

UT-1

SPECIFICATION SHEET



UT-1 ULTRA TRENCHER

The UT-1 is the world's most powerful jetting ROV with 2.1 MW of total power. It is also fitted with sophisticated drive motors, which allow precise control of pressure and flow, giving a high degree of flexibility when undertaking worksopes in varied environmental conditions and a competitive edge.

With an extensive track record and class leading performance, the UT-1 is configurable for a wide range of applications including trenching of pipelines through to the installation of submarine cables in varying seabed conditions. The UT-1's cable capture tool can provide support for simultaneous installation of submarine cables whilst its upgraded swords allow jetting performance exceeding any other jet trencher currently in the market place.

The UT-1 is ideally suited for use with the multi-role subsea construction vessel, Volantis, with a state-of-the-art heave compensated launch and recovery system, which includes a submersible latch beam, cursor and high speed constant tension winches. This offers unparalleled flexibility in severe environmental weather conditions offering high Sea State deployment.

KEY FEATURES

- 1 500 M OPERATION DEPTH
- UNIQUE SWORD DESIGN FOR ULTRA DEEP TRENCHING
- HIGH SEA STATE DEPLOYMENT
- 3 M MAXIMUM BURIAL CAPABILITY
- 1 300 MM PRODUCT DIAMETER
- SOPHISTICATED DRIVE MOTOR TO CONTROL PRESSURE AND FLOW
- CONFIGURABLE FOR A WIDE RANGE OF APPLICATIONS

GENERAL

MAX. OPERATING DEPTH	1300 m
MAX. PRODUCT DIAMETER	1300 mm
MAX. BURIAL DEPTH	3.0 m
LENGTH	9.4 m
WIDTH	7.8 m
HEIGHT	7.6 m
WEIGHT (IN AIR)	63.0 Te
SUBMERGED WEIGHT	1.5 - 2 Te (depending on skid weights)
MAX BOLLARD PULL	5 800 kg
ROV POWER	2 100 kW 2 x 300 kW, 300 V 4 x 375 kW, 3 300 V
LENGTH OF UMBILICAL FITTED	1 430 mm, OD 62.6 mm diameter

THRUSTERS AND CONSTRUCTION

VECTORED	4 x 750 mm horizontal
VERTICAL	4 X 750 mm
REAR (BALANCE)	2 x 750 mm pivoting
PITCH CAPACITY	7° approx (upto 15° for short distances)
ROLL CAPACITY	7° approx
CONSTRUCTION	High strength steel frame
BOUYANCY	Syntactic foam with macrospheres

JETTING SYSTEM

CONFIGURATION	Twin legged jet tool mounted on double scissor linkage
TRENCH DEPTH	Variable from 0-3. 0 m jet orientation. Constant from 0,75 to 3 m. Can be upgraded to have 4 m swords
WIDTH CONTROL	Subsea adjustable jet swords with internal width of 250 -1 200 mm (1 350 mm with tie bars)
WATER PUMPS	Up to 4 x 375 kW All fitted with full flow check valves to prevent reverse water flow. Water supply approx. 4 800 m ³ /hr @ 7 bar (4 pumps)
MULTI-PASS	Second or multiple passes can be made along the pipe as necessary. Pipe tracker follows partially buried product
BACKFILL	Seperate pass with backfill swords each comprising 2 x 45° jets to collapse 2 triangles of soil onto top of product

SPECIALIST TOOLING

EDUCTOR	4 x 375 kW jet dredge pumps water supply can be diverted from jetting system. Water supply 4 800m ³ /hr@7 bar (4 pumps). Water supply can be continuously varied
BACKWASH	3 m backwash swords Supplementary rear facing jet swords to aid product lowering and extend life of open trench
DEPRESSOR	Can be upgraded to have a depressor including cable detectors

SURVEILLANCE EQUIPMENT

PIPE FOLLOWING	TSS pipe tracker O/A Sonar
CAMERAS	Up to 8 Cameras 2 x Color zoom 6 x Monochrome SIT equivalent
LAMPS	12 x Sealite LSL1000 LED
PAN AND TILT	5 x Robust 24V P&T units in light-weight aluminium housing
GYRO	Octans 3000
OA SONAR	BlueView or Gemini
ALTIMETER	Kongsberg Simrad MS1007

SOIL TYPE

SOIL TYPE	Suitable for a range of soil types, include sands to clays upto 75 kPa
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The UT-1 Ultra Trenching is not limited to these parameters and can be modified by DeepOcean to complete worksopes in excess of its current configuration.

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SPECIFICATION SUBJECT TO CHANGE WITHOUT NOTICE.

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