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, masts, 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 limit)

✓ 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, kingposts, 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-of-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.
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 detritus of any type and composition on curvilinear and cylindrical surfaces, in hard-to-get places and on surfaces with small diameter.
Productivity: Significant fouling with shells and barnacles - 50 sq. m/hour; Light fouling with algae and mollusks - 100 sq. m/hour.

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; Light fouling with algae and mollusks - 200 sq. m/hour.

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; Light fouling with algae and barnacles - 200 sq. m/hour.

HYDROSANDBLASTING 600
CAVI-JET PISTOL
Equipped with the system of directed feed motion and mixing of cavi-jet pulp and anti-corrosive reagent
Application: above-water surfaces cleaning to share merits (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.

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 higher requirements to the pump unit.
Productivity: Significant fouling with mollusks and shells - 150 sq. m/hour; Light fouling with algae and barnacles - 250 sq. m/hour.

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 dirt, rust and paint on the above-water object surfaces, as well as cleaning of underwater objects with the extremely hard and thick fouling.
Productivity: Paint and rust - 50 sq. m/hour; Corals, shells and mollusks - 100 sq. m/hour.

MAGNETIC 70/80
SIMPLE/DETACHABLE CAVI-JET SUCKER
Can be equipped with the handy detachable lever
Fits to all kinds of diving works.
Application: painted down's fixation on the treated surface while executing cleaning or other underwater jobs.

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 barrels of CAVI-JET PISTOLS while cleaning hard-to-get places and hidden hollows with the installation up to three cartridges for increasing works' efficiency.

TWO CAVITATOR 250
POLISHGRIND CLEANING CAVI-JET HEAD
Equipped with the angle adjustment system and degree of suction to the cleaning surface system
Application: simultaneous productive cleaning, grinding and polishing of curvilinear and flat surfaces of underwater objects and their parts.
Productivity: Fouling with shells and mollusks - 150 sq. m/hour; Light fouling with algae and barnacles - 250 sq. m/hour.

THREE-CAVITATOR 400
MEDIUM CAVI-JET HEAD
Equipped with regulated hydro-reactive moving 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; Light fouling with algae and barnacles - 450 sq. m/hour.

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 at heightened productivity.
Productivity: Fouling with shells and mollusks - 500 sq. m/hour; Light fouling with algae and barnacles - 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 deepbedding
- for cleaning of stationary waterways - piers, moorings, jetty piles, masts, bridges and other objects of sea and river water area

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

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