

The unique highly efficient CAVI-JET CAVITATION EQUIPMENT & TECHNOLOGY is meant for fast and safe cleaning of underwater and above-water objects:

- sea and river vessels of different classes - tankers, dry cargo, container ships, bulkers, passenger and naval vessels, dedicated ships, pleasure boats and yachts
- offshore and floating oil and gas platforms, their equipment and support frames, field mines and exploration-drill stations
- oil loading terminals, mooring facilities, transport and gas pipelines of deep bedding
- stationary waterworks - piers, moorings, jetty piles, malls, bridges and other objects of sea and river water area



CAVI-JET EQUIPMENT using outboard sea or river water, supplied under an insignificant pressure of about 150 bars (ordinary pump-units) creates a rapid cavitation jet - a jet with microscopical steam-gas blebs, which explode while touching the treated surface. The destruction of the marine growth, rust and rejection of the purging from the working area results from the directional micro-blebs exploding of the cavitation jet of water - thousands of microsecond micro-explosions at the point of cleaning.

CAVI-JET CLEANING SYSTEMS AND DEVICES, functioning of which is based on the hydrodynamic cavitation effect, are designed specially for qualitative and high speed destruction and removing of marine growth of any composition and thickness (seaweed, shells, barnacles, corals), rust and peeled off paint without damaging hull and protection coating. By the operating mode of the cavitation jet selection the required cleaning level for the surface of any materials, forms and dimensions is reached.

Highly efficient and safe **CAVI-JET EQUIPMENT** is realized in the compact and ergonomic devices, as:



- ✓ hand-held **MULTI-PURPOSE CAVI-JET PISTOLS** of different types for the cleaning of the curvilinear and hard-to-get surfaces with the cleaning rate up to 250-350 m²/hour [equipped with jet nozzle of recoil compensation and cleaning modes control]
- ✓ universal **ROTARY CAVI-JET TURBONOZZLES** for a significant enlargement of the cleaning spot and increasing in works' efficiency at hard-to-get places without bigger requirements to the pump-unit [equipped with the regulated sucking degree to the cleaning surface system and safety limiter]
- ✓ semi-automatic **SELF-PROPELLED CAVI-JET HEADS** of various types and diameters for the flat surfaces cleaning with different thickness of marine growth and cleaning rate up to 900 m²/hour [equipped with regulable cavi-jet automotive mover, hydrodynamic suction system for objects' cleaning and removal of the purging from the working area, speed adjustment and cleaning modes control]
- ✓ special **CAVI-JET HYDROSANDBLASTING** devices for above-water surfaces cleaning, as well as underwater objects' surfaces with extremely strong and thick fouling [equipped with the system of intensive mixture and directed supply of cavi-jet pulp]
- ✓ unique **POLISHING CAVI-JET DEVICES** for simultaneous cleaning, grinding and polishing of curvilinear and flat surfaces of underwater objects [equipped with the angle adjustment system and degree of sucking to the cleaning surface systems]

The innovation of **CAVI-JET SYSTEMS'** advantages allows to achieve unsurpassed results in speed and quality of cleaning:

- highly efficient cleaning of large flat surfaces of different destination, material and form
- highly efficient and qualitative cleaning of vessels' hulls out of docks
- possibility of rapid cleaning of curvilinear and hard-to-get surfaces - propellers, rudders, kill stabilizers, thrusters, stiffening ribs, kingstons, water collectors, pipelines, support frames of hydrotechnical structures, bridges, oil & gas platforms and rigs
- fast and qualitative cleaning of hard fouling and thick marine growth
- absolute ecological purity of working processes and cleaning mechanisms
- absence of traumatism and safety for divers
- safety for paint, antifouling and anticorrosion coatings of being cleaned surfaces
- absence of need for periodical replacement of tools and consumables during operation
- uninterrupted round-a-clock functioning and possibility of night-time running
- universality and interchangeability of major elements and blocks of the equipment
- simplicity of exploitation and absence of divers' special training requirements
- compact sizes, small weight and ergonomic design of cleaning devices and tools
- mobility and moving simplicity of the equipment sets
- highly stable characteristics for cleaning surfaces of any material type - steel, bronze, aluminum, plastic, wood, concrete, glass and others
- regulative speed and modes of cleaning, including cleaning to bare metal
- high exploitation reliability during a long period of utilization
- possibility of standard water supplying equipment and pumps of any manufacturers

The newest **CAVI-JET** cavitation technology and based on it the unique **CAVI-JET EQUIPMENT** for underwater and above-water cleaning, being different in principle from present solutions allow to significantly enhance productivity and quality of the traditional services presented on the nowadays market reducing the expenses on its providing and increasing the economy of the cleaning services.



length – 300 mm
weight – 1 kg

ONE CAVITATOR 300 SHORT CAVI-JET PISTOL

Equipped with reactive nozzle of kick compensation and regulation of cleaning modes

Application: qualitative removal of all kinds of fouling and dirties of any type and composition on cylindrical and cylindrical surfaces, in hard-to-get places and on surfaces with small diameter.

Productivity: Significant fouling with shells and barnacles – **80 sq. m/hour**; Slight fouling with algae and mollusks – **100 sq. m/hour**



length – 400 mm
weight – 1,3 kg

THREE CAVITATOR 400 MEDIUM CAVI-JET PISTOL

Equipped with hinged joint and reactive regulated nozzle of kick compensation

Application: intensive cleaning of surfaces with important or small curvature, cylindrical constructions of different diameters and hard-to-get hollows.

Productivity: Significant fouling with shells and barnacles – **100 sq. m/hour**; Slight fouling with algae and mollusks – **250 sq. m/hour**



length – 550 mm
weight – 1,8 kg

THREE CAVITATOR 500 TRIGGER CAVI-JET PISTOL

Equipped with trigger mechanism, reactive compensator and regulation of cleaning degree

Application: quick and safe removal of marine growth and contamination of any type and composition on curvilinear surfaces of any form, as well as in hard-to-get places and cavities.

Productivity: Significant fouling with barnacles and shells – **100 sq. m/hour**; Slight fouling with algae and corals – **200 sq. m/hour**



length – 400 mm
weight – 2,4 kg

HYDROSANDBLASTING 600 CAVI-JET PISTOL

Equipped with the system of directed lead motion and mixing of cavi-jet pulp and anticorrosive reagent

Application: above-water surfaces desiring to abate metal (if necessary), complete removing of paint and rust, as well as cleaning of underwater objects' surfaces with the extremely hard and thick fouling.

Productivity: Paint, rust and dirt – **70 sq. m/hour**; Corals, barnacles and shells – **150 sq. m/hour**



diameter – 150 mm
weight – 1,2 kg

UNIVERSAL 150 TURBO CAVI-JET ORIFICE

Equipped with the system of regulated sucking level to the cleaning surface and safety limiter

Fits to all types of Cavi-Jet Pistols

Application: important enlargement of cleaning spot and increasing in productivity of jobs on curvilinear surfaces and hard-to-get places without high requirements to the pump unit.

Productivity: Significant fouling with mollusks and shells – **150 sq. m/hour**; Slight fouling with algae and corals – **250 sq. m/hour**



length – 100 mm
weight – 0,8 kg

SPECIAL HYDROSANDBLASTING 100 CAVI-JET NOSE

Equipped with the system of intensive mixing and directed supply of cavi-jet pulp

Fits to all types of Cavi-Jet Pistols

Application: complete removing of dirties, rust and paint on the above-water objects' surfaces, as well as cleaning of underwater objects' with the extremely hard and thick fouling.

Productivity: Paint and rust – **80 sq. m/hour**; Corals, shells and mollusks – **100 sq. m/hour**



diameter – 70/80 mm
weight – 0,4/0,5 kg

MAGNETIC 70/80 SIMPLE/DETACHABLE CAVI-JET SUCKER

Can be equipped with the handy detaching lever

Fits to all kinds of diving works

Application: pointed diver's fixation on the treated surface while executing cleaning or other underwater jobs.



length – 250/500 mm
weight – 0,2/0,3 kg

MULTI-CAVITATOR 250/500 UNIVERSAL CAVI-JET EXTENDER

Equipped with the handy quick-detachable connector with the possibility of nose's choice

Fits to all types of Cavi-Jet Pistols

Application: extending working lengths of CAVI-JET PISTOLS while cleaning hard-to-get places and hidden hollows with the installation up to three cavitators for increasing work's efficiency.



length – 250 mm, weight – 1,4 kg

TWO CAVITATOR 250 POLISH&GRIND CLEANING CAVI-JET HEAD

Equipped with the angle adjustment system and degree of sucking to the cleaning surface systems

Application: simultaneous productive grinding, grinding and polishing of cylindrical and flat surfaces of underwater objects and their parts.

Productivity: Fouling with shells and mollusks – **150 sq. m/hour**; Slight fouling with algae and corals – **250 sq. m/hour**



length – 400 mm, weight – 4,4 kg

THREE-CAVITATOR 400 MEDIUM CAVI-JET HEAD

Equipped with regulated hydro-reactive mover of self-propelled forward motions, speed adjustment and cleaning modes control, system of hydrodynamic suction and removal of the purging from the working area

Application: highly efficient removal of fouling and contamination of different types on the flat or slightly curvilinear surfaces of any materials.

Productivity: Fouling with shells and mollusks – **300 sq. m/hour**; Slight fouling with algae and corals – **450 sq. m/hour**



length – 850 mm, weight – 9,8 kg

THREE-CAVITATOR 850 TWIN CAVI-JET MINI SYSTEM

Equipped with regulated hydro-reactive automotive mover, speed adjustment and cleaning modes control, system of suction and removal of the purging

Application: cleaning of flat surfaces of any materials with different degree of fouling of heightened productivity.

Productivity: Fouling with shells and mollusks – **500 sq. m/hour**; Slight fouling with algae and corals – **850 sq. m/hour**



SPECIAL GOAL ORIENTED CAVI-JET SETS

- for cleaning of sea and river vessels of different classes – tankers, dry cargo, container ships, bulkers, passenger and naval vessels, dedicated ships, pleasure boats and yachts
- for cleaning of offshore and floating oil & gas platforms, their equipment and support frames, field mines, exploration-drill stations and other waterworks
- for cleaning of oil loading terminals, mooring facilities, transport and gas pipelines of deep bedding
- for cleaning of stationary waterworks – piers, moorings, jetty piles, molls, bridges and other objects of sea and river water area

Attention! Cleaning efficiency is increased in 2-4 times in case of parallel connection of several CAVI-JET DEVICES to one pump unit.

* Indicated rates are estimated and may vary depending on materials and forms of cleaning objects, kinds of fouling, conditions of works executing, personnel qualification, as well as characteristics of used pump units. The manufacturer reserves the right to change technical characteristics without prior notification.