



RISER & DRILLING SYSTEMS

Barracuda BSC

Barracuda Bend Stiffener Connector

Oil States Industries is a world leader in the design and manufacture of advanced connection systems for offshore use.

Oil States' Barracuda Bend Stiffener Connector (BSC) is part of our new generation of connections specifically designed for deep water floating production, storage and off-loading systems (FPSOs); tension leg platforms (TLPs); and pipelines.

Extensively tested for durability and effectiveness, the Barracuda BSC offers a cost-effective, streamlined way to join the Bend Stiffener to the turret sections of an FPSO, FPS, TLP or Spar. At the heart of the system is the Barracuda connector, which has been specifically designed and field-proven for this application.

Barracuda BSC Advantages

- Diverless operation
- Prevents costly damage to flexible riser during pull-in
- No special tooling or personnel required
- Single-wire pull-in minimises rigging and vessel requirements
- High-fatigue pre-loaded design
- Automatic make-up during pull-in speeds riser installation
- Visual confirmation of make-up
- Suitable for a large range of riser and I-tube configurations

System components

Vessel-Mounted Receptacle

- Flanged or welded connection to existing I-tube
- Female Barracuda connector



Barracuda BSC | Risers range from 4" - 12" and I-Tube sizes from 16" - 34"

Pull-In Assembly

- Pull-in head and master link pin mounted on riser
- Barracuda male pin
- Optional riser end termination sealing plug
- Bend stiffener connector collar sleeve
- Riser release functionality
- Bend stiffener mounting flange
- The riser is pulled up from the seabed or DSV and is poised for alignment with the Barracuda receptacle. The pull-in head, followed by the Barracuda self-aligning male pin, then enters the female receptacle.
- The riser is then fully centralised, and the Barracuda connector is triggered automatically once the male pin is fully mated into the receptacle using winch over-pull.

The riser pull-in head and riser assembly is released automatically as the Barracuda is locked in position.

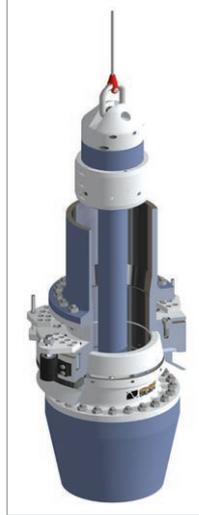
Extensive testing programmes, including assembly and pull-in trials to simulate the pull-in of the riser onto the hull of the FPSO have been undertaken by Oil States.



Stage 1
Male Barracuda BSC assembly pulled into Female Barracuda BSC. Assembly attached to vessel.



Stage 2
Male Barracuda BSC assembly latched into Female Barracuda BSC assembly.



Stage 3
End Termination and Flexible Riser released and pulled through to topside for vessel integration.

Track Record		Total BSC Assemblies
2022	MJ-1, TechnipFMC (Bay of Bengal)	9
2020 - 2017	Lancaster, Hurricane Energy (West of Shetland)	13
2019	Karish Field Dev, Technip (Israel)	2
2011	EON Ruhrgas (Central North Sea)	5
2008	Shelly Oilexco (North Sea)	4
2008	TUI, NZOP (New Zealand Overseas Petroleum Ltd)	12
2005	Enfield, TSEJV (Western Australia)	11
2004	Kizomba B FPSO, Duco (Angola)	1
2003	Ringhorne, Jurassic, Technip (Norway)	3
2001	Typhoon, Rockwater (Gulf of Mexico)	8
1999	Jotun, FPSO, Rockwater (Norway)	10

OIL STATES INDUSTRIES
RISER & DRILLING SYSTEMS

Sales, Engineering & Manufacturing
EUROPE & EURASIA
2 Heartlands Terrace
Heartlands Business Park
Whitburn, West Lothian
EH47 0SF
Scotland, UK
Tel +44 1506 896 000

ASIA
42-H Penjuru Road
Singapore 609158
Tel +65 6773 7555

Regional Sales
EUROPE & EURASIA
Moss Road
Gateway Business Park
Nigg, Aberdeen
AB12 3GQ
Scotland, UK
Tel +44 1224 290 000

5 Allée des Mésanges
13012 Marseille, France
Tel +33 491 95 60 51

Vagif Mustafazade Street 6/10
1st Floor, Sahibtac Business Centre
Old City, Baku AZ1010
Azerbaijan
Tel +994 12 598 1125

SOUTH AMERICA
Av Presidente Wilson, 231
14th Floor
Bloco 2, Sala 105
Rio de Janeiro, RJ Brazil
CEP 20030-905
Tel +55 21 3554 6644

MIDDLE EAST
HDS Tower, Unit 2209, Cluster F
Jumeirah Lakes Towers
Dubai, United Arab Emirates
Tel +971 4 452 8482

pullin.connectors@oilstates.com