

# 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 m<sup>2</sup>
- Overall office area: 6,276 m<sup>2</sup>
- Overall fabrication area: 880,271 m<sup>2</sup>
- Utilities and services area: 235,741 m<sup>2</sup>
- Dumping area: 95,257 m<sup>2</sup>
- Marine base storage: 36,245 m<sup>2</sup>
- 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 m<sup>2</sup>
- Client office area: 1,650 m<sup>2</sup>
- Training center: 1,326 m<sup>2</sup>
- Accommodation area (including recreation facilities): 151,792 m<sup>2</sup>
- Accommodation beds: 268
- Medical facilities: 1,303 m<sup>2</sup>
- Medical beds: 8
- 24/7 doctor

##### FABRICATION AREA

- Overall covered fabrication area: 60,724 m<sup>2</sup>
- Overall open fabrication area: 819,547 m<sup>2</sup>

##### Structural steel fabrication area

- Covered workshop: 26,500 m<sup>2</sup>

##### Piping fabrication area

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

##### Blasting/painting area

- Covered workshop: 14,425 m<sup>2</sup>
- Covered assembly area: 5,700 m<sup>2</sup>

##### Erection area

- Overall open area: 759,547 m<sup>2</sup>
- Soil bearing capacity: 40 t/m<sup>2</sup>

##### Warehouse & bulk storage area

- Covered: 6,300 m<sup>2</sup>
- Open: 60,000 m<sup>2</sup>

##### Maintenance shop area

- Covered: 5,400 m<sup>2</sup>

##### 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 & spools)  
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/m<sup>2</sup>
- 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/m<sup>2</sup>

##### 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 m<sup>2</sup>, 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.