

LABORATORY DETONATION CHAMBERS

Laboratory detonation chambers allow users to safely carry out detonation experiments of up to 250 g TNT equivalent directly inside explosives laboratories without any excessive noise loading.

They can be used for scientific and forensic investigations, research, development, testing or quality control in the area of energetic materials, confined explosions and related applications such as the explosive forming of metals or the safe and environmentally friendly disposal of explosive wastes. The service life of the detonation chambers can reach 10,000s shots.



LDC 100

ADVANTAGES & FEATURES

- ▶ Multiple ports for the installation of pressure or temperature sensors for the characterization of confined explosions
- ▶ Optical cable ports for investigation of the detonation processes by the **VOD 815**, the **OPTIMEX 64** or the **Velorex PDV**
- ▶ Safe execution of brisance, cook-off, large-scale ESD and large-scale stability tests
- ▶ Gas-tight valves enable the creation of different gas atmospheres in the chambers and the sampling of the post-explosion gases
- ▶ Several ventilation methods applicable (air compressor, air blower, fans or gas cylinders) according to the test laboratory infrastructure
- ▶ Safety interlocks prevent the premature electric firing of the explosive charges

Product name	LDC 100	KV 250M4	KV 250M5
Capacity [g TNT]	100	250	250
Working table dimensions [mm]	-	Ø 300	Ø 300
Weight [kg]	300	2 200	2 200
Total dimensions L×W×H [m]	0.5 × 0.5 × 0.6	1.4 × 1.4 × 1.8	1.4 × 1.4 × 1.8



KV 250M4

MODELS

- ▶ **LDC 100** is a stainless steel vessel closed by a screw-mounted lid (the explosive charge hangs in the chamber lid) with a maximum capacity of 100 g TNT eq. Due to its weight (approx. 300 kg), the vessel can be embedded in a special working stand with an electric crane manipulator, rotating fixture for easier cleaning and tool shelves for accessories.
- ▶ **KV 250M4** is a heavy-duty steel detonation chamber with a maximum capacity of 250 g TNT eq., equipped with an easily accessible working table for positioning the explosive charge, a manually operated bayonet lock for the quick closing and opening of the lid, input and output valves, numerous ports for optical or electrical measuring cables, as well as two optical windows for the installation of other sensors or high-speed cameras.
- ▶ **KV 250M5** has the same design and parameters as **KV 250M4** but with four optical windows instead of two.



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