

CaviBlaster Editorial

Charles Cleghorn Limited promote CaviDyne LLC's CaviBlaster subsea cleaning product line in the UK and Ireland. The company has also undertaken CE accreditation work, thus opening sales into Europe for working actively within the EEU area.

CaviBlaster systems use a patented super cavitating nozzle to achieve outstanding underwater cleaning performance. Water is pumped through the nozzle at precise volume and pressure, and a plume is formed. When these cavitation voids impinge on the fouled surface they collapse, releasing powerful shock waves that remove all hard and soft marine growth. However no damage is caused to the surface being cleaned,

or
to any anti-foul or foul release coatings.

Typical pressure for the nozzles is 150 bar, and once the cavitation plume has formed the combination of low density and pressure in the plume effectively removes any hazard to a diver using the system, in stark contrast to conventional high pressure blasters.

Side by side testing of CaviBlaster systems with high pressure blasters have demonstrated that for equal prime mover input power a CaviBlaster will clean a given object in a quarter of the time taken by a high pressure blaster.

CaviBlasters are available for use by both divers and ROVs. The diver guns are provided with a 40% retro jet to ease operability. ROV nozzles can be supplied with up

to 50% retro to enable use with the smallest of ROVs. Hydraulic powered units are available for mounting on work class ROVs. The latest developments include the CaviDome, using rotating nozzles to produce an area cleaning capability.