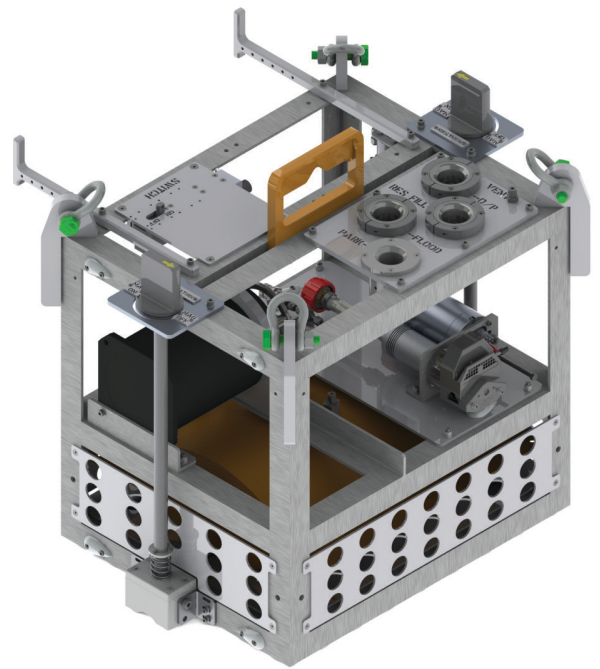


Acid Dosing Skid

Reliable system for continuous acid dosing

The Acid Dosing Skid is an independent acid pumping system designed to dose acid for a duration up to 72 hours as recommended by chemical manufacturers. It consists of an electric motor driving a peristaltic pump that supplies acid from a pillow bladder through a hot stab. A subsea battery pack provides power to the motor. The remotely operated vehicle (ROV) switches the system on or off and can then leave to do other work while the system completes periodic dosing.



FEATURES

Constant or intermittent 24-72 hour acid supply

Design includes electric motor and subsea battery pack

Modular to suit various applications

Acid Dosing Skid

Reliable and independent system for continuous acid dosing

Capabilities

- » Topside configurable dosing rate
- » Held in place by magnets on either side
- » Can carry 8 gal (30 l) of acid in its internal bladder or be connected to an external bladder
- » Pumps fluid up to 35 psi (2.4 bar) @ 3.1 oz/min (92 ml/min)
- » Refilling of bladder topside and subsea
- » Provision of receptacle for acid flooding in acid shrouds prior to dosing
- » Easy locking and unlocking through magnets
- » Subsea battery pack supports up to 72 hours of backup power

Benefits

- » Better removal or mitigation of marine growth through longer acid contact time without requiring a vessel
- » Configurable to suit various applications

Applications

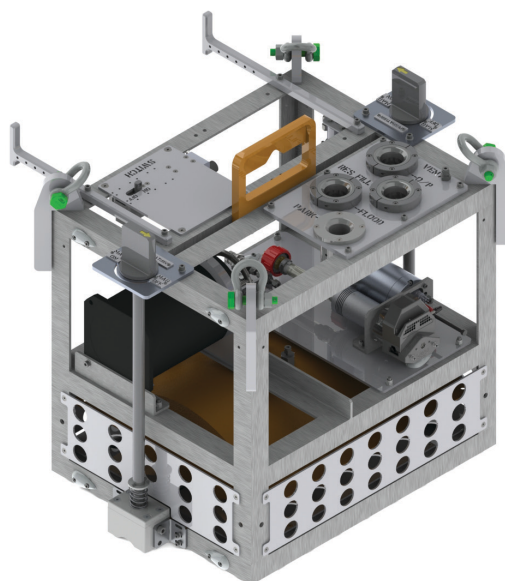
Acid Dosing Skid Specifications

Weight in air	~211 $\frac{5}{8}$ lb / 96 kg
Weight in water	~94 $\frac{3}{4}$ lb / 43 kg
Height	31 $\frac{1}{2}$ in / 800 mm
Length	31 $\frac{1}{8}$ in / 790 mm
Width	35 in / 890 mm
Materials	Frame – Al. 5083-H116 / 6082-T5 Receptacle – Nitronic 50 Fasteners – 316 SS ROV Handle 316 SS

Electrical Specification

Battery voltage	24 VDC
Battery capacity	40Ah (Deepsea) / 36Ah (CDL)

- » Constant acid supply to acid shrouds and plugs
- » Low flow chemical dosing with easily scalable expansion to multiples of 4500 litres plus flow and duration extensions



Hydraulic Specifications

Pump maximum output pressure	25 psi (1.7 bar) continuous / 40-psi (2.7-bar) intermittent
ADS maximum output pressure	35 psi (2.4 bar) intermittent (controlled via relief valve)
Pump maximum flow	4-5 liters per hour
Magnet pull force	333 lb / 151 kg each (2 off on skid)
ROV interface	API 17H single-port receptacle
Maximum working depth	9,843 ft / 3000 msw