

KARIMUN YARD

SAIPEM INDONESIA



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YARD FOR THE FABRICATION OF JACKETS, TOPSIDES, MODULES AND INTEGRATION OF TOPSIDES ONTO HULLS IN OIL & GAS, RENEWABLES & INFRASTRUCTURES PROJECTS

TECHNICAL SPECIFICATIONS

GENERAL INFORMATION

- Overall area: 1,584,089 m²
- Overall office area: 6,276 m²
- Overall fabrication area: 880,271 m²
- Utilities and services area: 235,741 m²
- Dumping area: 95,257 m²
- Marine base storage: 36,245 m²
- Distance to closest international airport: 90 km
- Free trade zone: yes
- Average annual temperature: 26.7° C
- Average annual rainfall: 88.6 in

OFFICES AND FACILITIES

- Office area: 3,300 m²
- Client office area: 1,650 m²
- Training center: 1,326 m²
- Accommodation area (including recreation facilities): 151,792 m²
- Accommodation beds: 268
- Medical facilities: 1,303 m²
- Medical beds: 8
- 24/7 doctor

FABRICATION AREA

- Overall covered fabrication area: 60,724 m²
- Overall open fabrication area: 819,547 m²

Structural steel fabrication area

- Covered workshop: 26,500 m²

Piping fabrication area

- Workshop for carbon steel: 4,760 m²
- Workshop for exotic materials: 2,380 m²
- Heavy/light welding line: 20,650 m²

Blasting/painting area

- Covered workshop: 14,425 m²
- Covered assembly area: 5,700 m²

Erection area

- Overall open area: 759,547 m²
- Soil bearing capacity: 40 t/m²

Warehouse & bulk storage area

- Covered: 6,300 m²
- Open: 60,000 m²

Maintenance shop area

- Covered: 5,400 m²

YARD EQUIPMENT

Preparing, bevelling and welding

- 2 x Rolling machines
max. thickness: 68 mm
max. width: 4,000 mm
- 3 x Profiling machine (plate)
max. cutting width: 5,000 mm
max. cutting length: 30,000 mm
- 3 x Profiling machine (pipe)
max. length: 32,000 mm
max. diameter: 2,035 mm
- Beveling machine (plate)
max. length: 12,000 mm
max. width: 3,000 mm
- Profile auto blast machine (pipe & spoils)
max. length: 25,000 mm
max. width: 3,500 mm
max height/dia: 3,200 mm
with 103 m long motorized conveyor
- 17 x 3D automated fit up tool with 8 x half leg rotator
Stub dia: 500 to 1,300 mm
Capacity-SWL/unit: 3 t
Angle adjustment: ±360°

Welding machines

- 246 x SMAW
- 182 x MIG
- 388 x TIG
- 620 x FCAW
- 40 x SAW
- 5 x Lathe machines
Max. diameter: 1,219 mm

Lifting and handling

- 8 x Tower crane

- 9 x Crawler crane
- 12 x Gantry crane
- 2 x Quay crane
- 21 x Mobile crane
- 41 x Overhead crane
- 47 x Forklift
- 16 x Multiwheels
- 6 x Cherry picker

YARD GENERAL FABRICATION CAPACITY

- Annual tonnage: 35,000 t/year
- Annual man-hours: 10,000,000 mhrs/year
- Largest jacket weight: 30,000 t
- Largest module weight: 40,000 t
- Load out method: skidding, multiwheels, cranes
- Whip hook: 120 t

QUAY

- Total length: 900 m
- Reinforced length: 2 x 50 m
- Soil bearing capacity: 10 t/m²
- Distance to open sea: 50 m
- Water min. depth: -11 m (LAT)
- Tide variation: +/- 2.5 m

SKIDWAYS

- Quantity: 2
- Soil bearing capacity: 50 t/m²

CERTIFICATIONS

- ISO 9001: 2008
- ISO 14001: 2004
- OSHAS 18001: 2007

DID YOU KNOW?

THE WORLD LARGEST INTEGRATED TOPSIDE MODULE (14,273 T) WAS LOADED-OUT BY SKIDDING METHOD ONTO THE JANGKRIK FPU HULL IN 2016 AT SAIPEM KARIMUN YARD

Saipem Karimun Yard is located on Karimun Island (Indonesia) 30 km away from Singapore Island and from Batam Island (Indonesia). Comprising a marine supply base and a fabrication area of over 780,000 m², with an annual production capacity of 35,000 t, it is one of the largest fabrication facilities for the energy industry in the Asia Pacific region, also serving projects worldwide.