

KV 2S

SCIENTIFIC DETONATION CHAMBER

KV 2S is a universal detonation chamber applicable for a wide portfolio of operations ranging from scientific laboratory experiments to heavy-duty industrial processes.

KV 2S is an automated machinery designed to withstand repeated detonations of up to 2 kg TNT as a part of a manufacturing process, quality control tests or scientific research programs.



ADVANTAGES & FEATURES

- ▶ Compared to the simpler manually-operated laboratory detonation chambers, this industrial-type detonation chamber is equipped with hydraulic-driven moving parts and a control panel for fully automatic remote operation.
- ▶ The chamber is opened and closed by a back-folding cupola exposing a large working space, equipped with four optical windows and multiple measuring ports for scientific instrumentation, along with additional anti-fragment protection.
- ▶ During dozens of years in operation in very demanding conditions, **KV 2S** detonation chambers have demonstrated long service life (10,000s detonations), high reliability, safety and negligible operating costs.



Control panel of the detonation chamber

APPLICATIONS

- ▶ Scientific research, development and testing of explosives and ordnance
- ▶ Scientific investigations of confined explosion effects
- ▶ Quality control in the manufacture of explosive materials
- ▶ Industrial explosive forming of metals (hardening, pressing, cutting, welding)
- ▶ Forensic investigation of improvised explosive devices (IED)
- ▶ Safe disposal of explosives, initiators and small ammunition elements
- ▶ Safe execution of large-scale sensitivity or stability tests
- ▶ Safe storage of unstable explosive substances in explosives laboratories, etc.

Product name	KV 2S
Capacity [g TNT]	2 000
Working table dimensions [mm]	Ø 700
Weight [ton]	11
Total dimensions L × W × H [m]	2.9 × 1.8 × 2.8



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POLLUTION ABATEMENT SYSTEM (PAS)

Autonomous system for treating off-gases from experiments in detonation chambers and ballistic vessels before their releasing to the outside air, for the environmental protection and occupational hygiene.



Four-step gas filtration process involving separation of coarse particles, filtration of fine particles, sorption of sub-micron particles and acid gases, adsorption of semi-volatile organic compounds and/or mercury vapors.

PAS design was proven in industrial operations at multiple installations since 2003 for serial disposal of ammunition elements with heavy metal content. Filtration effectiveness >99.9 % for heavy metals, >95 % for acid gases. Containerized version available, built-in a 20' HC shipping container.



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