

# ZipTrench

## ROV Trenching Tool



The Trittech ROV mounted ZipTrench trenching and excavation tool has been developed from the highly successful ZipJet and ZipJet Ultra family of products. The ZipTrench meets the requirement for cost-effective, simple to deploy and simple to use trenching equipment.

The unique design and positioning of the inlet and outlet ports eliminates the upthrust while the pump is in operation. Thus less vehicle power is used in compensating for the thrust, the vehicle is more stable in operation and more of the power can go to operating the ZipTrench.

The body of the trencher is manufactured from substantial plastic materials designed to resist erosion and general day to day offshore work. The simple design results in excellent reliability.

The trencher is designed to open up trenches and for de-burial in unconsolidated sediments. The types of materials will typically include sand, fine gravels and muds- the materials normally encountered where an existing trench has naturally backfilled.

### Robust design and simple to operate

The principle of operation is to disperse the sediments in a large mass flow of water. This has benefits over conventional dredging pumps when all that is required is to open a trench or effect de-burial without needing to be concerned where the material comes to rest. Where uniform seabed conditions occur with no obstructions, boulders or rocks, the trenching rate can be improved using flow guide templates.

#### Benefits

- Compact and rugged
- Low maintenance costs
- Easy to operate

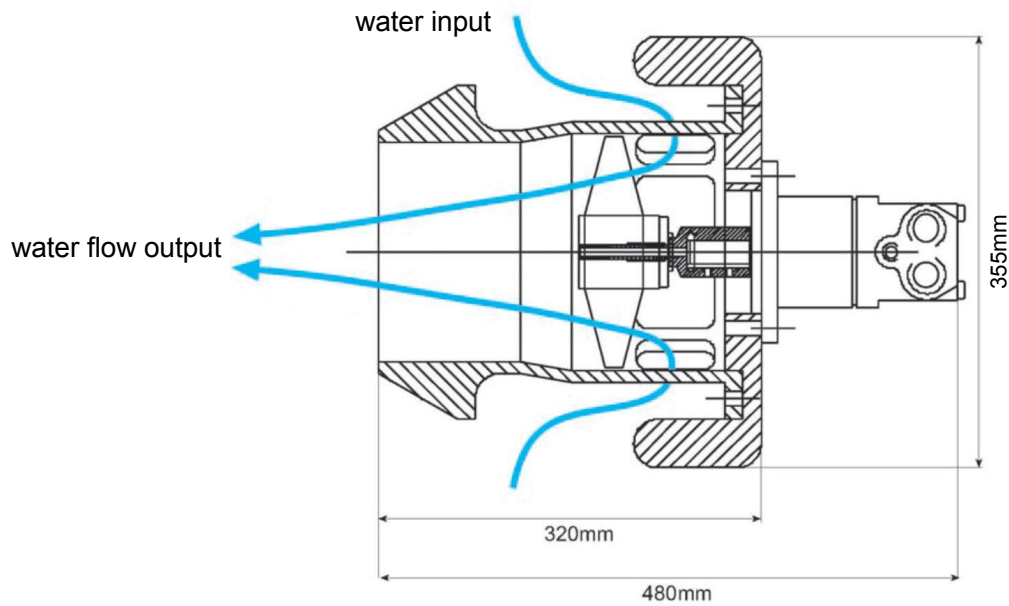
#### Features

- High flow rate
- Low operating pressure
- Negligible upthrust in operation
- Lightweight plastic construction

#### Applications

- Seabed trenching
- De-burial
- Cable trenching and maintenance
- Smaller pipe and flowline trenching
- Marine archaeology

# Specification



Not to scale, dimensions in mm.

Hydraulic Fittings	
Pressure	2200 - 4000 psi (152 - 276 bar)
Flow	10 - 15 gpm (45 - 70 litres/min)
Supply/Return connection	No 12 JIC male
Case drain connection	No 6 JIC male
Trenching Performance	
De-burial rate	up to 50 cubic metres/hour
Nominal water throughput	1000 cubic metres/hour
Effective reactive thrust	None
Physical	
Overall length	480mm
Overall diameter	335mm
Weight in air	21kg
Weight in water	12.5kg
Motor type	Volvo F11-10
Materials	Oilon Nylon, Nylatron GSM, Aluminium, Stainless Steel

Specifications subject to change according to a policy of continual development.

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