

# Asiaflex Products

The unique flexible pipe and umbilical manufacturing facility in Asia



# Technip profile



A world leader in engineering, project management and technologies, serving the energy industry for more than 50 years

A regular workforce of 23,000

Confirmed leadership and proprietary technologies in 3 business segments:

## Subsea

Within the domain of subsea hydrocarbon field development, Technip's activities cover the design, manufacture and installation of rigid and flexible subsea pipelines and umbilicals. Technip is a key integrated player on this market thanks to its portfolio of state-of-the-art subsea pipe technologies and industrial and operational assets.

The Group has three flexible pipe manufacturing plants (and a fourth in the planning stage), four umbilical production units, four reeled rigid pipe spoolbases and a constantly evolving fleet of vessels that is strategically deployed to serve the world's major offshore markets.

## Offshore

In the Offshore business segment Technip performs engineering, procurement, construction, installation, commissioning and the refurbishment/upgrading of offshore facilities for the oil & gas industry.

Technip provides these services for fixed platforms in shallow water with conventional sub-structures and self installing platforms such as the TPG 500 and for deepwater facilities including Spar, semi-submersible, TLP, FPSO and FLNG units. Technip is a world leader in floatover installation of topsides and its R&D effort is focused on technology transfer for local content and new frontier areas such as ultra-deepwater and the Arctic.

## Onshore

Technip covers the full range of onshore facilities for the oil and gas chain, petrochemicals and other energy industries (nuclear, renewables including biofuels and offshore wind turbines). The Group is also present in non-energy activities (mining and metals, life sciences, buildings and infrastructures).

Technip holds many proprietary technologies and is the leader in the design and construction of LNG and gas treatment plants as well as ethylene, hydrogen and syngas units. It is one of the leading players worldwide in refining and petrochemical units.

# The unique flexible pipe and umbilical manufacturing facility in Asia

Asiaflex Products is located in the Tanjung Langsat Industrial complex, near Johor Bahru in Malaysia.

This strategic location has multiple benefits including direct access to all the major shipping routes to Asia and the rest of the world.

Designed to cater for the Asia Pacific and Middle East markets and to serve an extensive and diverse scope of national or international clients, Asiaflex Products has the capacity to manufacture flexible pipe and umbilicals.

The products manufactured by Asiaflex Products use the same qualified raw materials and manufacturing processes developed by Technip in the last 35 years.

The 20-hectare site has been developed as a one-stop hub, where the manufacturing of flexible pipe and umbilicals, the mobilisation of transportation and installation vessels and the fabrication of auxiliary equipment is fully integrated.

This facility, unique to the region, is equipped with a dedicated 130m long quay and a 300-tonne crane, providing facilities for the region's deepwater installation vessels and making mobilisation both cost and time effective.

Asiaflex Products' ideal location allows to considerably reduce the delivery lead time for flexible pipe and umbilicals required for the development of subsea fields in Asia Pacific and the Middle East.



Asia Pacific



Crane at the jetty



Manufacturing plant



## Fully integrated site dedicated to client satisfaction

The new facility provides on a single site the following services:

### One-stop hub

#### Flexible pipe manufacture

- Flowlines and risers in diameters from 2.5" to 16"
- Shallow and deep water
- Sour and sweet service
- Design pressure up to 15,000 psi (bore size dependent)
- Design temperature from -5°C up to 130°C

#### Umbilical manufacture

- Full range of DUCO qualified thermoplastic hose and steel tube components
- DUCOflex ultra low permeation and polyamide hose liner materials available across the range
- High collapse resistant hoses for deepwater application
- Low voltage electrical signal and power cables
- Medium voltage power cores
- Optical fibres
- Flying leads

#### Subsea structures fabrication

- Rigid spools
- FLET, PLET, in line tees

#### Vessel mobilisation and load out

- Dedicated quay to accommodate most subsea construction vessels and barges
- 300-tonne crane
- Installation equipment storage and maintenance
- Seafastening services

### Engineering and Project Management

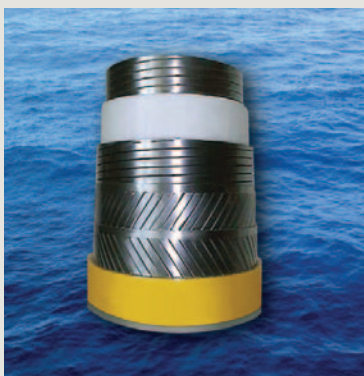
The same high standard of product is ensured through established and well controlled practices and technical support from Technip flexible pipe R&D centre (based in France) and from DUCO Ltd (based in the UK).

Project management and engineering services associated with the supply of flexible pipe and umbilicals are provided by Technip's regional head office in Kuala Lumpur or by one of the local Technip offices in the region.

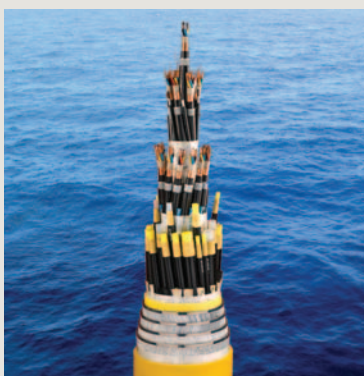
## A project oriented manufacturing facility

Asiaflex Products will use the same qualified raw materials and manufacturing processes developed by Technip in the last 35 years, to ensure delivery of products of the highest quality.

This facility alone has a manufacturing capacity of 200 km of products per year, supplementing Technip's existing capabilities across the world.



Flexible pipe



Umbilical



ISU®

### Industrial equipment

- New generation profiling, plastic extrusion, spiralling and armouring process lines and NDT equipment in a 13,000m<sup>2</sup> building fitted with overhead cranes
- Control systems specified with the latest technology, giving full traceability to product quality and process data
- State-of-the art in-line NDT equipment to ensure delivery of the highest quality, including X-Ray for thermoplastic tube inspection and ultrasound for thickness measurement
- Cross linking unit for up to 6 flexible pipe sections in parallel
- Assembly line for umbilical lay-up manufacture
- New 300-tonne capacity roller devices and specially designed reel carrier to transport reels
- 300-tonne large capacity reels with up to 12m flange diameter
- Covered hydrostatic and electrical testing areas and special fluids filling zone with high specification automation and monitoring equipment
- Dedicated packing building with automated handling equipment

### Supply chain

- Network of local suppliers developed with the support of the Technip Global Procurement Department
- Development of partnerships with international suppliers to maximise synergies

# Quality, Health, Safety and the Environment



Asiaflex Products operates following Technip's worldwide QHSE standards.

Effective QHSE management is key to a safe and efficient operation and to continuously improve performance and capabilities at all levels.

## Asiaflex Products' common goals are:

- Maintaining a safe, healthy and injury free workplace
- Quality in the performance of functions
- Respect for and avoidance of damage to the environment

## Our common culture is one of:

- Safe working systems which anticipate hazards and reduce risks
- Compliance with applicable standards and clients' requirements
- Working as a team and in partnership with clients and suppliers

## QHSE certifications

- ISO 9001:2008
- ISO 14001:2004
- OHSAS 1800:2007



Protecting the health and safety of our people is a core value and an absolute commitment

# Technip in Asia Pacific

A workforce of more than 4,000 employees in Asia Pacific with around 2,000 staff based in Kuala Lumpur, Technip's regional headquarters.



HEADQUARTERS

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