

MUNITIONS DESTRUCTION

Demil 100



Performance Features

The Demil 100 is a small, mobile Detonation Chamber (DC) designed for destruction of small batches of energetic/explosive materials. It is fully mobile with wheels on a flat surface floor.

The Demil 100 has a manual operated tight lid with safety lock on the chamber for personal safety. It also has a basket inside the inner chamber for easy removal of solid scrap after burning cycle.

Principles of the Demil 100

The Demil 100 is a manually operated electrically heated Destruction Chamber (DC). The destruction is achieved by heating the objects above its initiation temperature which results in burn, deflagration or detonation of the energetic material.

An operation temperature above the initiating temperature of the destruction object is set and controlled. The reaction will take place at a typical temperature around 300°C depending of type of explosives. Maximum operating temperature is 400°C. At any time the current temperature, heating time and pressure can be monitored on the local display.

A manually operated locking arrangement, consisting of a top lid and a seal, provides gas containment.

The DC is fitted on a trolley and can be moved on mainly flat surfaces. The walls and the hood of the trolley are well insulated for energy effectiveness and protection.

The object to be destroyed is manually loaded into the cold chamber. The lid is closed/locked and the insulation hood is placed. Once the preset temperature is reached a thermostat maintains the temperature of the chamber at the preset value until the operator switches off the power and the gases are evacuated. After a cooling down time of roughly 10 hours the scrap remaining in the chamber can be removed.

Optionally, the lid can be fitted with a feeding tower, which enables hot feeding of small items, i.e. without cooling down between the feedings.

Benefits

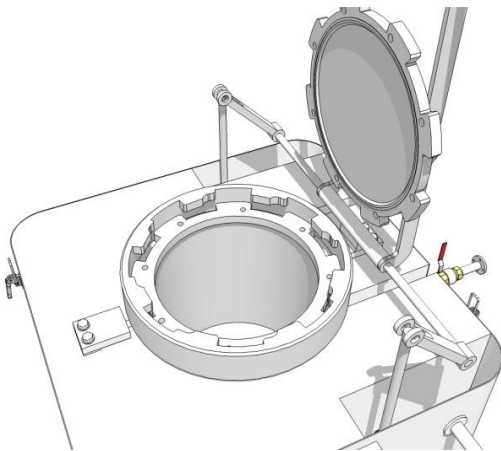
COMPACT – Small and movable system.

RELIABLE – Dynasafe technology has been proven at a number of sites world-wide. References can be provided upon request.

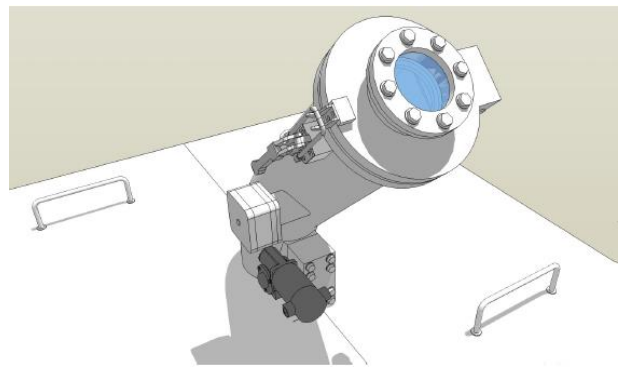
Technical Data

Characteristic	Value	Condition/Comment
Capacity		
Feed size max (mm)	Ø300 x H 300	Feeding via the lid in cold condition
	W70 x H60 x L200	Feeding via the optional feed tower
Max detonable, TNTeq (g)	50	
Process		
Max Operation temperature (°C)	400	Design temp 450°C, Design pressure 20 bar.
Heating up time, approx. (h)	3	
Typical clean burning time (h)	1	Depending on Destruction Objects
Cooling down time, approx. (h)	10	
Dimensions and weight		
Dimensions L x W x H approx. (m)	1,44 x 1 x 1,2	
Weight, approx. (kg)	380	
Electrical system		
Electrical connection	400V; 50Hz;16A	European standard connection
Max. power consumption	3kW	During heating up
Installed power	3.2kW	

Note: All technical data is indicative only.



Demil 100 with open lid



Feed tower system (Optional)

Scope of Delivery

- Manual loading (feeding in cold condition)
- Scrap basket
- FCA delivery

Options

- Feed tower for feeding of small items in hot condition.
- Off gas treatment system
- Installation & commissioning
- Training
- Online support
- Surveillance – CCTV cameras

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