

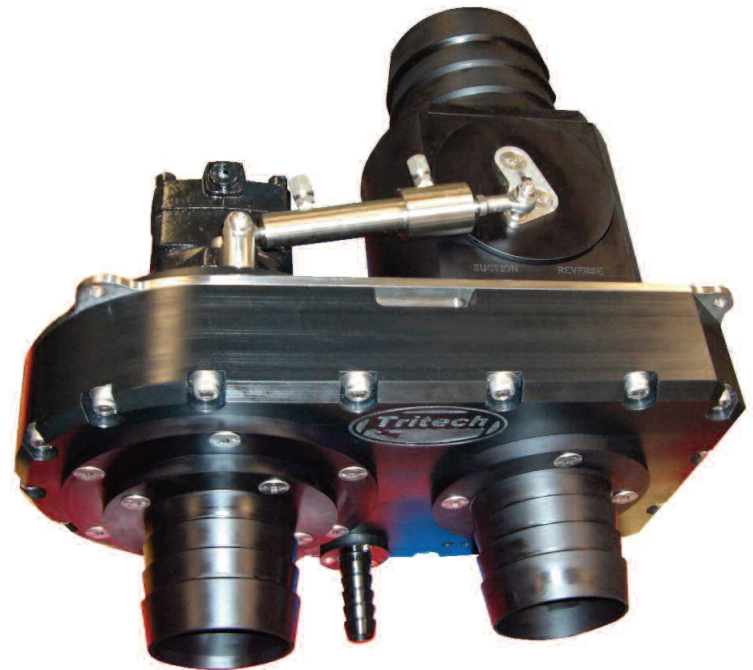
## NEW MERLIN ROV Excavation & Jetting System - 35 h.p. to 60 h.p.

### Features

- Improved performance
- Improved mounting points
- Modular pump core for ease of maintenance
- Three modes of operation – suction, jetting, combined
- Reverse flush for the suction nozzle
- Double shaft seal
- Optimization of impeller and eductor available to match performance to hydraulic input.
- Option of close fitting inlet strainer.

### Applications

- Can be fitted to most work class ROVs
- Break up and excavation of most seabed types
- Removal of drill cuttings
- Deburial of subsea templates and manifolds
- Removal of soft marine growth
- Marine archaeology
- Treasure hunting and salvage operations



The new 35 h.p. - 60 h.p. Merlin excavation pump is the must have successor to the Excalibur. Merlin incorporates many of the improved design features introduced on the smaller Super ZipJet pump which has proved so successful.

The pump is smaller, lighter and more robust with greater performance in both excavation and jetting functions. It features the same double seal arrangement as the Super ZipJet and its modular design provides great ease of maintenance.

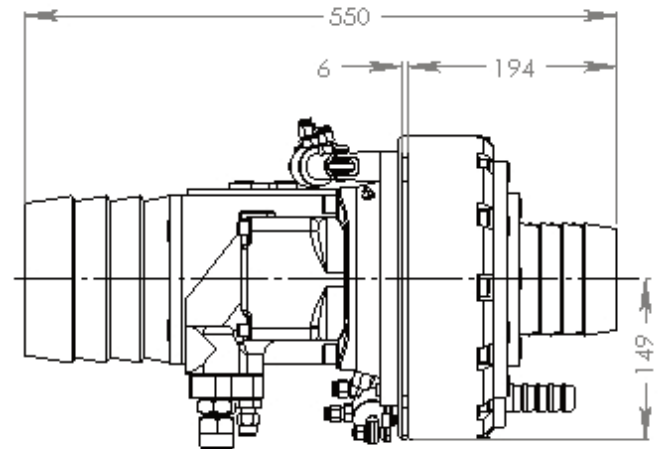
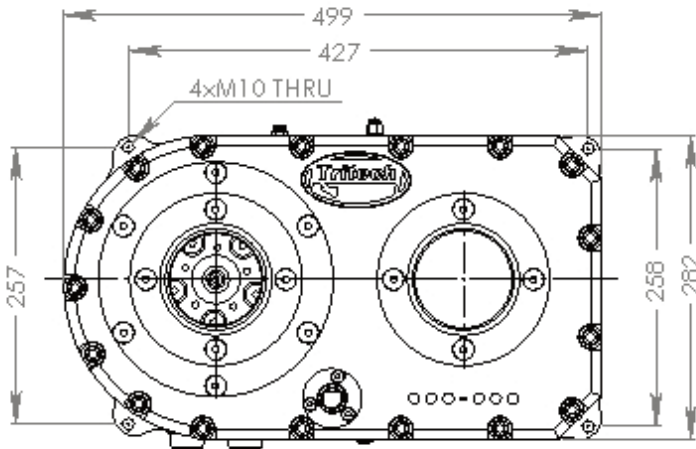
There are significant efficiency increases in both the impeller and eductor making this the tool that no WROV should be without.

Like all Tritech excavation pumps the Merlin will not block or jam because there are no moving parts in the suction flow path.

The flow reversal valve can be operated to back flush the suction nozzle should there be an obstruction. Power is derived from a stream of high velocity fluid creating a low pressure region behind the suction nozzle.

The pump may be rapidly switched from suction to jetting, or be configured to an intermediate position allowing jetting and excavation to be carried out simultaneously.

## Specifications



### Hydraulic Input

<b>Pressure</b>	170 to 250 Bar	2450 to 3600 psi
<b>Flow</b>	65 to 110 litres / min	16 USgpm

### Typical Performance Dependant on Hydraulics Input & Nozzle Sizes

<b>Jetting</b>	Up to 600 litres / min @ 8 Bar	(160 USgpm @ 115psi)
<b>Suction Flow</b>	2000 - 4000 litres / min	(500 - 1000 USgpm)
<b>Solids Removal Rate</b>	10 - 40 tonnes / hour	(350 - 1500 lb/min)

### Nozzle and Hose Dimensions

<b>Jetting Hose</b>	1" BSP Hose barb	
<b>Jet Nozzle Diameter</b>	20 mm	0.8 inches
<b>Discharge Hose Diameter</b>	150 mm	6 inches
<b>Suction Hose Diameter</b>	100 mm	4 inches

### Weights and Materials

<b>Weight in Air</b>	40 kg	90 lb
<b>Weight in Water</b>	17 kg (approx)	38 lb

<b>Materials</b>	Stainless Steel	
	Nylacast, UHMWPE	

All specifications are subject to change in line with Tritech's policy of continual product development.

Ref: EDS-HYD-006.0