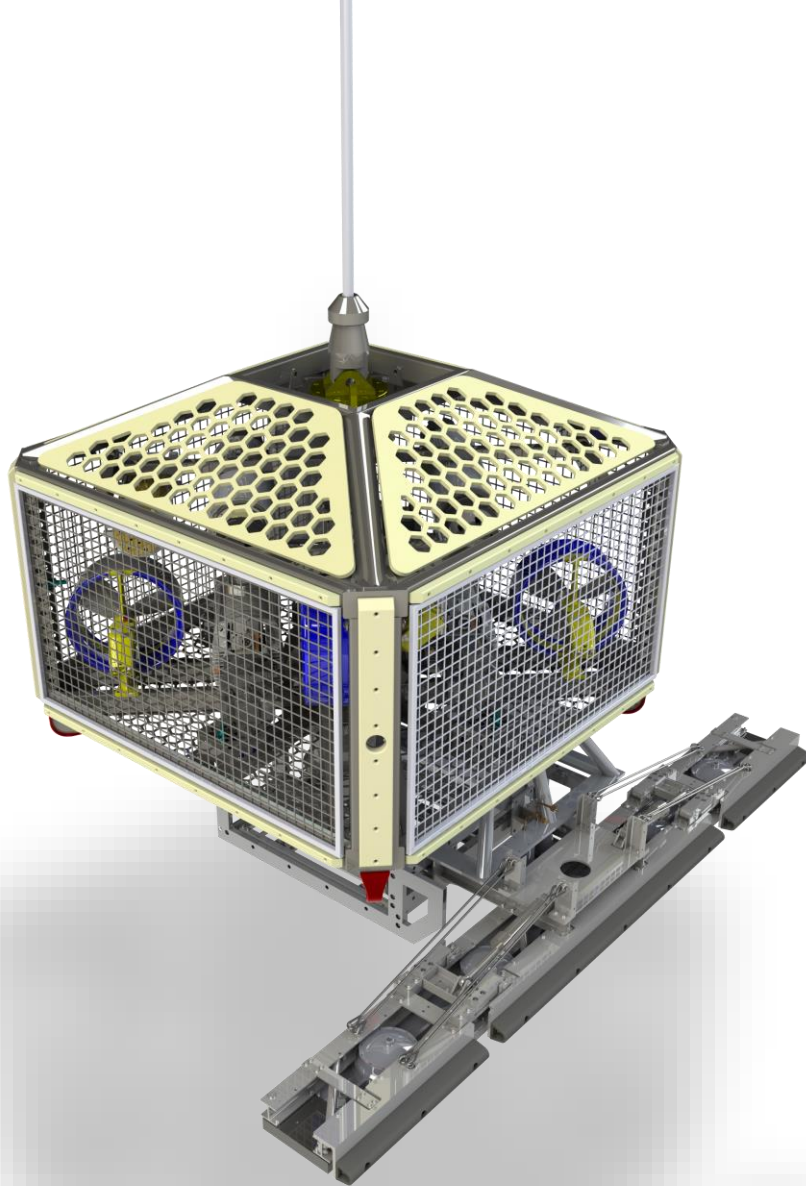




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ZODIAC TT

Multi-Role Vessel
And
ROV System

FLETCHER OFFSHORE – *TRANSFORMING DIVERLESS OPERATIONS*

Combining the DP **Multi-Role Vessel** and the **ZODIAC TT** ROV provides the offshore industry with one of the most capable and cost-effective 'one stop' diverless operations currently available on the market.



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Deployed by a 15 Tonne **Active Heave Compensated Winch** and with through-frame lift capability, the **ZODIAC TT** is capable of not only carrying out heavy lift operations using a series of hydraulic tools whilst surveying and video recording at the same time, but can be transformed into the 'state of art' Survey Skid, providing accurate above and sub-bottom imaging for tasks such as UXO and Mattress identification and Depth-of Burial survey, free-span identification, etc.

When designing the **ZODIAC TT**, Fletcher Offshore have created a versatile multi **Transformer Tool** that can carry out a wider range of tasks compared to a free-swimming work-class ROV, aligning our services to the offshore renewables and decommissioning sectors.

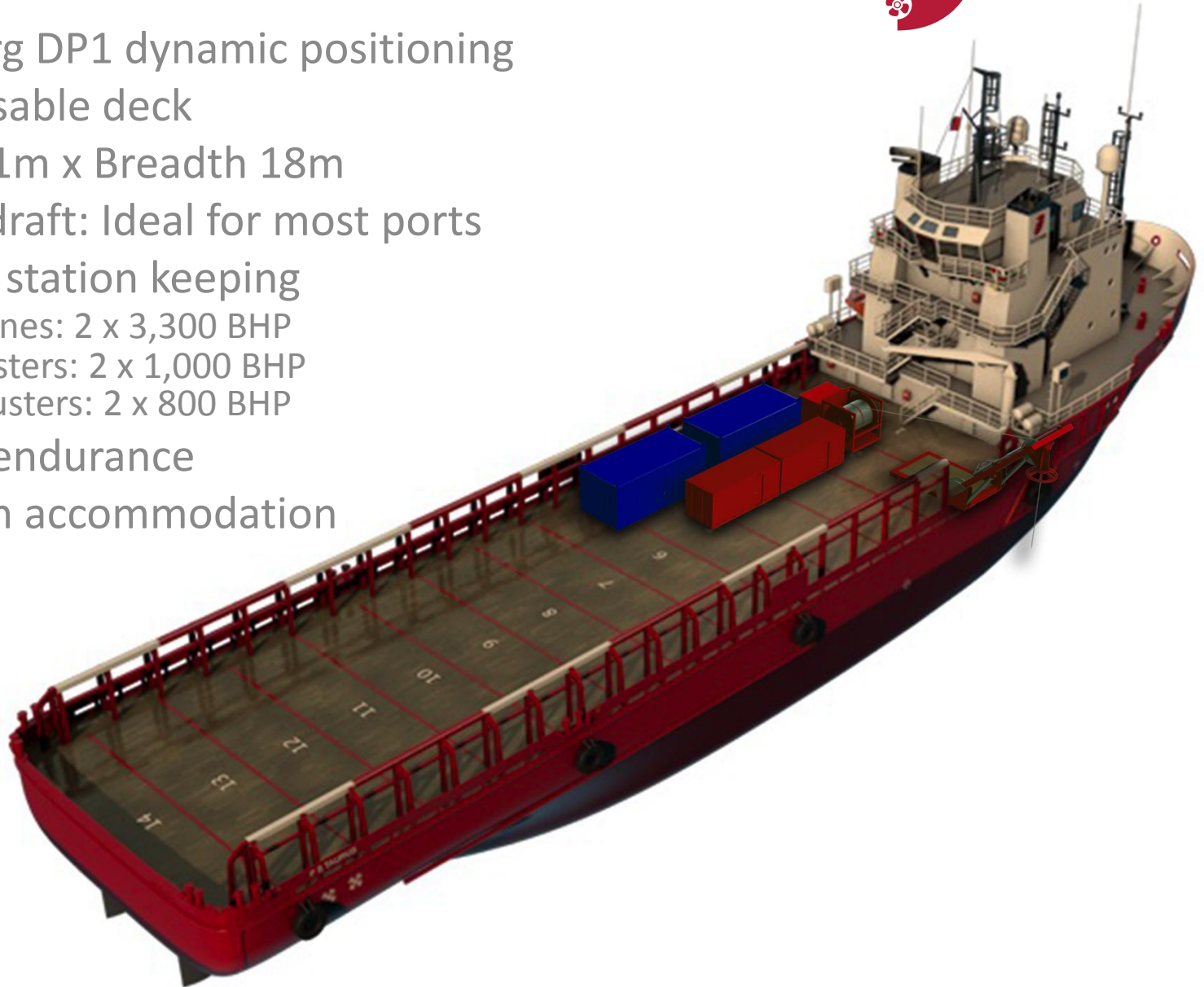
With the **One vessel, One tool, One stop** operation, Fletcher Offshore can carry-out seabed and sub-bottom surveys, seabed clearance, sub-bottom excavation, UXO identification and removal, cable/pipeline identification and cable repairs.

FS PISCES



FLETCHER

- ✓ Kongsberg DP1 dynamic positioning
- ✓ 868m² Usable deck
- ✓ Length 81m x Breadth 18m
- ✓ Shallow draft: Ideal for most ports
- ✓ Excellent station keeping
 - Main Engines: 2 x 3,300 BHP
 - Bow Thrusters: 2 x 1,000 BHP
 - Stern Thrusters: 2 x 800 BHP
- ✓ 5 weeks endurance
- ✓ 26 Person accommodation

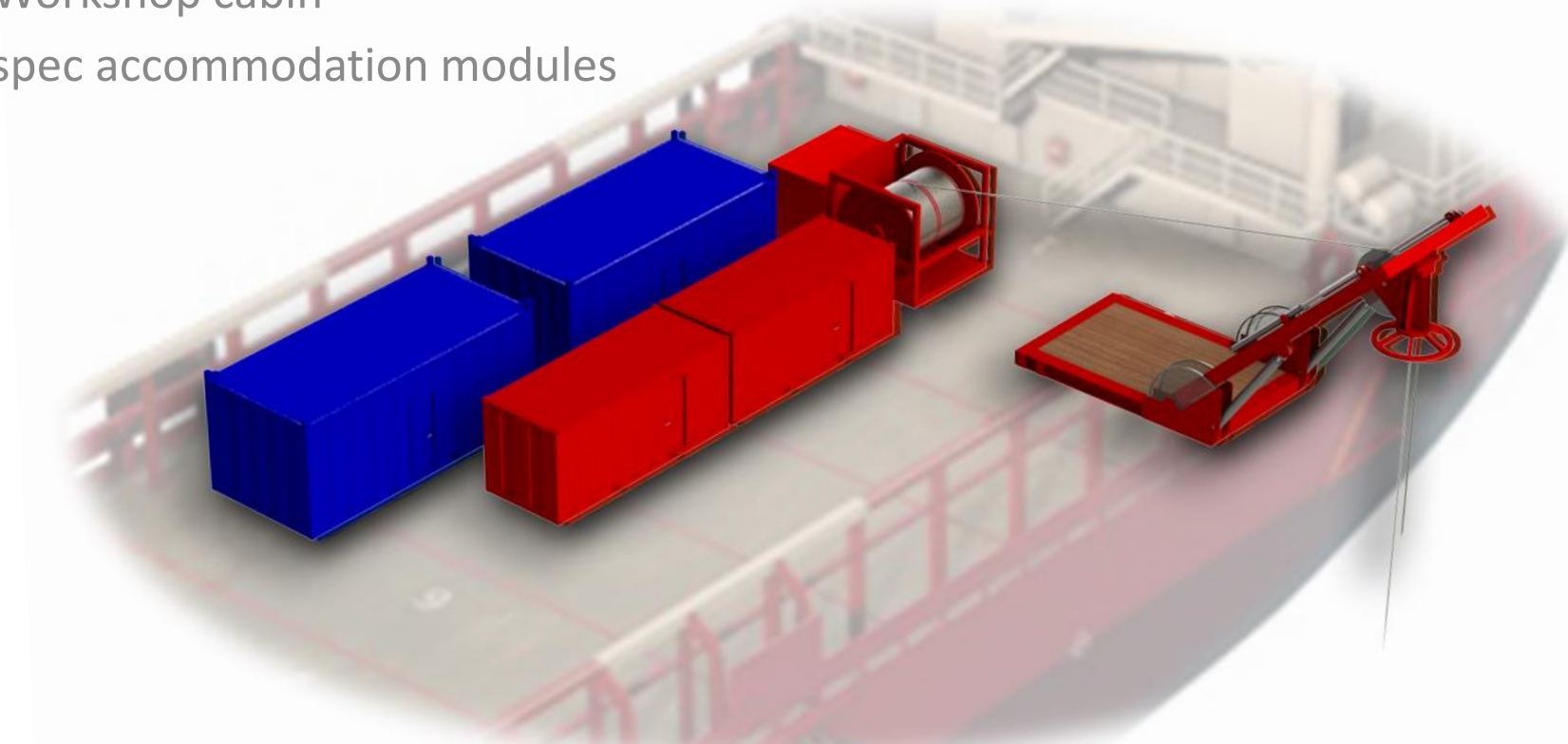


LARS and DECK EQUIPMENT



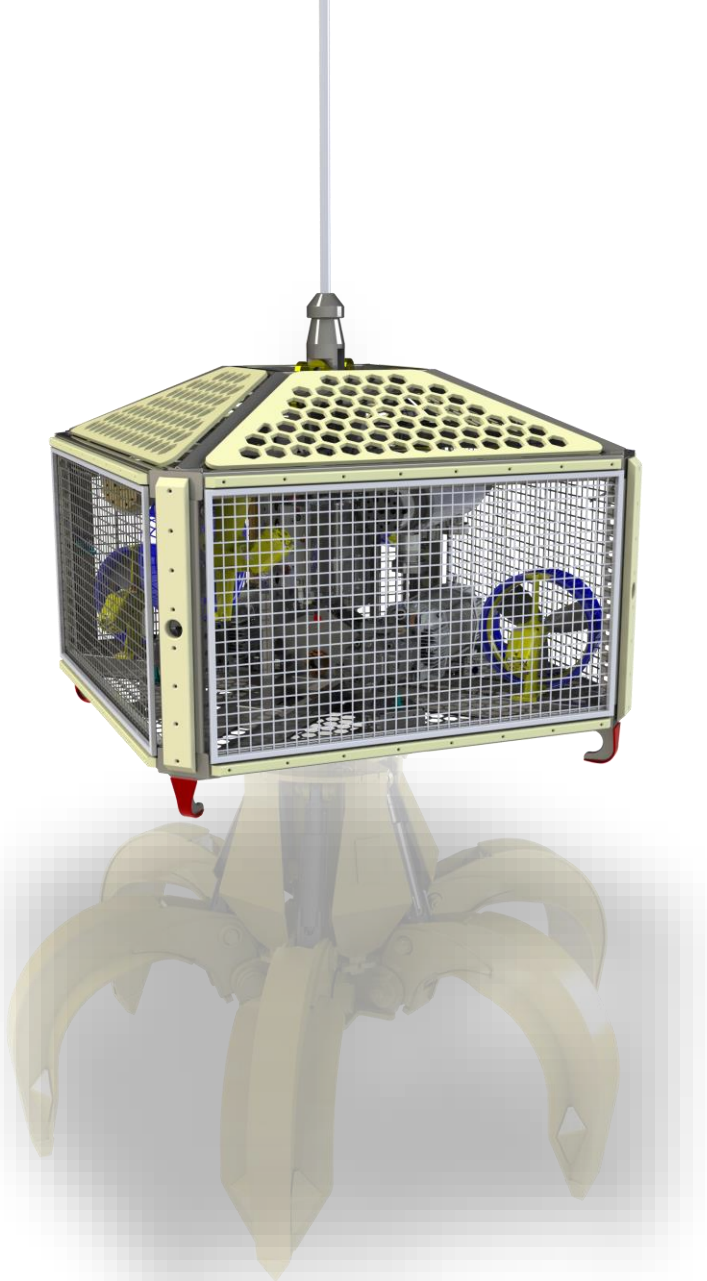
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- ✓ 15T x 4m Active heave compensated winch (AHC)
- ✓ 250 kW Winch hydraulic power unit (HPU)
- ✓ 2 x Deck cranes
- ✓ 15 Tonne extendable A-frame with powered snubber
- ✓ 20 ft Control cabin with ergonomic pilot cyber-chair
- ✓ 20 ft Workshop cabin
- ✓ High spec accommodation modules





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ZODIAC TT ROV

- ✓ Industry standard components
- ✓ 150kW / 200HP
- ✓ 1000kg Thrust
- ✓ Multiple tooling capability
- ✓ State of the art telemetry
- ✓ 6 x Camera video channels
- ✓ Multiple Ethernet channels
- ✓ Single composite umbilical
- ✓ 15 Tonnes through-frame-lift
- ✓ Multi-beam Sonar
- ✓ Auto-altitude with AHC winch



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6-TINE GRAB

- ✓ Boulder relocation/recovery
- ✓ Debris removal
- ✓ Decommissioning
- ✓ Cargo salvage
- ✓ 1.5m³ capacity



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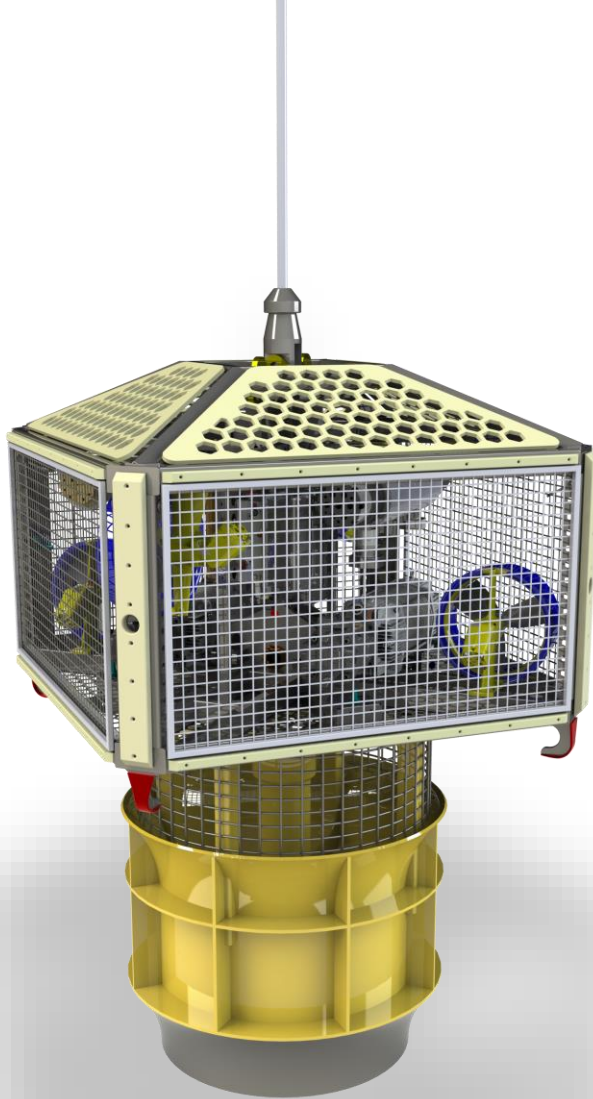


SURVEY SKID - SBI

- ✓ 5m x 5m Sub-bottom imaging
- ✓ Pre-route/obstacle survey
- ✓ Depth of burial/as-laid survey
- ✓ Out-of-straightness survey
- ✓ Freespan/scour identification
- ✓ UXO identification/qualification
- ✓ Decommissioning survey
- ✓ Video Survey
- ✓ Side scan survey
- ✓ Bathymetric survey



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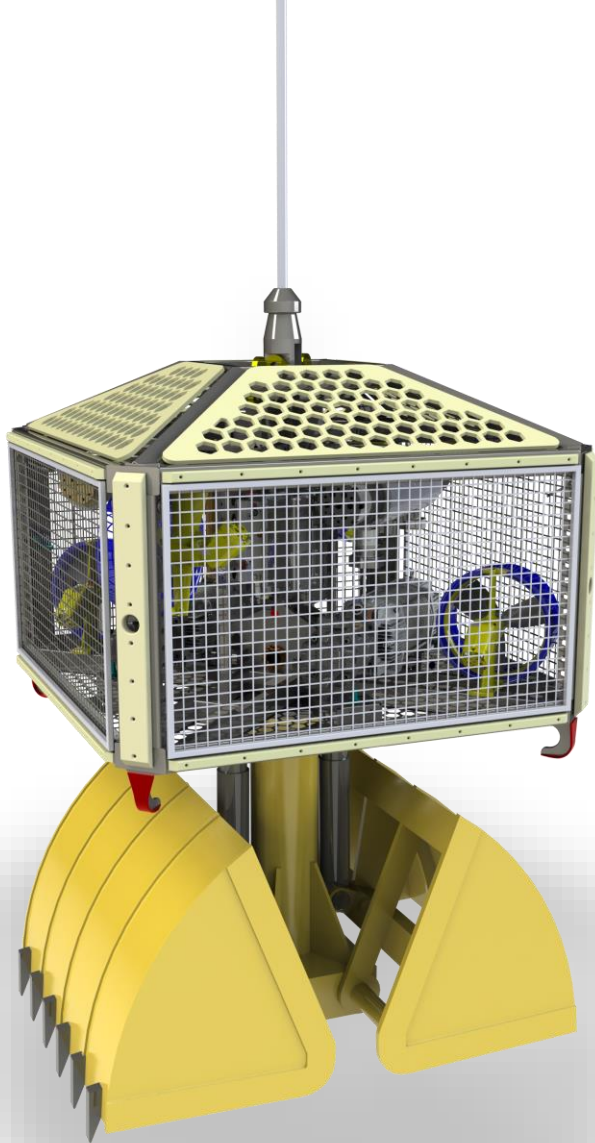


MASS FLOW EXCAVATOR

- Non-contact dredging
- Cable/pipeline backfill/burial
- Freespan correction
- UXO de-burial
- Salvage
- Sandwave clearance
- Mattress de-burial



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CLAMSHELL GRAB

- ✓ Loose item collection
- ✓ Seabed excavation
- ✓ Small boulder recovery
- ✓ Debris removal
- ✓ Decommissioning
- ✓ Cargo salvage
- ✓ 2.5m³ capacity



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OTHER TOOLS

✓ Mattress Installation Tool

- Cable/pipeline protection
- Cable/pipeline crossings
- Scour protection
- Cable/pipeline stabilisation

✓ Mattress Recovery Tool

- Decommissioning and relocation

✓ Shear Grab Tool

- Pipeline cutting/recovery
- Salvage
- Hull penetration

✓ Future Opportunities

- Bespoke tooling design and interfacing

ZODIAC TT SYSTEM SPECIFICATION

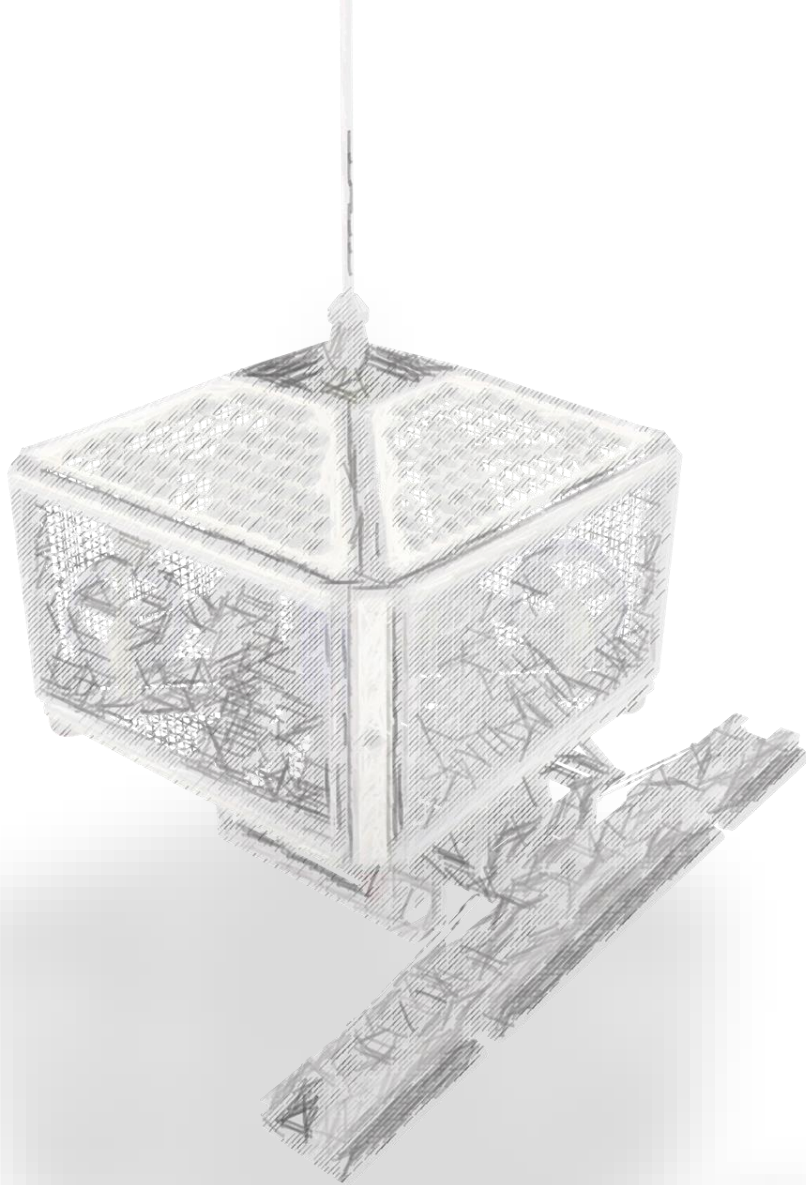


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ZODIAC TT	
Dimensions L x B x H (m)	2.1 x 2.1 x 1.6
Motor shaft power	2 x 75 kW
Available hydraulic power	135kW
Through-frame lift capacity	15 Tonnes
Vehicle depth rating	4000 metres
Thrusters	4 x 420 mm
Maximum thrust	1000 kgf
Video channels	6
Ethernet channels	3 +
Winch capacity	1500 metres
Active heave compensation	15T @ 4 metres
Optional survey pod integration	Yes



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Fletcher Offshore Ltd.
Badentoy Avenue
Portlethen
Aberdeen
AB12 4YB
01224 785785

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