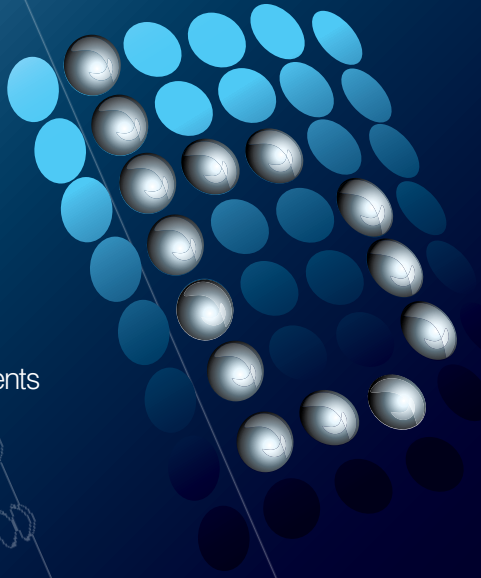


Baltec

Mechanical connectors for hostile environments



Pipeline Recovery Tools

Balltec

Mechanical connectors for hostile environments



Balltec Ltd 415mT SWL 10" Pipeline Recovery Tool on the BP Thunder Horse PLET Restoration Project

Pipeline Recovery Tools

Balltec's BREM ball engagement tools offer a robust, fast and reliable method of both abandoning and recovering subsea pipelines at any water depth. Drawing upon over 40 years experience in the design of such equipment, Balltec design and test Pipeline Insertion Tools suitable for any pipe diameter.

The well proven ball gripping interface has a huge load carrying capacity without the concentrated stress points associated with hydraulically actuated gripping segments found in alternative systems. Each individual ball has a freedom of movement allowing for surface imperfections such as welds to be accommodated without any reduction in grip integrity.

BREM tools can be supplied in male configuration (gripping the inside of the pipe) or female (gripping on the outside of the pipe).

De-watering and pig capture accessories are available. Various ROV interfaces are available to suit any deployment scenario.

Technical Specification

Available Sizes - any diameter of pipe or pile for any wall thickness

SWL - Limited only by pipe capacity

Materials - All load bearing components manufactured from high tensile forged bar.

Class - All BREM Pipeline Insertion Tools tools are designed, manufactured and tested in accordance with DNV Rules for Certification of Lifting Appliances.

Balltec Track Record

Technip (Aberdeen)

Bullurus Gas (Egypt) "Simian" & "Sapphire" Fields

4" Diameter - 65mT SWL
10" Diameter - 179mT SWL
20" Diameter - 345mT SWL
26" Diameter - 425mT SWL
Recovery Tools supplied with a 350mT SWL A&R Tool,
500mT SWL A&R Tool and 2 deployment arms

Subsea 7 (Norway)

Jotun Rectification

6" Diameter - 65mT SWL
Supplied with deployment arm

Subsea 7 (Brazil)

Petrobus Pipelaying

10" Diameter - 200mT SWL
12" Diameter - 250mT SWL
Supplied with deployment arm and 350mT SWL A&R Tool

Subsea 7 (UK)

Pipelaying Angola

6" Diameter - 90mT SWL
8" Diameter - 75mT SWL
Supplied with deployment arm

ENI

Allegheny South

4" Diameter - 40mT SWL
Supplied with deployment arm

Subsea 7 (Norway)

Pipelaying Norway

8" Diameter - 200mT SWL
Supplied with deployment arm

Technip (Houston)

Neptune

8" Diameter - 300mT SWL
Deployment arm & 350mT SWL A&R Tool

BP America Production Company

Thunderhorse PLET Restoration

2 of 8" - 30mm W.T. Diameter - 350mT SWL
2 of 8" - 35mm W.T. Diameter - 350mT SWL
3 of 8" - 38mm W.T. Diameter - 350mT SWL
5 of 10" Diameter - 415mT SWL
4 of 12" Diameter - 600mT SWL
All tools supplied with integral deployment arms and hydraulic
support collars to accommodate side load of 5% of rated

Technip (Houston)

PDET Profundo

18" Diameter - 750mT SWL
Supplied with deployment arm

Helix

Phoenix

6" Diameter - 40mT SWL
Supplied with deployment arm

Subsea 7 (Brazil)

Petrobras Hybrid

6" Diameter - 150mT SWL + De-watering Seal
8" Diameter - 185mT SWL + De-watering Seal
10" Diameter - 325mT SWL + De-watering Seal
12" Diameter - 300mT SWL + De-watering Seal
Supplied with 250mT SWL A&R Tool, 350mT SWL A&R Tool
and 2 deployment arms.

Acergy (Paris)

Tombua Landana

14" Diameter - 300mT SWL + De-watering Seal
18" Diameter - 300mT SWL + De-watering Seal
Supplied with deployment arm



200mT SWL Pipeline Recovery Tool with De-watering seal and
adapter plate. Used here to De-water and recover 12" O.D.
pipeline on the Vigdis Project, Norway.

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Balltec Track Record

Technip (Houston)

Bass Life

8" Diameter - 200mT SWL
supplied with deployment arm

Princess

10" Diameter - 300mT SWL
supplied with deployment arm

Shenzi

6" Diameter - 150mT SWL
8" Diameter - 250mT SWL
10" Diameter - 250mT SWL
supplied with deployment arm

Atlantis

10" Diameter - 400mT SWL
supplied with deployment arm

Thunderhorse Next

10" Diameter - 500mT SWL
supplied with deployment arm

Durado

8" Diameter - 300mT SWL
supplied with deployment arm

ATP Mirage

8" Diameter - 150mT SWL
10" Diameter - 200mT SWL
supplied with deployment arm

Perdido

6" Diameter - 170mT SWL
supplied with deployment arm

Pipe-Laying project. Contingency hire for the Vessel "Deep Blue"
Pipe-laying operations for 12-18 month period.



Sapura Acergy

Kikeh Gas Pipeline

12" Diameter - 300mT SWL + De-watering Seal

Allseas

Reliance

2 x 10" Diameter - 120mT SWL

Subsea 7 (Norway)

Mongstad

12" Diameter - 120mT SWL
Supplied with Deployment arm

Subsea 7 (Norway)

Vigdis

12" Diameter - 200mT SWL

Siapem (Singapore)

Blacktip

12" Diameter - 300mT SWL
18" Diameter - 300mT SWL

Subsea 7 (Houston)

Tombua Landana

12" Diameter - 120mT SWL

Subsea 7 (Brazil)

BC-10, Hybrid 2, Peregrino and Sul Capixaba

6" Pipeline Recovery Tool 12.7mm - 15.9 mm W.T.
+ De-watering Seal 200mT SWL

6" Pipeline Recovery Tool 18.2mm W.T.
+ De-watering Seal - 150mT SWL

6" Pipeline Recovery Tool 25.4mm
+ De-watering Seal 200mT SWL

8" Pipeline Recovery Tool 14.3mm - 20.6 mm W.T.
+ De-watering Seal 300mT SWL

10" Pipeline Recovery Tool 22.5mm - 25.4 mm W.T.
+ De-watering Seal 400mT SWL

12" Pipeline Recovery Tool 17.5mm - 27mm W.T.
+ De-watering Seal 400mT SWL

Acergy (Paris)

10" Diameter - 150mT SWL + De-watering Seal
18" Diameter - 300mT SWL + De-watering Seal

Allseas

Woodside, Pluto

20" Diameter - 500mT SWL + De-watering Seal

Track record correct as of February 2009