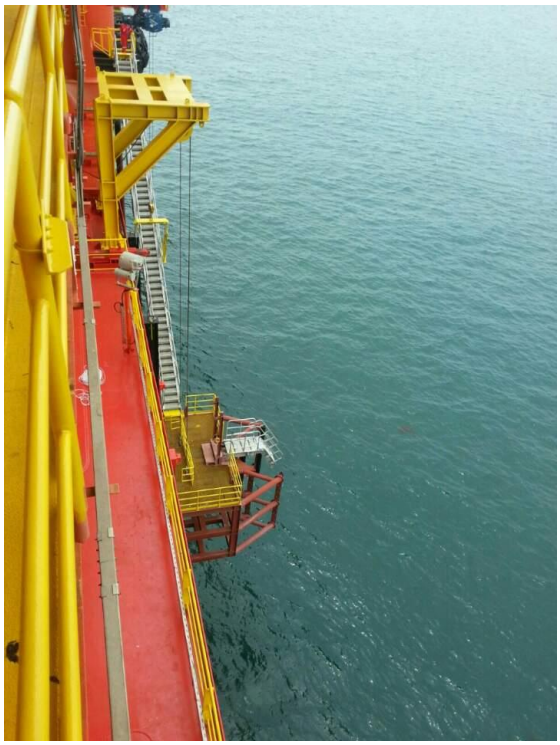
MAHA TECH ASIA PTE LTD

Offshore Gangway





Company Profile

Started in 1999 as Kosin Trading Pte Ltd with expertise in handling minor marine projects and trading of goods, the company was rebranded to STK Engineering Pte Ltd to consolidate its focus in the maritime sector. After several years in the industry, STK Engineering Pte Ltd merged with Maha Tech Asia Pte Ltd in 2018 to consolidate its work process and to provide even better services to our clients.

We are committed to providing quality service and delivering quality products on time, and with its own brand of globally recognised gangway towers and expertise in multiple jetty products, our business clienteles have over the years included businesses from across Asia, Middle East and beyond.

What is a Gangway?

Gangways are essential to the full operation of a jetty. They are bridges that facilitate passenger movement from the jetty to a ship and vice versa, and are designed to work in tandem to a ship's movement.

Once installed on deck, it can be easily operated and maintained at comfortable angles for the convenience of the passengers.

By using hydraulic cylinder operations, it ensures a smooth, comfortable and safe motion for all users.

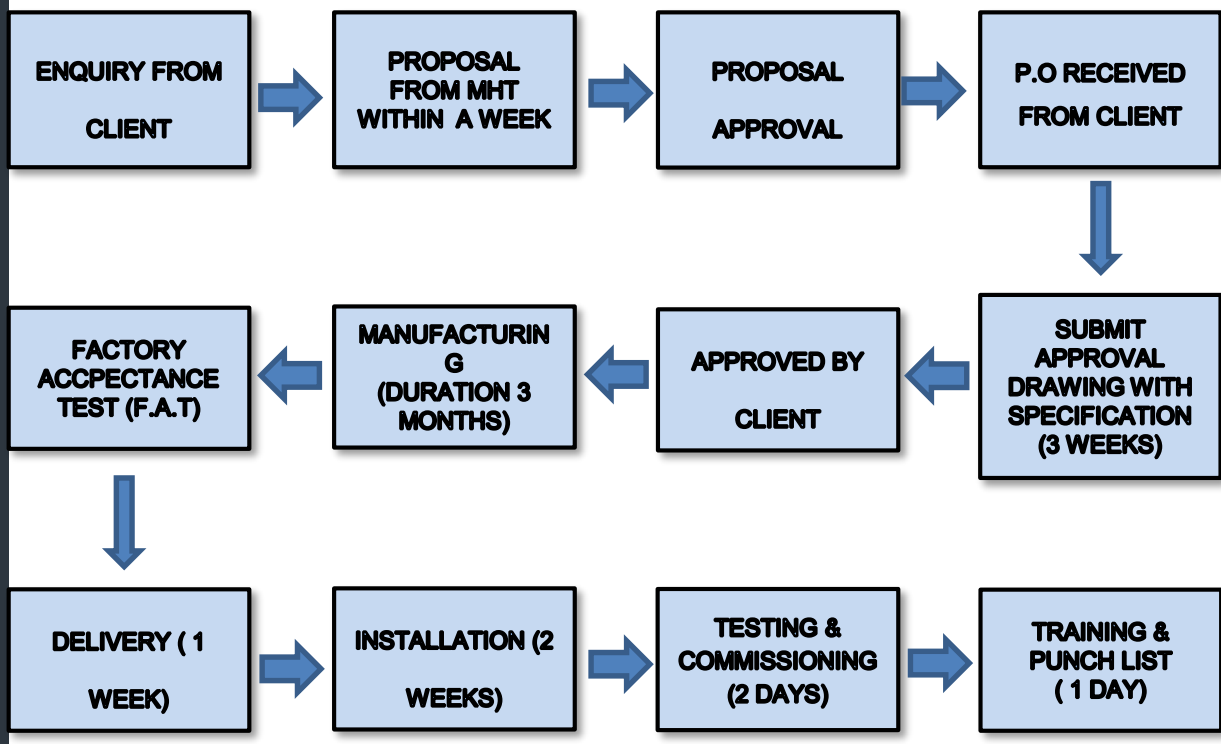
Telescopic gangways are used for compact design and greater range of our product.

International Standards

ISO 5488: 1979 for Gangway Ladder

ATEX Ex Certified

Gangway Tower Project Flow



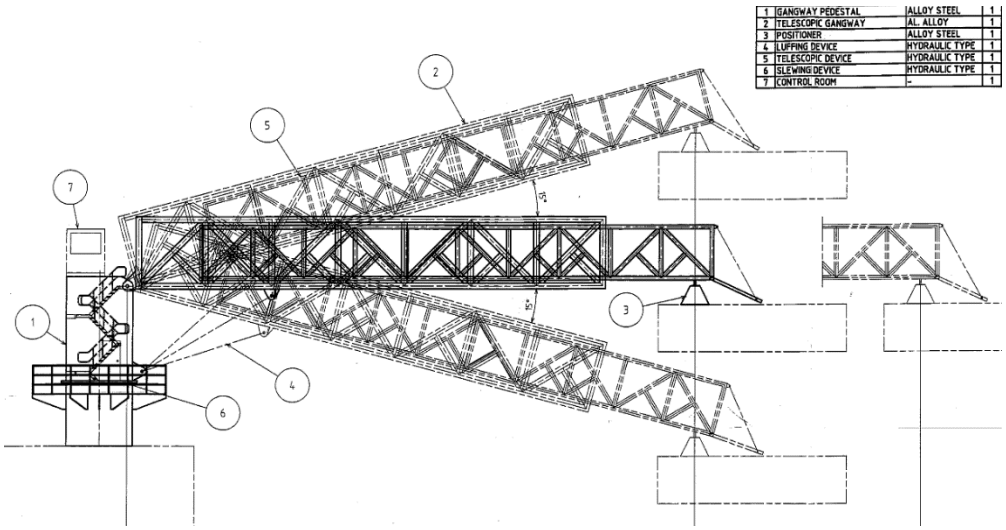
Key Features

- Hinge Type Bulwark Ladder
  - No damage to ship incurred in case of emergency disembarkment
- Fixed Curve Step / Self Levelling Step
- Auto Mechanism
  - Gangway ladder adjusts to any ship movement, even in hydraulic lock position
- Cast Roller
- Compact Size
  - Allows gangway tower to be installed in even the narrowest of space
- Aluminum Ladder Frame
  - Aluminum T6 6061, less weight, high tensile strength
- Sprocket Gear
- Hand pump manual override
- Single hydraulic power pack
- Warranty
- Components from established brands

Gangway Features

- Heave Compensation System
  - Slewing Motion
  - Luffing Motion
  - Telescopic Motion
  - Usage of Motion Reference Unit (MRU) to eliminate relative motion

Heave Compensation System



Active Mode

- During operation, MRU sends signal for the hydraulic cylinders to extend and retract, thus keeping the gangway at constant elevation

Passive Mode

- After landing, heave compensation system will be switched from active to passive mode, allowing the gangway to follow the relative movement as long as needed

Heave Compensation System

Slewing Motion

- Horizontal movement about a central pivot. The control cabin, MRU and Gangway are placed on a rotating turntable to enable horizontal movement.

Luffing Motion

Vertical movement about a central pivot. Gangway will be inclined up and down within its stated angle limits about a pivot.

Telescopic Motion

Gangway will be extended or retracted as necessary, and this motion can be done even during the operation of the gangway.

Functions



Transfer Pipelines

- Gangways support hoses and pipes for pumped fluid transfer purposes as well as electrical power

Supporting Cone

- Aid in stablisation of Gangway after landing

Deluge System

- Gangways are equipped with fire suppressing deluge piping to protect personnel from fire hazards

Hydraulic Components

Pump Room

- MRU is relayed to the main controller that uses information to control a hydraulic motor connected to a variable pump

Hydraulic Power Unit

- For heavy and systematic lifting via repeated use of powerful and directional force through hydraulic pressure

Accumulator System

- Saves on energy gain/loss while accommodating the rise and fall of the sea movements
- Excess energy is stored within the accumulator system for use during emergency when electricity is unavaiable

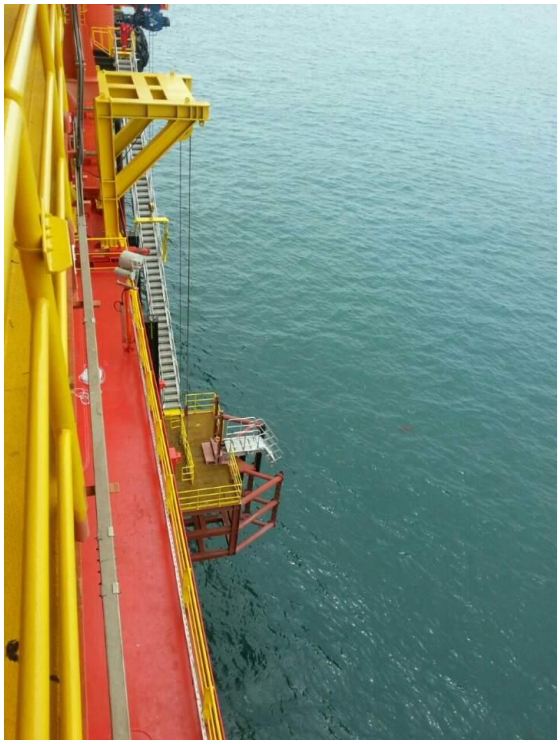
Completed Projects

Completed Projects



Type: Offshore Gangway
Owner: Technip Australia
Project: Offshore Gangway
Location: Client's jack up
Completed: Nov 2014

Completed Projects





Type: Offshore Gangway
Owner: SAIPEM / ENI
Project: FPSO Ship Modification
Location: Keppel Shipyard Singapore
Completed: Oct 2016

Completed Projects



Type: Offshore Working Ship Gangway (12 Meter Telescopic by Manual Operation)
Owner: Nordic Maritime
Project: Oilfield Working Ship Gangway
Quantity: 1 unit
Completed: Feb 2018

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