Abbas, Iran Shipbuilding and Offshore Industries Iran, Bandar Abbas
PO Box 3859-79145, Phone: 076-32571065 Fax: 076-32571089,

Tehran Office: No.31, Shahid Nejadagi St. (Kamkar), South Mirzaye Shirazi St, Tehran, Iran
PO Box 15815- 3336, Phone: 021-88810045, Fax: 021-88810046

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