

# AUTOMATIC BARREL CLEANING SYSTEM



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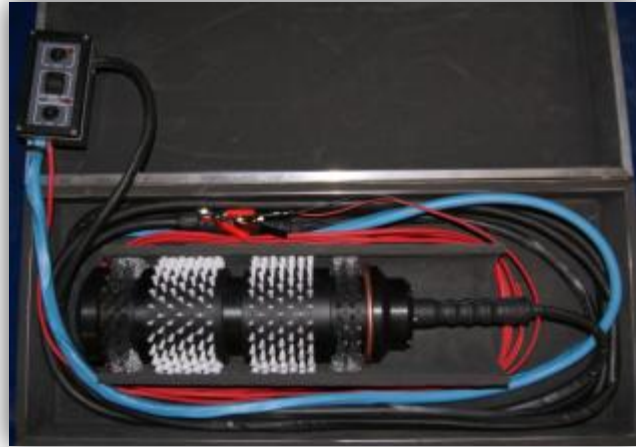
## Introduction

The Barrel Cleaning System is designed and developed to meet the requirements of the weapon manufacturer, gun operator, maintenance and technical personnel.

The System is light and small with simplified operation controls to be handled by any operator and stored on any gun as part of the gun equipment, yet it is big and complex enough to clean any barrel.

The Barrel Cleaning Systems can be Supplied in a range from 76 to 155 mm.

Fast, effective and one man operation are the major advantages of this superior Barrel Cleaning System.



The System is designed and developed to meet five requirements:



*Cleaning System in operation*

- Removal of firing deposits
- Applications of Cleaning Liquids
- Removal of inhibiting oil
- Application of preservation oil
- One man operation



## System Operation

This electrical System is available in either 12v or 24v. The connection for the electrical cable can be custom made to interface with the connection on the gun or to connect to the battery pole.



A transformer can be supplied to allow 115v or 220v electrical operation.

Vibration impulses cause the system to move up and down the barrel. A double pass is done under 90 seconds, with an average cleaning time of 12 minutes.

## **Cleaning**

Fluids are injected into the barrel behind the cleaning brush drenching the brush and barrel, allowing the cleaning fluid to penetrate the grime on the metal surface, undercutting firing residues, carbon deposits, rust, dirt and other contaminants.

After the cleaning fluid has been injected into the barrel, the weapon oil will be applied that not only offers a superb protection against rust and corrosion, but in fact prevents the tight adhesion of subsequent firing residues. These fluids will be injected in different time zones depending on the type of cleaning program.



***Gun Barrel 066 after manual cleaning method was applied (24 Passes)***



***Gun Barrel 066 after Automatic Cleaning System was applied (12 Passes)***

Three different programmes was identified during Meticulous research in barrel cleaning.

These programmes include NORMAL, INTENSE and DEMOB. NORMAL mode takes up to 12 minutes and is utilized for daily cleaning.

INTENSE mode takes up to 23 minutes and generally utilized after a large number of rounds fired in one day. DEMOB mode takes up to 40 minutes and is utilized during demobilization.

SPECIFICATIONS

Barrel diameter	76mm	90mm	105mm	152mm	155mm
Weight (with aluminum casing)	7.7kg	9.2kg	10.5kg	15.7kg	15.8kg
Weight (with PVC bag)	5.9kg	7.4kg	8.4kg	13.6kg	13.8kg
Weight	3.8kg	5.3kg	6.5kg	11.6kg	11.7kg
Power Source	Range from 12v to 36v DC or (115v/220v AC with transformer)				
Electric cable to PWR Source	10m (control box to battery connection)				
Supply cable (control box to brush)	6.5m	7m	7.5m	9.5m	9.5m
Required Man Power	1 Person				
Temperature	-30°C~ + 70°C				
Cleaning time					
Normal	8min	10min	10min	12min	12min
Intense	15min	16min	16min	23min	23min
Demob	40min	40min	40min	40min	40min
Brush Length	350mm	380mm	380mm	420mm	420mm
Spray Pressure	40psi				
Spray Volume	63L/h				