



Topsides and Jacket Load-out Presentation

Welcome to ACE Winches



ACE Winches is a global leader in the design, manufacture and hire of hydraulic winches, marine deck machinery and associated personnel for the offshore oil and gas, marine and renewable energy and construction markets.

- Established in 1993
- 200+ Employees
- Turnkey Solution Provider
- Award Winning Company



ACE Divisions



ACE Manufacturing

- Design
- Manufacture
- Testing
- Installation
- Bespoke equipment



ACE Hire Equipment

- Extensive range for hire
- Floating vessels
- Fixed offshore installations
- Land-based projects



ACE Hire Personnel

- Multi-disciplined
- Qualified
- Experienced
- Commissioning
- Operation



ACE Winch Academy

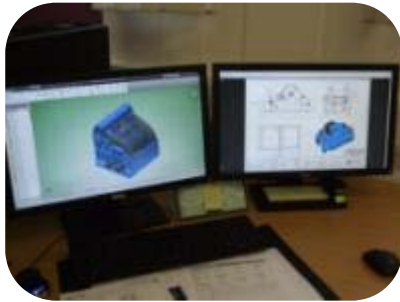
- Aims to be the unrivalled provider of competent, certificated personnel for winch operations



Total Project Solutions



ACE Winches provides turnkey design, manufacturing and delivery of quality equipment safely, on time and on budget.



From concept development to design....



...manufacturing, fabrication and assembly...



...to the final product , testing and delivery...



...and after sales Support

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THE DECK MACHINERY SPECIALISTS

Hire Case Study – Piltun Project



Topsides Load-out package and personnel support for “Piltun” Project, Sakhalin



The Piltun-Astokhskoye-B (PA-B) is a drilling, processing and production platform extracting oil and associated gas from the Piltun reservoir. The platform is located in a water depth of 32 metres and was installed on a pre-positioned concrete Gravity Base Structure in July 2007.



Load Out – Korea



3000km tow to Sakhalin



Location with GBS



Hire Case Study – Piltun Project



The T-shaped transport barge, measuring 190 by 92 metres, was specially built to safely carry the topsides on their 3,000km tow by sea from the fabrication yard in South Korea.

Once on the site, the barge was carefully towed between the four legs of the concrete gravity base substructure. The massive topsides were then slowly and smoothly lowered over the four legs by ballasting down the transport barge.

Special leg mating units built into the four legs allowed the topsides to achieve a perfect fit and acted as shock absorbers during the initial contact.

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Hire Case Study – Piltun Project



ACE Winches supplied load out winching equipment up to 120te capacity and operational personnel for all phases of operations, from shipyard to installation in Sakhalin.



**World's largest offshore platform topside
32,000te load out: Installed July 2007 –
Sakhalin PAB**



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Hire Case Study – Yuri Korchagin



Mooring Winch package and personnel support for “Yuri Korchagin” Project, Astrakhan, Russia



ACE supplied Mooring winches onboard the Sheerleg Crane Barge, ‘Volgar’ for operations during the float out and installation of Lukoil’s LSP-1 drilling & process rig and the LSP-2 accommodation unit . The two structures are bridge-linked and comprise a standard GBS and topsides arrangement in a water depth of 13m in the North Caspian.



Hire Case Study – Yuri Korchagin



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Hire Case Study – Yuri Korchagin



Yuri Korchagin LSP – 1 and LSP - 2

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Hire Case Study – Turkmenistan



GBS and Topsides Load-out package and personnel support: Turkmenistan Block 1 Development, MCR-A Platform



ACE Supplied 6 x 100te double drum diesel mooring winches, 8 x 70te single drum winches, 2 x 20te SWL A and R winches, 1 x 50te capacity spooling winch, 12 x diesel driven hydraulic power units, 20 x Line monitoring systems, and 18 operational personnel for installation and operation of winch equipment.



Load out of jacket and topsides offshore Turkmenistan in 2010 and 2011



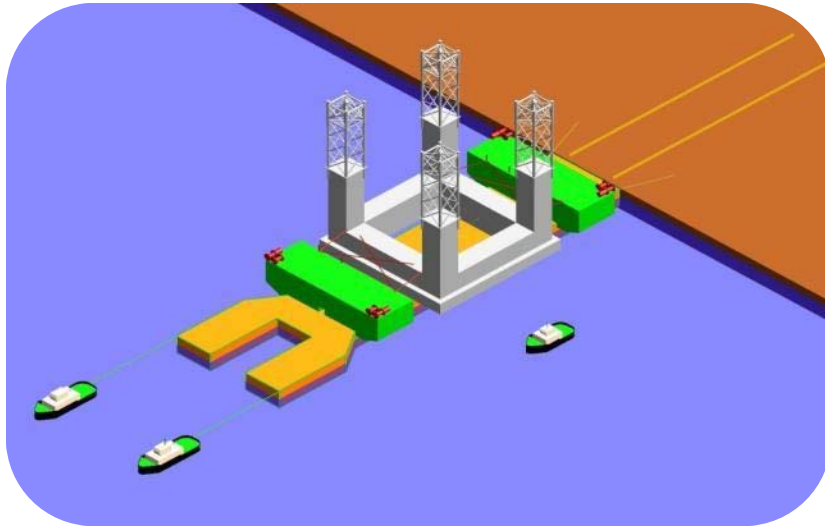
Operated by Hire Personnel



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Hire Case Study – Turkmenistan

Stage I: Quayside GBS Load Out



The semi-submersible barge is moored at Kiyarly quay and the GBS has been skidded onto the barge and sea fastened using ACE's Winches and Personnel.

Final weighing is carried out prior to the GBS load out. The removable foremost stability box is lifted in place and fastened after load out.

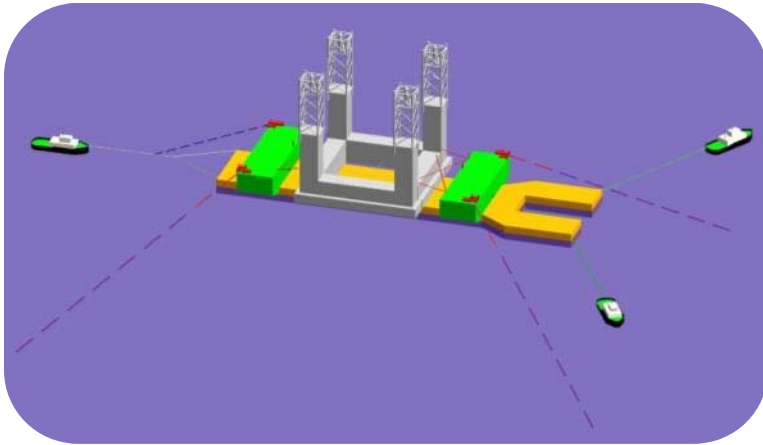
Dry tow starts after the barge is de-ballasted; towing wires are connected to tugs and the mooring wires are released.



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Hire Case Study – Turkmenistan

Stage 2: Float Off Site Anchoring



The Installation barge is towed out and moored up at the float-off location utilising ACE Mooring Winches and Personnel Support; the GBS is held in position by the ACE Tether Winch System.



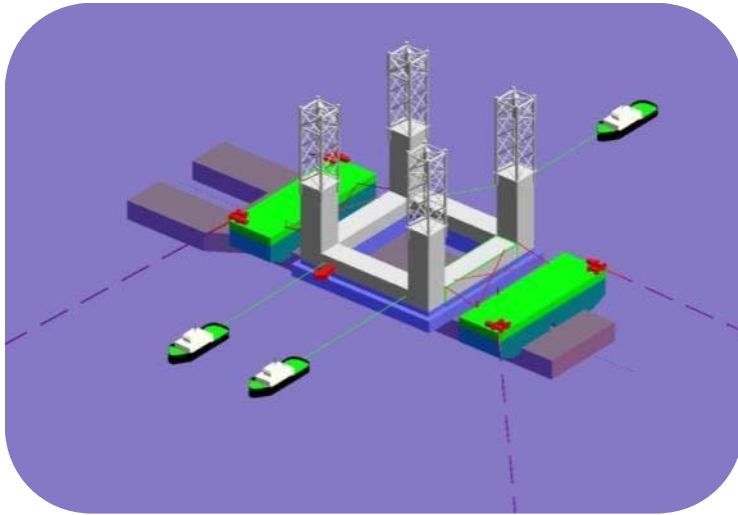
ACE 70te GBS Tether Winches

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Stage 3: GBS Float Off



After the barge mooring and releasing of the sea fastenings, the float off operation commences. The stability boxes are outfitted with ACE Tether Winches to control the GBS when it starts floating off the barge.

Both the barge and the GBS are manned during operation. The barge is then ballasted.

Once the GBS is free floating, the ACE Tether Winches are slowly lowered and the GBS slowly drawn off the barge under control of the lead tow tug.

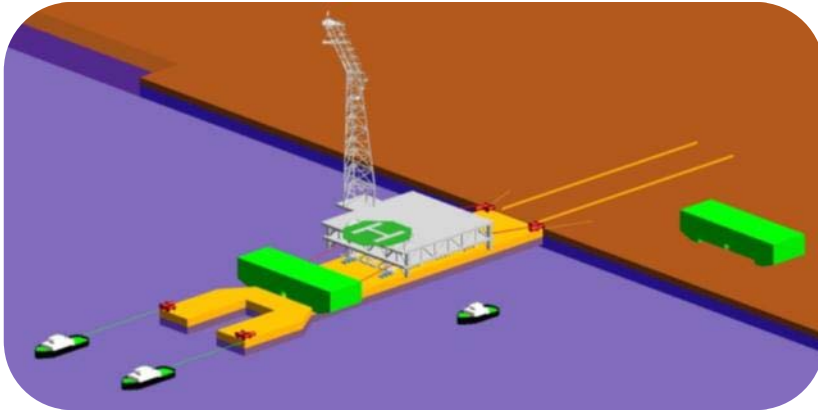
The GBS is then ballasted and lowered to the seabed.

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Stage 4: Barge Outfitting and Toppides Load-Out



The barge is moored at Kiyarly quay and the ACE Winch Layout is re-configured; the Topside is skidded onto the barge and sea-fastened. The Installation Barge is then towed out to meet the GBS.

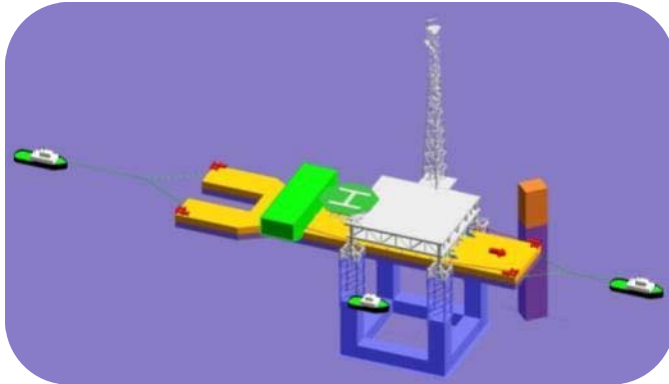


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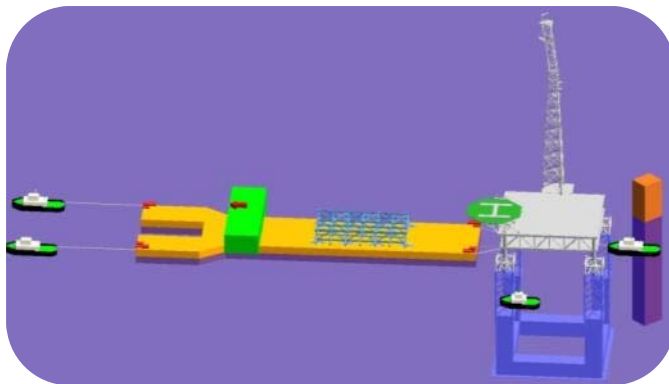
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Stage 5: Topsides and GBS Mating



The barge is floated between the GBS; ACE Winches are reconnected to the GBS for fine position control. The barge is then ballasted and topsides mated to the GBS. The barge is then towed away from the platform.



Topsides mated to GBS

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