

# BORE MAINTENANCE SOLUTIONS AND INSPECTION



**CLP**  
SYSTEM AB

[www.clp.se](http://www.clp.se)

# VIBRATING PNEUMATIC BORE BRUSHES



## THE ADVANTAGES OF THE VPBB™ – SYSTEM ARE OBVIOUS:

- easy semi-automatic operation by one man only.
- rapid cleaning, 15 - 30 minutes for one man.
- air pressure 6 - 10 bar and air volume appr. 200 l/m.
- possible to adapt to the brake system of a vehicle.
- can be operated inside a very narrow turret.
- small consumption of oil and de-coppering foam (optional).
- in use for more than 15 years in more than 25 countries.



Foaming the bore.

**VIBRATING PNEUMATIC BORE BRUSHES (VPBB™) ARE DRIVEN BY COMPRESSED AIR AND MAKES CLEANING AND PRESERVATION EASIER AND MORE EFFICIENT. FOR CALIBER 20 TO 155MM.**

## FOAM APPLICATION UNIT FOR DECOPPERING AND CLEANING



Foam discolouring in blue. Evidence of copper.

### **SIMPLE AND FAST!**

- De-coppering and cleaning of bores.
- Uses compressed air, VPBB™ control box, FAU and Milfoam® liquid.
- Foam the bore/barrel and wait until the foam discolour in blue, it's evidence of copper!
- Wait another 30 minutes and then remove the foam and clean out the copper residues!

**FAU – FOAM APPLICATION UNIT. CALIBER 20 TO 155 MM.  
USE WITH VPBB™ CONTROL BOX AND MILFOAM® DE-COPPERING LIQUID.**

# CLEANERS LUBRICANTS PROTECTANTS



CLP-4

CLP-5

CLP-8

CLP-9



CLP-16

LP-PS

Part	Description	Accessory
CLP-4	4 oz. Squeeze Bottle	Extender Tube
CLP-5	1 Pint Bottle	Trigger Spray
CLP-8	1 Liter Bottle	Trigger Spray
CLP-9	5 Liter Jug	
CLP-16	0,68 oz. Squeeze Bottle	
LP-PS	7,5 ml Tube	Needle Applicator

NATO Spec. Mil. Standard MIL-L-63460F

## CLEANER LUBRICANT PRESERVATIVE (CLP®).

- Originally developed for the U.S. Military and proven in the world's most extreme conditions.
- Break Free® CLP® is the gold standard formula for the ONE STEP lubricating and protectant firearm solution.
- More than a superior lubricant, CLP® actually cleans firing residue and other contaminants from the bore, moving parts and exterior of firearms while simultaneously reducing friction and protecting from corrosion.

**BREAK-FREE CLP®. SYNTHETIC, MULTI-PURPOSE OIL FOR EFFICIENT MAINTENANCE. BREAK-FREE CLEANS, DISPLACES WATER, HELPS LOOSEN STUCK PARTS, LUBRICATES AND PROTECTS FROM RUST.**



SMX-8

SMX-9

SMX-4

**BREAK-FREE SMX™. SYNTHETIC OIL, EXTRAORDINARY GOOD AT CONSERVING AND PROVIDES EXCELLENT LUBRICATION ON WEAPON AND PARTS OF WEAPONS IN CONNECTION WITH SURFACE TREATMENTS.**



**MILFOAM® PROVIDES A COMPLETE BARREL CLEANING SYSTEM FOR ALL KIND OF FIREARMS.**

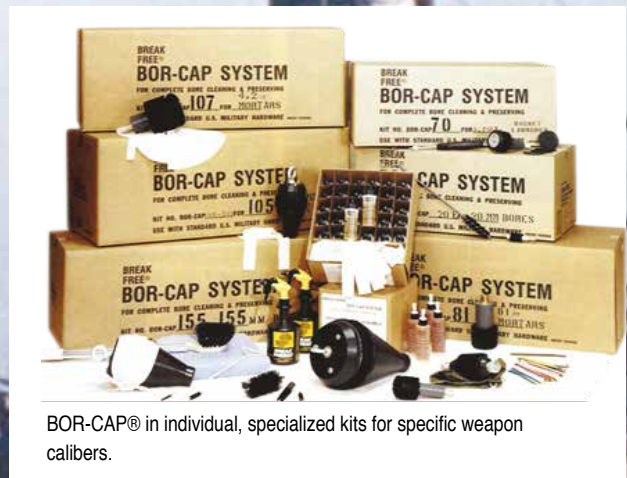
**BOR-CAP®, NUMBER ONE IN MAINTENANCE SYSTEMS! ALL IN CONVENIENT ORGANIZED KITS FOR FASTER, BETTER AND MORE EFFICIENT BORE CLEANING, LUBRICATION AND PRESERVING. CALIBERS 4,5 TO 155 MM AND MORTARS 40 TO 120 MM.**

There's no last-minute scrambling for missing elements, no delays and no jumble of miscellaneous elements to order and distribute, when you utilize the BOR-CAP® Cleaning And Preserving system. Everything you need in the field, in the correct proportions, is logically organized in a compact, self-contained kit for use with the specific bore size of your weapon. All BOR-CAP® kits have NSN Noz. Effectiveness, economy and reliability! 1 day instead of 3 days after firing... 1 product instead of separate cleaners and oils... 1 kit instead of many separate inventory items...

**BOR-CAP®, ALL IN CONVENIENT ORGANIZED KITS.**

- Nylon brushes can now replace prickly, abrasive wire brushes since BreakFree® CLP/SMX™ oils provide chemical cleaning muscles.
- Permit easy scrubbing action.
- Brushes are tailored to their special tasks. Mortar brush, for example, cleans bore plus firing pin. Chamber brush reaches "inaccessible" parts etc.
- Large bore brushes come with "reentry" centering cone so brush may be drawn back from muzzle without need for manual centering.
- Tie-on, disposable sleeves ensure effective wet and dry punching.

**ALL IN INDIVIDUAL, SPECIALIZED KITS FOR SPECIFIC WEAPON CALIBERS FROM 4,5 TO 155 MM AND MORTARS FROM 40 TO 120 MM.**



BOR-CAP® in individual, specialized kits for specific weapon calibers.



BOR-CAP® AG 1 kit for small calibers.



BOR-CAP® Mortar 81.

## VIBRATING ELECTRIC BORE BRUSHES



During our 30 years in the weapon-maintenance business we have found out that vibrating brushes cleans a lot better than push/pull brushes! Therefore is VEBB™ in all essential functions identical with our very successful Vibrating Pneumatic Bore Brush system VPBB™. The only main difference is the use of 24/110/230V Electric source instead of 4-10 bars of Pneumatic air. Please note that we have no high powered electrical components or cables entering the bore and that could mean a risk to humans or material! The excellent VPBB™ Oil-Dispenser with its ability to automatically distribute a perfect and low consumption layer of oil inside the bore is of course also a part of the VEBB™ system.



**VIBRATING ELECTRIC BORE BRUSHES (VEBB™) ARE DRIVEN BY ELECTRICITY AND MAKE CLEANING EASIER AND MORE EFFICIENT.**

# BEMIS FEATURES



## BEMIS™ LASER-BASED GUN BORE EROSION MEASUREMENT INSPECTION SYSTEM FOR 5.56MM –155MM WEAPON.

### LEADING-EDGE LASER-BASED GUN BORE INSPECTION TECHNOLOGY

Laser Techniques Company, LLC (LTC) specializes in the development of automated, high resolution laser-based sensors and systems for a wide variety of NDT and Quality Control applications. LTC sensors are used to detect and measure difficult-to-inspect features such as erosion, corrosion or deformation in tubes and bores.

The BEMIS™ system is a high-performance laser based inspection system capable of rapidly, accurately and quantitatively mapping component surfaces. The BEMIS™ sensor operates like a non-contact “laser caliper”, rapidly scanning a tiny laser beam over the surface. This eliminates operator subjectivity and human error by scanning up to 100% of the surface, providing quantitative results used to confirm, document and monitor the integrity of gun bores and other parts.



### LASERVIDEO™ ELIMINATES NEED FOR BORESCOPES

A unique feature of the BEMIS™ system is Laser Video™ image display. This allows the operator to view high-resolution, laser-generated images of the bore surface. The Laser Video™ image resembles a conventional CCD camera image — but without the distortion caused by right-angle mirrors.

### HIGH RESOLUTION DATA

The BEMIS™ system is capable of detecting and mapping flaws or dimensional variations such as pits, corrosion, and erosion with typical accuracies of better than  $\pm 0.001$  inch (0.025 mm). Test results can be viewed in several user-friendly graphic or tabular summary formats.

### MODULAR/FLEXIBLE/EXPANDABLE

The Laser MicroMap™ system employs a modular design with easy expandability. The LP-4210™ data acquisition unit can interface with a wide range of probe delivery systems from 5.56mm to 155mm.



**ELIMINATE OPERATOR SUBJECTIVITY AND TAKE THE GUESSWORK OUT OF YOUR GUN BARREL INSPECTIONS. RAPID – ACCURATE – QUANTITATIVE.**



Designed to inspect large caliber weapon bores