FIXED/DISCONNECTABLE TURRET & FLUID TRANSFER SYSTEMS

Allowing simultaneous transfer of fluids from subsea wellheads to vessel, with state-of-the-art automated connection and disconnection.
FES Fluid Transfer Systems support FPSO, DP or moored system operations, allowing **simultaneous transfer of fluids from subsea wellheads to the vessel**. Automated connection and disconnection of the disconnectable system removes the need for manual intervention and **can be disconnected within 40 seconds** in the event of a problem.
FES International supply a number of fluid transfer systems designs, including:

- Disconnectable And Fixed Turret Systems,
- Reeling Systems,
- Bow Loading Systems,
- Stern Off-take System,
- Skid Mounted Systems,
- LNG And LPG Transfer Systems,
- And Hose Breakaway Systems.

**SELECTED REFERENCE LIST**

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<tr>
<th>Client</th>
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<td>V.Adm. K. R. Wheeler</td>
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<td>Rubicon</td>
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</table>
DESIGN & ANALYSIS

FES International utilise highly qualified technical personnel and the latest software to design and analyse our products.

A combination of calculations in accordance with industry standards, sophisticated computer software & the latest FEA programmes are utilised to achieve the necessary design parameters and a first class engineered solution to each client project specification.
MANUFACTURE

All components are designed and manufactured by FES International and approved sub suppliers, ensuring that we retain control of product quality and material traceability.

ASSEMBLY & TESTING

In-house assembly and testing facilities ensure all test procedures and inspection & testing plans are strictly adhered to. On site, skilled and qualified engineers and technicians ensure that critical stages of installation are carried out in accordance with approved installation & testing procedures and methods.
Our quality management system has been assessed and accredited to ISO 9001:2015.

Further illustrating our commitment to QHSE, our quality management system has also been assessed and certified to the stringent industry specification API Q1.

Our health and safety management system has been assessed and accredited to OHSAS 45001:2018.

FES has been assessed and accredited to ISO 14001 certification for environmental management.

FES places quality and safety at the heart of everything we do.
BROVIG OFFSHORE - CRYSTAL OCEAN

Chestnut Field Development

FES Scope of Supply:
- Disconnectable Turret System
- Riser and Umbilical Hardware
- Mooring / Clump Weight Interfaces
BROVIG OFFSHORE – MAERSK RYE
Chestnut Field Development

FES Scope of Supply:
• Disconnectable Turret System (Export)
• Riser and Mooring Hardware
• Ship Interfaces
Woollybutt Field Development

FES Scope of Supply:
- Disconnectable Turret System
- Riser and Mooring Hardware
- Ship Interfaces
UPSTREAM PETROLEUM - CRYSTAL OCEAN
Basker / Manter Development

FES Scope of Supply:
• Disconnectable Turret System (Upgrade)
• Riser and Umbilical Hardware
• Mooring / Clump Weight Interface
FES Scope of Supply:
- Disconnectable Turret System (LP Butane & Propane Gas)
- Ship Interfaces
PETROFAC - IKDAM
Oudna Field Development

FES Scope of Supply:
- Tripod Catenary Mooring System Hardware
- Riser and Umbilical Hardware
- Mooring Interfaces / BSLM Interfaces
ECO – MV VICE ADM. K.R. WHEELER
Various Military Deployments Worldwide

FES Scope of Supply:
• Disconnectable Turret System (Bow Loading)
• Hose End Termination Connector System
• Automatic Over Boarding System
• Export Hose Reel and Flowline
HELIX ENERGY – HELIX PRODUCER
Phoenix Field Development

FES Scope of Supply:
• Disconnectable Turret System
• Riser and Umbilical Hardware
• Mooring / Clump Weight Interfaces
RUBICON – INTREPID
Galoc Field Development

FES Scope of Supply:
- Turret System
- Riser and Umbilical Hardware
- Diverless Bend Stiffener Connectors
KEY FEATURES
FES Fixed/Disconnectable Turret & Fluid Transfer Systems

- Automatic connection and disconnection system removes need for manual intervention
- Can be disconnected in 40 seconds
- Designs that can be retrofitted to FPSO or vessel with an existing moonpool
- Multi path turret swivel stack for production/gas/water/hydraulics/electrics
- Integrated winch handling system
- HPU and bridge control system designed to meet project needs
- ESD valves and actuators for full pipeline system control
- Interfacing pipe work for all flowlines and risers
- Supporting structures to provide access and support for turret operations
- Designed, manufactured and tested with full third party accreditation, with previous projects approved by DNV, ABS and Lloyd’s Register among others.
Contact Us

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