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PRESSURE
90,000 PSI
(6205 BAR)



CLOSED COMBUSTION CHAMBER

DIT's Closed Combustion Chamber, also known as Closed Bomb and Powder Bomb, is used for determining the quickness and force of a test propellant sample, by a relative or an absolute procedure. It is used primarily for gun propellants. A variety of sizes, 75cc thru 2,400cc are available with optional monitoring instrumentation and controls.

The system is designed for remote operation and provides all necessary components for testing except the N₂ source and the heating/cooling control source. These are available upon request. The system is modeled with the intent of MIL-STD-286 in mind. The operator would load the sample in a testing bay, and from a remote room, actuate the console for firing and data acquisition. Due to the high pressures generated, regularly scheduled maintenance on-site by the operators will be necessary. The vessel is a thick walled cylindrical chamber with removable closures. It is jacketed for temperature control, and has electrical feedthru's for ignition of the sample.

200CC Closed Bomb
Horizontal Position



200CC Closed Bomb
Vertical Position



Data Acquisition
Console

