Subsea cleaning

Water jetting is commonly used at 1000bar subsea for stripping marine growth form ships hulls, oil & gas platform legs & marine structures. Concrete weight jacket on oil pipelines can also be cut away for inspection of welds etc. without damaging the pipe.

Most work is carried out by divers using a hand held jetting gun fitted with a retro-jet which balances the diver in the water. For this reason it is common to use higher rated pumps for this application as only 50% of the pump power is utilised for cleaning/cutting.

Pumps for this application use seawater so the pumps are constructed with stainless steel pumpheads (431,316 or Duplex). For deep water work a jetting device is attached to an ROV, Hughes Pumps have even manufactured ROV mounted, marinised pumps for use 2000m subsea where it is not practical to use high pressure hoses from the surface.

Benefits of Water Jetting

- Removes any marine growth without damage to the substrate
- Can use seawater as the cleaning medium
- No pollution
- Fastest of any cleaning methods
- Versatile - can be used for a variety of cleaning/cutting tasks
- Can be used manually or on ROV’s
- Often the only suitable method for cleaning
- Pressure can be increased to 2000-2500bar for paint removal
- With a simple abrasive cutting attachment the same pump can be used to cut through thick steel structures subsea for decommissioning work
- The pump is versatile & can be used for other cleaning & cutting applications

Application Data

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<th>Typical Pumps &amp; Performances</th>
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<td>Pump</td>
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<tr>
<td>HPS2200</td>
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<td>HPS3000</td>
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Hand held subsea water jetting gun with retro-jet

ROV fitted with lance & rotary nozzle

83lpm at 1000bar HPS2200 unit in a DNV offshore container

120lpm at 1000bar HPS3000DC

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In line with the Company’s policy of research and development, alterations in design, dimensions and appearance are incorporated from time to time in order to ensure that important developments are included at the earliest opportunity. The Company, therefore, reserves the right to alter design, dimensions etc without notice.