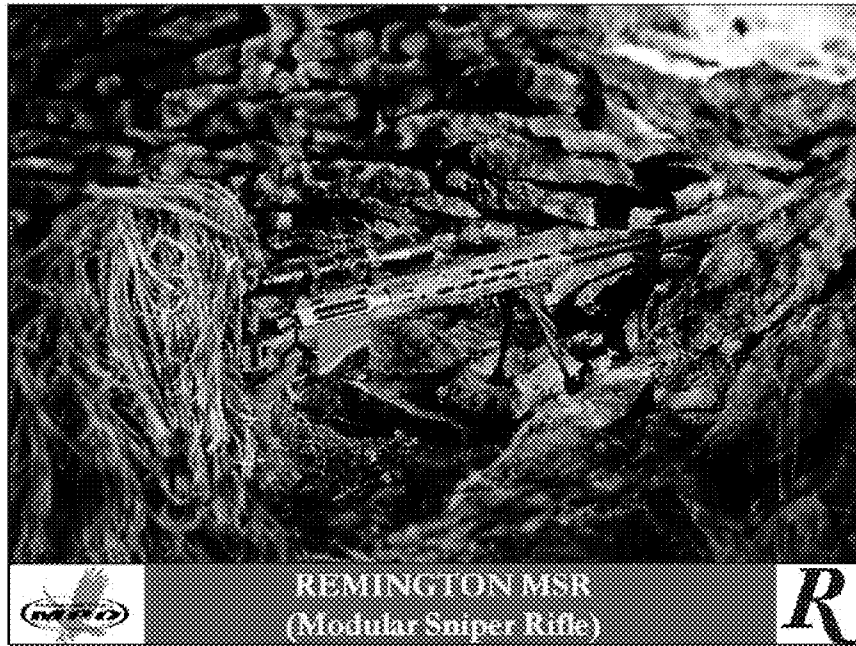


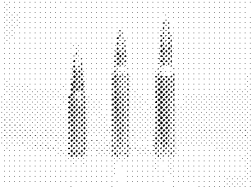


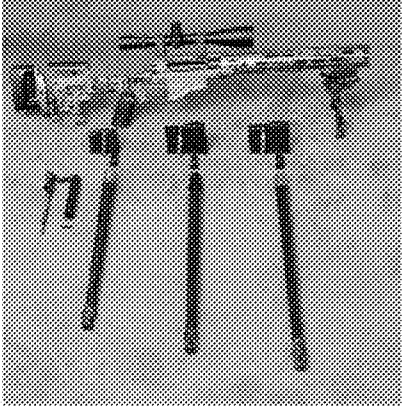


Agenda



- ① Capability and Capacity
- ② Modular Sniper Rifle Specifications
 - Rifle
 - Auxiliary Equipment
 - Accuracy
 - Barrel Life
- ③ Key Questions
- ④ Panel Questions






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Remington and Freedom Group

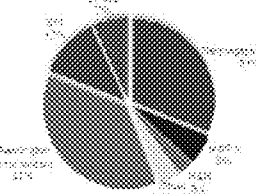


Freedom Group is the world's leading manufacturer, designer, assembler, and marketer of firearms, ammunition, and related products for the hunting, shooting sports, law enforcement, and military markets. As one of the largest manufacturers in the world of firearms and ammunition, we have some of the most globally recognized brands including Remington, Mossberg, Harrington & Richardson, NEF, England Firearms, Ltd., Smith, Parker, Bushman or DPM.

Key Facts

- **Number of Years in Business:** 192 Years
- **Number of Facilities:** 15
- **Products Sold in Over 60 Countries**
- **Number of Employees:** Over 2,000
- **Largest Manufacturers of Commercial Firearms and Ammunition in USA** (DPM rifles and shotguns, pistol & 1 M&C rounds of ammunition a year)

Sales by Brand



Brand	Percentage
Remington-Union	33%
Smith	27%
Harrington & Richardson	17%
England Firearms	10%
NEF	8%
Mossberg	5%



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 Capability and Capacity	
Market Leadership	Product Leadership
- Long-term leadership in defense and aerospace 40+ domestic design jobs 100+ foreign design and design centers 20+ major contractors 100+ major defense and aerospace customers - Long-term leadership in defense and aerospace 100+ major defense and aerospace customers - Long-term leadership in defense and aerospace 100+ major defense and aerospace customers	- Product leadership in defense and aerospace 100+ major defense and aerospace customers - Product leadership in defense and aerospace 100+ major defense and aerospace customers - Product leadership in defense and aerospace 100+ major defense and aerospace customers
Engineering/Innovation	Manufacturing Leadership
- Over 100 years of experience in defense and aerospace 100+ major defense and aerospace customers - Over 100 years of experience in defense and aerospace 100+ major defense and aerospace customers - Over 100 years of experience in defense and aerospace 100+ major defense and aerospace customers	- Over 100 years of experience in defense and aerospace 100+ major defense and aerospace customers - Over 100 years of experience in defense and aerospace 100+ major defense and aerospace customers - Over 100 years of experience in defense and aerospace 100+ major defense and aerospace customers
Bottom Line: We will have no issues delivering test systems, ammunition, or production systems within current capacity and do not require additional facilities.	



Development and Testing

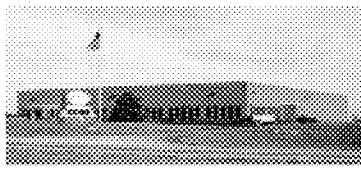


- Today's only stand alone R&D facility on 20 Acres in Elizabethtown, Kentucky
- 20,000 SF Office Building
- 10,000 SF Test Laboratory
 - Metallurgical Lab
 - Stereology
 - Optical Comparator
 - CMM
 - X-Ray/Cut Optical Inspection
 - Fixed Gages
 - Strain Gage
 - Machine Shop
 - Woodworking
 - Fly Gills Testing
 - Electronics Lab
 - Handloading Room

- Computer Data Center
 - Interior Pollution Measurements
 - Data Collection
- Shot Ranges
 - Pressure and Velocity
 - Penetration and Causality
 - Purposeful Abuse
- Long Ranges
 - DDM Range (40 Cal. Remo)
 - 25 Yard P&R



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M24 and M24E





Remington M24



Remington M24E

• Shows an adaptation for the US Army the M24 for the modified to which all other military grade sniper rifles are based.

• The M24 is a bolt action rifle with a long range precision sniper system capable of extending the function of ordinary sniper systems to include extreme high altitude and the depths of the ocean.

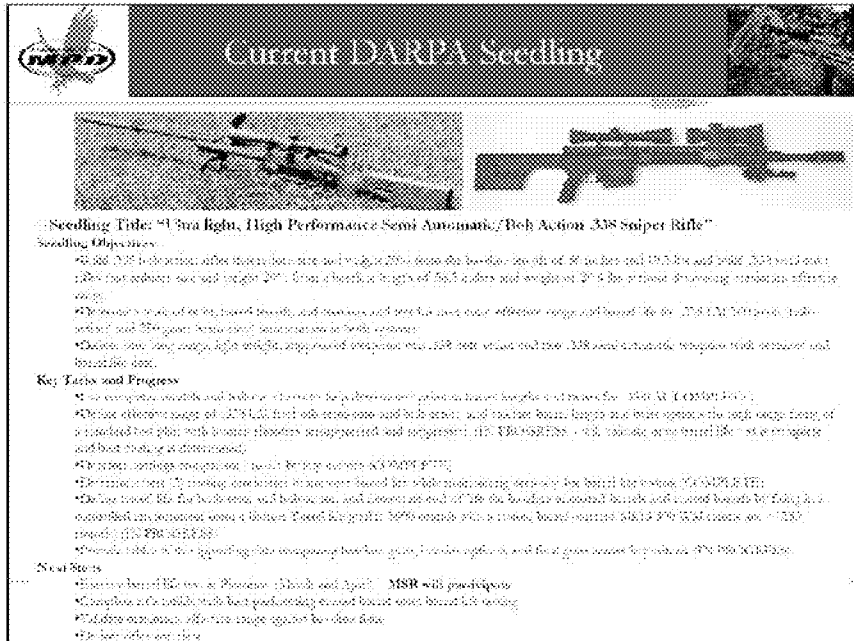
• The M24 is based on the legendary Model 700 and 7400 series. A high degree of accuracy is combined with the extremely rugged frame. A fiber reinforced fiberglass stock formwork in aluminum reinforced frame. This provides the operator with a lightweight rifle and better the barrel life. The reinforced fiberglass system is made of single T.

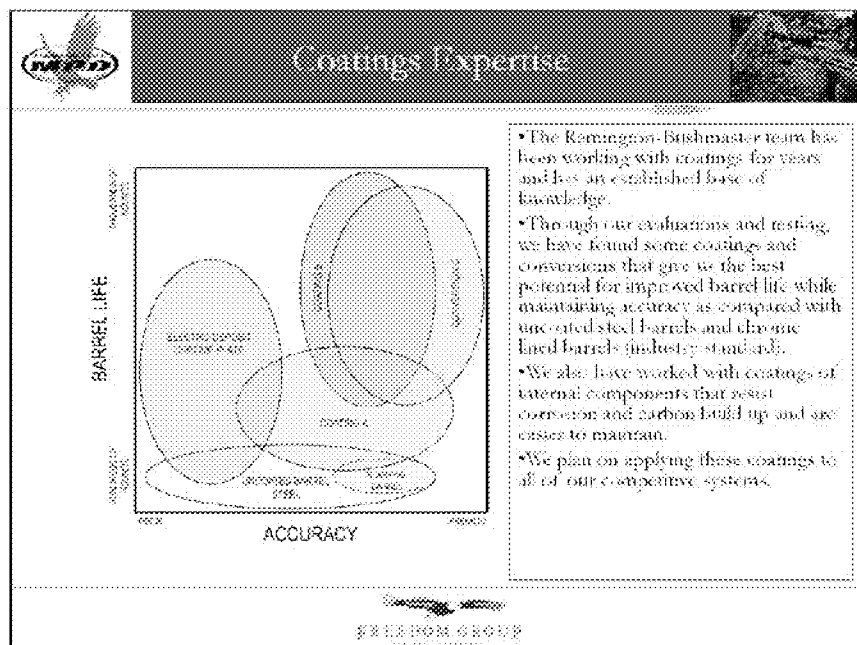
• The M24 features a Remington 700 series standard 24" barreling system. A high degree of accuracy is combined with the rugged 700 series. A high degree of accuracy is combined with the rugged 700 series. A high degree of accuracy is combined with the rugged 700 series.

• The M24E is an M24 long range precision rifle based on the Remington M24. It is a bolt action rifle with a long range precision sniper system capable of extending the function of ordinary sniper systems to include extreme high altitude and the depths of the ocean.

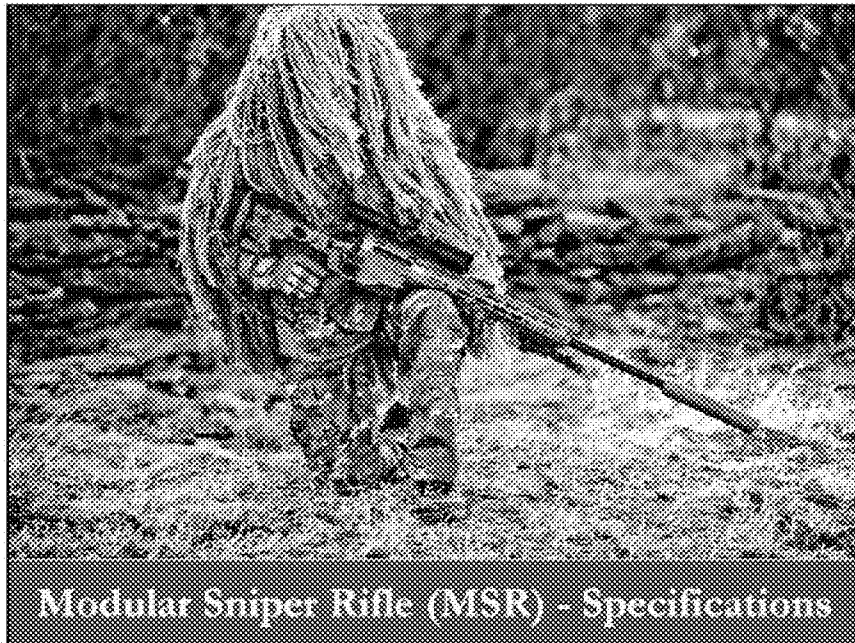
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• The M24E features a Remington 700 series standard 24" barreling system. A high degree of accuracy is combined with the rugged 700 series. A high degree of accuracy is combined with the rugged 700 series. A high degree of accuracy is combined with the rugged 700 series.





Uncoated barrels have a finite life that is a function of the material and its resistance to heat-checking and the internal stresses developed during firing. Typically, these materials range from stainless steel (400 series) exhibiting the best life-time performance, followed by alloy steels (4140 / 4340) and then by low alloy or unalloyed steels (11xx series). The accuracy of a barrel is directly related to the control of the dimensions of the chamber, bore, profile, and the crown of the barrel, in the simplest terms.



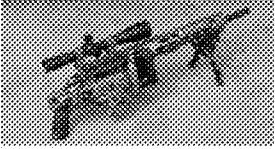
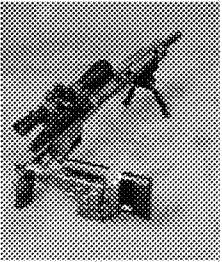


Modular Sniper Rifle

(Specifications)



- Purpose built, multi-mission, multi-caliber sniper system.
 - User can change barrel, bolt face, and magazine and go from 338 LM to 300 WinMag in minutes.
- Calibers: 338 Lapua Magnum, 300 WinMag, 7.62mm NATO
- Barrel
 - Length: 20" up to 27"
 - Type: 4340 with precision single point cut rifling in 5R profile.
- Stock: Foldable, multi-pos, adjustable stock
- Trigger: New user-adjustable Remington 2.5 Grk. Per
- Weight: 6.5 lbs to 27 lbs, non-fused barrel (for most configurations)
- Length: 5 ft with 27in barrel - 4 ft when folded with a 20in barrel
- Chasing: PVT) and/or fixed hand-rest
- Rail: 20 M&P mounting



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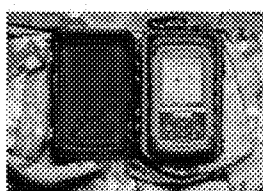
Ancillary Equipment



- Optics - Leupold MK4 ER/T 8.5-25x50mm
 - 34mm main tube
 - 1/100 inch mil-adj
 - locking mirrors
 - 4-EP
 - H17 reticle (Bren or non-Bren)
 - 120 MOA of travel

- PDA/Ballistic Software
 - Hardware - Trimble Recon
 - Software - Trimble/Argo/MP Ballistic Software







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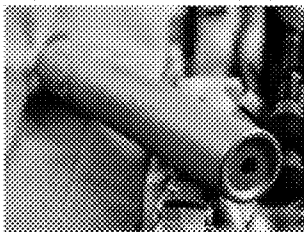


Ancillary Equipment



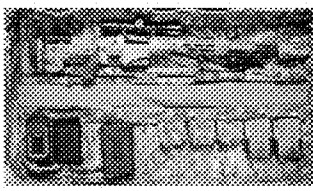
① Suppressor, AAC Titan™

- Eliminates 98% of muzzle report
- Reduces recoil by 60%
- 24.25 inches
- 2.5 inches long
- Extends 8.8 inches past the muzzle
- Decibel range: 136-137db
- Shift is 1 MOA or less



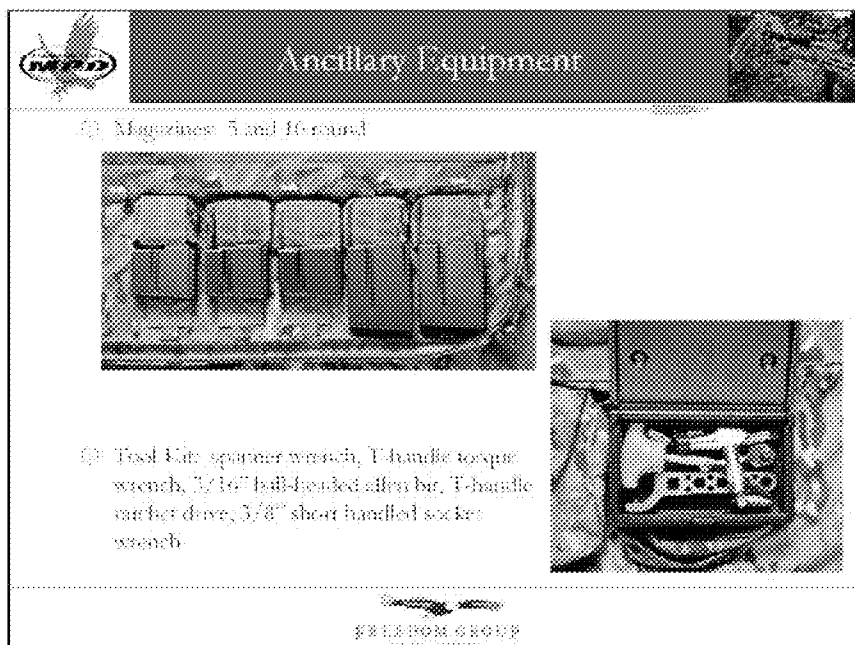
② Soft Case

- Compartments for rifle and optic, barrels, magazines, PDA, tool kit, cleaning kit and suppressor





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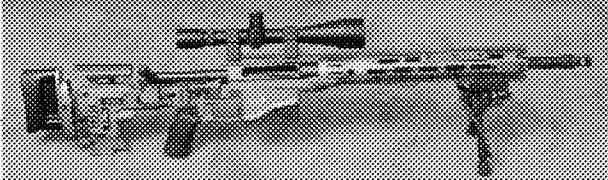


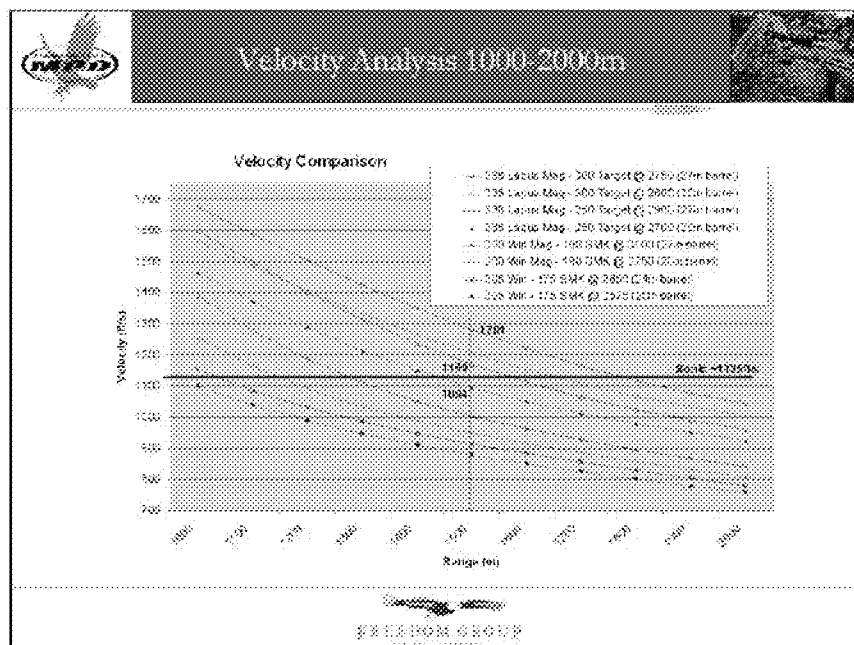


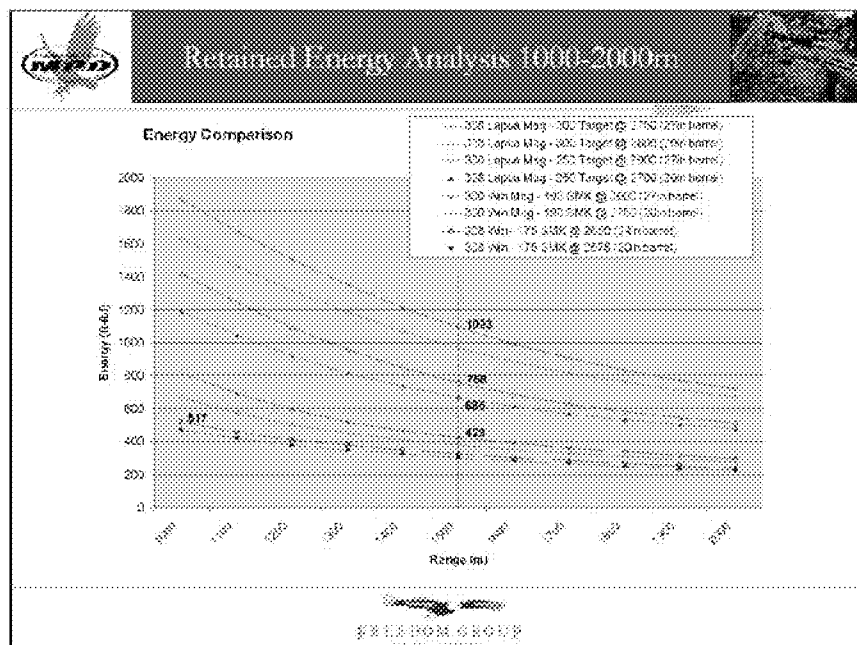
Accuracy



- ⊞ Repeatable 1 MOA Extreme vertical spread at 1500 meters (1675 yards, 1 meter = 39.37 inches)
 - From ranges of 300m to 1500m, we use a Vecmonix PLRF150 backed up with a Viper laser range finder to verify actual ranges.
 - Weather data is obtained using a Kestrel 4850 weather station and rifles are chronographed at the firing line using the same lot ammunition used in accuracy testing.
 - The weapons are cleaned for carbon and copper fouling every 20 rounds, a loading shot is fired after the cleaning process.
 - The actual precision data is gathered at the 300m, 600m, 900m, 1200m and 1500m ranges using five separate 5 round shot groups both suppressed and unsuppressed.
 - The equation for MOA is as follows: $\tan^{-1}(\text{range})$ divided when π times MOA magnitude ($\pi \approx 3.14$ for 1 MOA, $\pi \approx 1.57$ for 1.5 MOA, etc), and range is the desired range you are considering. Computed that will in the same units as range. Then converted into inches (typically) from either yards or meters (1 m = 39.37 in).
- ⊞ Desired Result: Can penetrate Level IIIA body armor or soft-skinned vehicle at 1500 meters.









Accuracy Test Methodology



1. Fire at 300, 600, 1000, 1200, 1500
2. Employing expert human shooters with minimum and maximum and rolled flyers noted
3. Fired at locations with measured yard lines
4. 3 shot groups, one shot per round, cooling period (10 min suppressed, 5 minute unsuppressed), repeat, 10 minutes between stages
 - Stage 1: Suppressed
 - Stage 2: Unsuppressed
 - Stage 3: Suppressed
 - Stage 4: Unsuppressed
5. 10 rounds per gun per yard line = 300 rounds total recorded = all rounds counted
6. Rifle is cleaned for carbon and copper fouling every 20 rounds; a feeding shot is used after each cleaning
7. Vertical spread measured at each yard line for deviation from 1.0 MOA
8. Summary:
 - One of 40 rounds (20 suppressed, 20 unsuppressed) in the form of 3 shot groups at each yard line
 - 1 sigma deviation means that 68% of the rounds fired have to be within 1.0 MOA of range to consider the rifle to be "effectively accurate" at that range
 - Rolled flyers are noted but included and can be used as mitigating reasons if necessary to explain unexpected results.

Results from MSSR test in March 2009: 27" fbl and 24" fbl systems were sub-1 MOA out to 1500m.



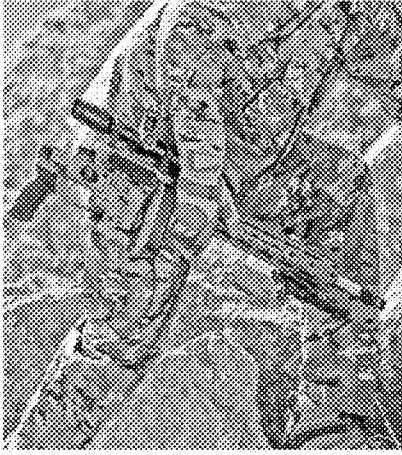
REMINGTON-UMC GROUP



Barrel Life

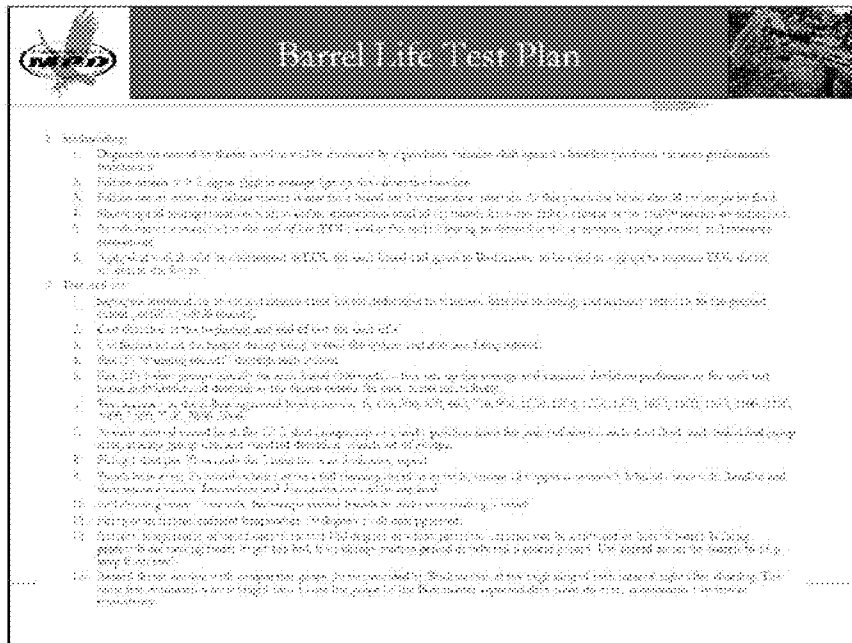


- ④ Defined as barrel degradation caused by fire at erosion measured by a precision variance against a baseline precision variance performance benchmark.
- ④ The end of a barrel's life (EOL) is when as precision degrades to the point where there is a 2-sigma shift in average precision variance from the baseline for two consecutive testing intervals.
 - Intervals are 0, 150, 300, 450, 600, 750, 900, 1050, 1200, 1350, 1500, 1650, 1800, 1950, 2100, 2250, 2400, 2550, 2700, 2850, 3000.
 - At each interval round level, five 3.5-phi groups, report individual group sizes, average, and standard deviation of each set of groups.
- ④ Goal is 3000 rounds (will be proven at scheduled testing at the Army as part of DARPA seedling in March/April 09).
- ④ Barrel is replaceable at the user level.





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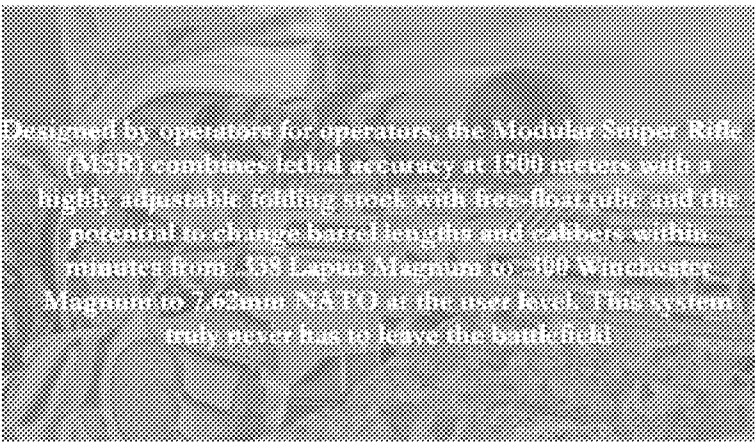


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Summary



Designed by operators for operators, the Modular Sniper Rifle (MSR) combines lethal accuracy at 1500 meters with a highly adjustable folding stock with free-float tube and the potential to change barrel lengths and calibers within minutes from .338 Lapua Magnum to .308 Winchester Magnum to 7.62mm NATO at the user level. This system truly never has to leave the battle field.


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