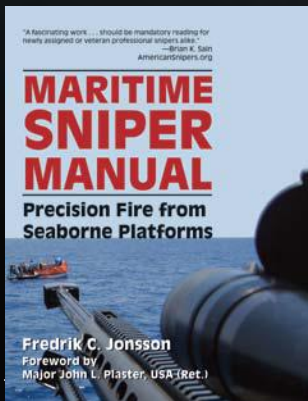


# SNIPER SUPPORT AND SAFETY FOR HIGH SPEED BOAT OPERATIONS

CAPABILITIES, HTI EQUIPMENT TRAINING AND FUTURE

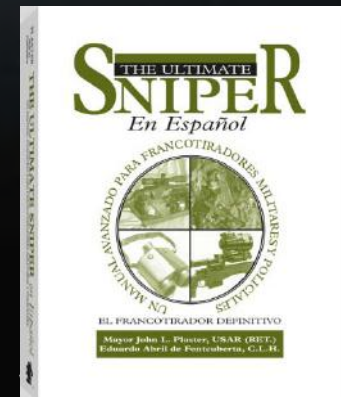
## HighSpeedBoat OperationsForum



Rev2 11

*Eduardo Abril de Fontcuberta  
Master Sniper Instructor  
Master Diver*

*2011.50 BMG 1000 yd. World Champion  
[www.icsdefenses.com](http://www.icsdefenses.com)*



[cybersniper@pobox.com](mailto:cybersniper@pobox.com)



Eduardo Abril de Fontcuberta – Spanish Foreign Legion SF



# The problem:

Providing safety and support for:

- VBSS and HVBSS operations
- Counter Sniper Overwatch operations
- Surgical Intercept and Disable Fire
- On-board protection of vessels
- Observation of target is limited for RHIB teams



# The Solution:

Application of Sniper:

- Surgical Fire
- Support and Security of Assault teams
- Antimaterial HTI capabilities
- Observation/Overwatch
- Perimeter Safety
- Best view of target: Snipers are the team's eyes !!



# Advantages:

- Extra safety for teams
- Low Collateral Damage
- Enhanced Command
- Optics advantage
- Surgical Elimination
- Disabling MP Fire / Incendiary effect
- Low Cost per engagement
- Be able to work outside RPG range



# Disadvantages :



- Sniping is a VERY complex tactical role
- VERY reliant on high level of training
- VERY reliant on specialized equipment- Ballistics
- Skill level is perishable
- High cost of maritime sniper training

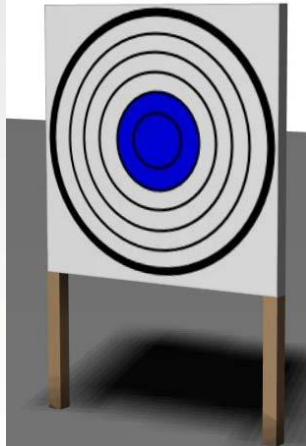
# Current equipment ?



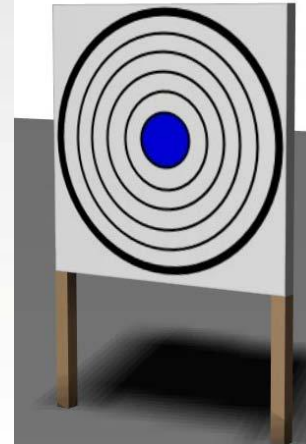
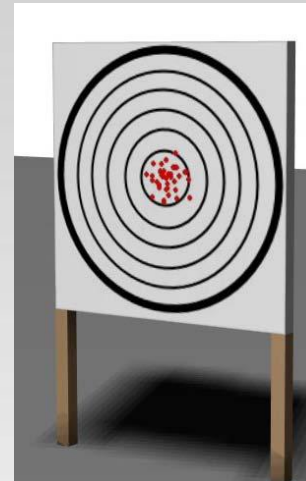
- Is it the best suited for the role?
- Is it a liability?
- Inaccurate?
- Low terminal effects?

# Accuracy at 550m:

M33  
BALL



How big is your  
target?  
Can you shoot  
with  
confidence  
among your  
own team?



NM140  
MK-211  
MP  
ROUND



# Scenarios?



Will you attempt these shots with your current equipment and sniper training ?

With restricting ROES !!!      And media attention !!!

# Current capabilities ?

AS SNIPERS: Are we really capable of supporting operations ?  
Can we operate outside RPG range?



# Yes we are !

- Can we be, even better ? Yes SIR !!



03:59:40

ScanEagle

EO

ID

678



**BARRETT.**

# Can they be enhanced ?



- New equipment
- Structured training
- Integration with Tactical Boat Crews
- Crosstraining

# New equipment

- Extended Range
- More Lethal
- More Accurate
- More Rugged
- Marine Proof



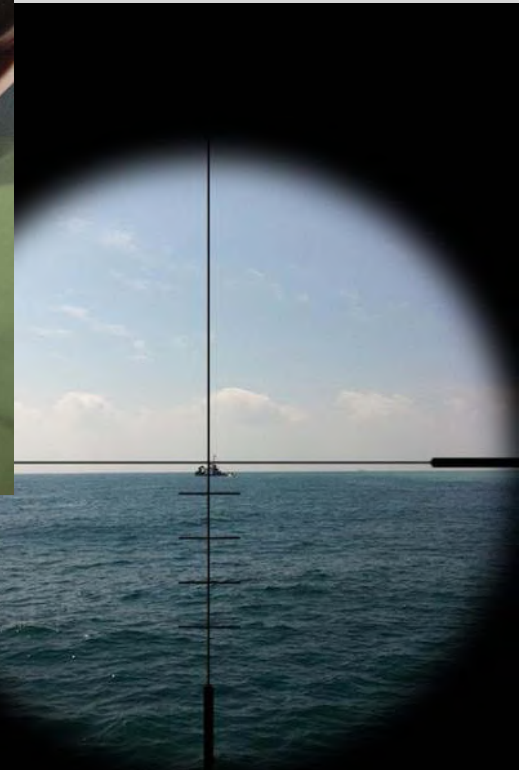
DA Table

a report by ColdBore 1.0 Desktop Edition - exterior ballistics calculations  
www.patagoniaballistics.com

Dist	+6000 Feet		+7000 Feet		+8000 Feet		+9000 Feet		+10000 Feet		+11000 Feet		+12000 Feet		+13000 Feet		+14000 Feet	
yards	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD	Path MRAD	Wind MRAD
1400	-11.2	-02.0	-11.0	-01.9	-10.8	-01.8	-10.6	-01.8	-10.4	-01.7	-10.3	-01.6	-10.1	-01.5	-09.9	-01.5	-09	-09
1500	-12.7	-02.2	-12.4	-02.1	-12.2	-02.0	-11.9	-01.9	-11.7	-01.9	-11.5	-01.8	-11.3	-01.7	-11.1	-01.6	-11	-11
1600	-14.3	-02.4	-14.0	-02.3	-13.7	-02.2	-13.5	-02.1	-13.1	-02.0	-12.9	-01.9	-12.7	-01.9	-12.4	-01.8	-12	-12
1700	-16.0	-02.7	-15.6	-02.5	-15.3	-02.4	-15.0	-02.3	-14.7	-02.2	-14.4	-02.1	-14.2	-02.0	-13.8	-01.9	-13	-13
1800	-17.9	-02.9	-17.5	-02.8	-17.1	-02.7	-16.7	-02.5	-16.3	-02.4	-16.0	-02.3	-15.7	-02.2	-15.4	-02.1	-15	-15
1900	-20.0	-03.2	-19.5	-03.0	-19.0	-02.9	-18.5	-02.7	-18.1	-02.6	-17.7	-02.5	-17.3	-02.4	-16.9	-02.3	-16	-16
2000	-22.3	-03.4	-21.7	-03.3	-21.1	-03.1	-20.6	-03.0	-20.1	-02.8	-19.6	-02.7	-19.1	-02.6	-18.6	-02.4	-18	-18
2100	-24.8	-03.7	-24.1	-03.5	-23.4	-03.4	-22.8	-03.2	-22.2	-03.1	-21.6	-02.9	-21.0	-02.8	-20.5	-02.6	-20	-20
2200	-27.6	-04.0	-26.7	-03.8	-26.0	-03.6	-25.2	-03.5	-24.5	-03.3	-23.8	-03.1	-23.2	-03.0	-22.5	-02.8	-22	-22
2300	-30.5	-04.2	-29.6	-04.1	-28.7	-03.9	-27.8	-03.7	-27.0	-03.5	-26.2	-03.4	-25.5	-03.2	-24.7	-03.0	-24	-24
2400	-33.7	-04.5	-32.7	-04.3	-31.6	-04.1	-30.6	-03.9	-29.7	-03.8	-28.8	-03.6	-27.9	-03.4	-27.1	-03.2	-26	-26
2500	-37.2	-04.8	-36.0	-04.6	-34.8	-04.4	-33.7	-04.2	-32.6	-04.0	-31.6	-03.8	-30.6	-03.6	-29.7	-03.5	-28	-28
2600	-40.8	-05.0	-39.5	-04.8	-38.2	-04.6	-36.9	-04.4	-35.7	-04.2	-34.6	-04.0	-33.5	-03.9	-32.4	-03.7	-31	-31
2700	-44.7	-05.3	-43.2	-05.1	-41.8	-04.8	-40.4	-04.7	-39.1	-04.5	-37.8	-04.3	-36.6	-04.1	-35.4	-03.9	-34	-34
2800	-48.8	-05.5	-47.2	-05.3	-45.6	-05.1	-44.1	-04.9	-42.6	-04.7	-41.2	-04.5	-39.9	-04.3	-38.6	-04.1	-37	-37



# STEP 1: Better Training



- For the snipers
- For the boat crews
- For the assault teams
- For the protected GOPLAT/SHIP



# Estructured Maritime-Sniper Training

## New and MUCH more advanced training systems

"A fascinating work . . . should be mandatory reading for newly assigned or veteran professional snipers alike."  
—Brian K. Sain  
AmericanSnipers.org

# MARITIME SNIPER MANUAL

### Precision Fire from Seaborne Platforms

**Fredrik C. Jonsson**  
Foreword by  
Major John L. Plaster, USA (Ret.)

**SPECTRE MARINE**

EDUARDO ABRIL DE FONTCUBERTA

EDUARDO ABRIL DE FONTCUBERTA'S  
**100 SNIPER EXERCISES**

FOR MILITARY AND POLICE

**100<sup>+</sup> SNIPER EXERCISES**

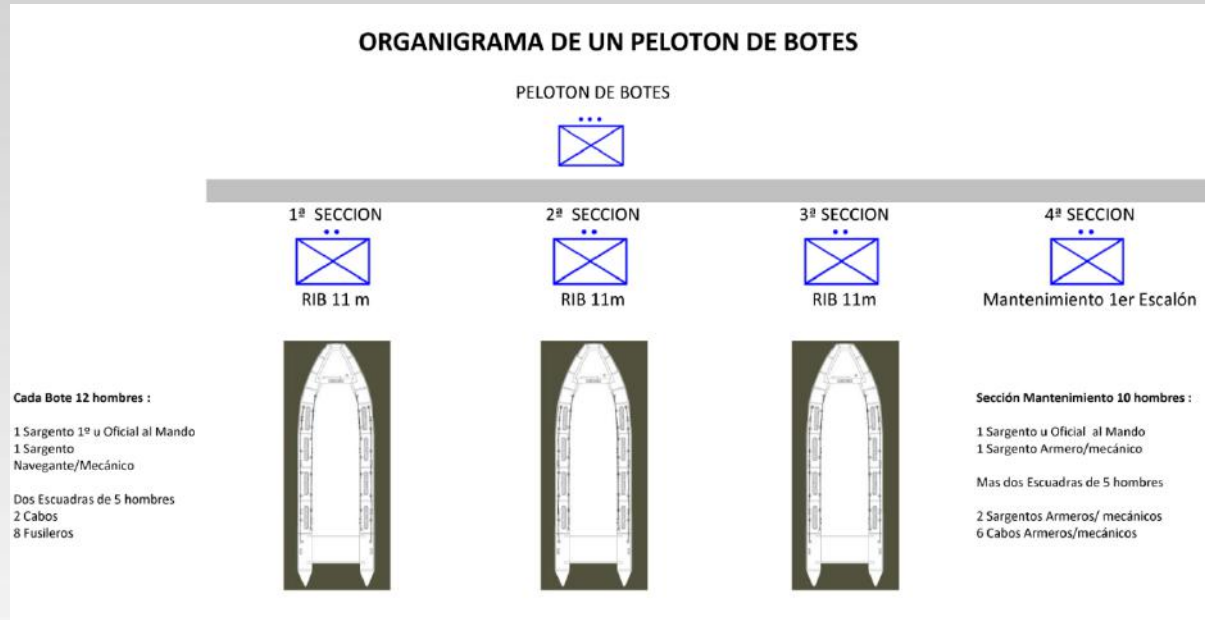
EDUARDO ABRIL DE FONTCUBERTA

FROM 25 YEARS SHIPING AND COMPETITION SUCCESS

RATED AND WITH NEED-TO-KNOW KNOWLEGE BASE



# Sniper training for boat crews?



- How snipers operate: TRUST, UNDERSTAND, HELP them
- Communications – Fire coordination
- How to react when supported by sniper fire
- What are their capabilities – BALLISTIC complications



# STEP 2 : Adequate Ammo

- Accurate
- Terminal Effects
- Flexible
- Can be used with current equipment issued



NAMMO RAUFOSS 12,7x99mm (cal .50 BMG)  
MULTIPURPOSE AMMUNITION FAMILY

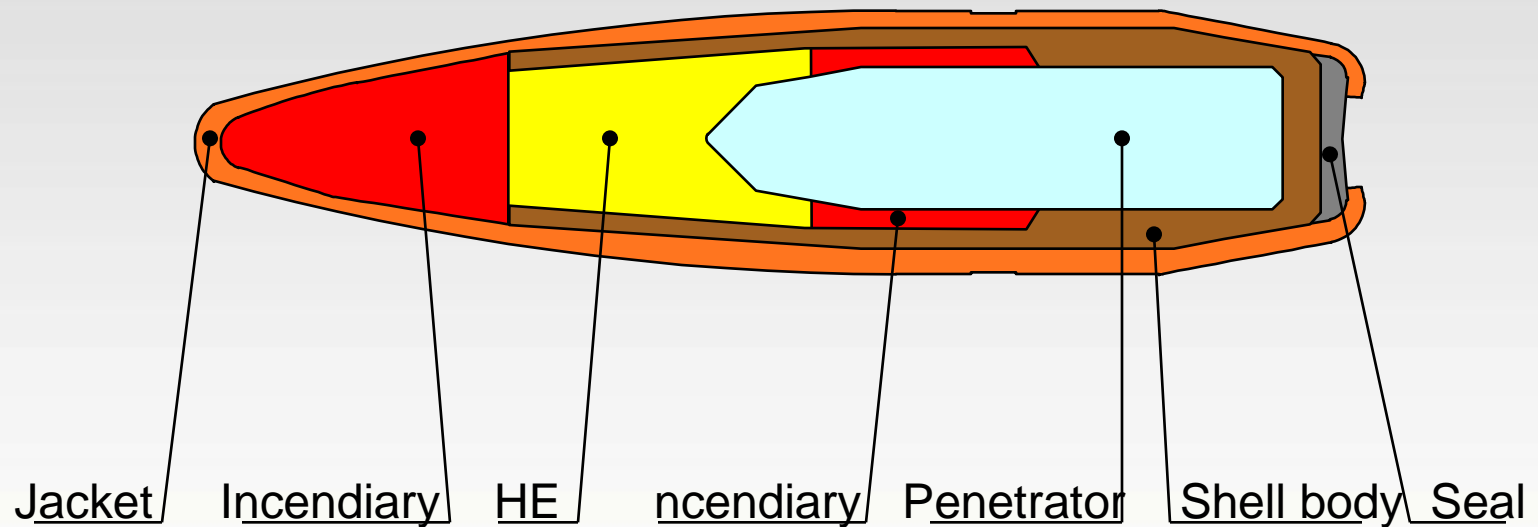
# Application of the MP round:

- 12,7mm Multipurpose introduced in 1981 (Norway NAVY)
- Penetration, fragmentation, incendiary and blast effect.
- Optimised for anti helicopter and anti-ship role.
- Secondary role against light armour and area suppression.

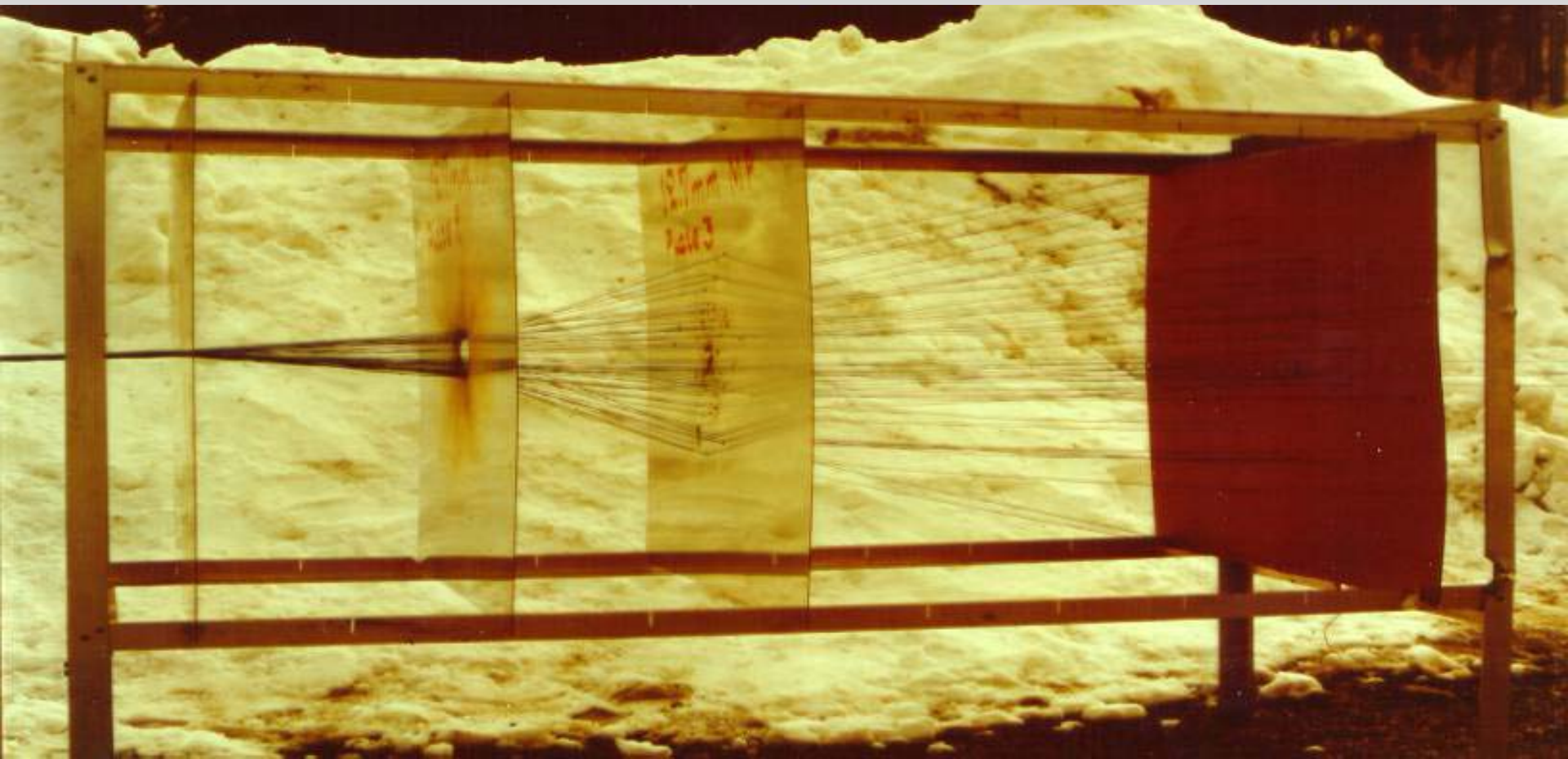


# Multipurpose NM140 (MK-211)

One word: **FLEXIBILITY**



# Effects in Light Airspaced Target (wires through fragment penetration holes)

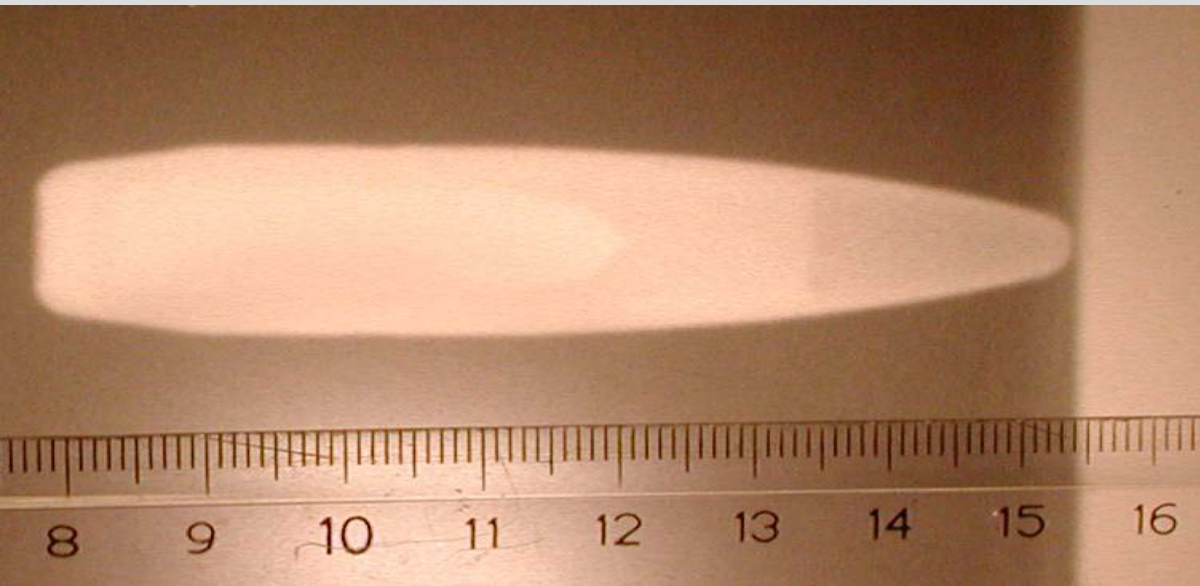


# Incendiary & Suppression Effect

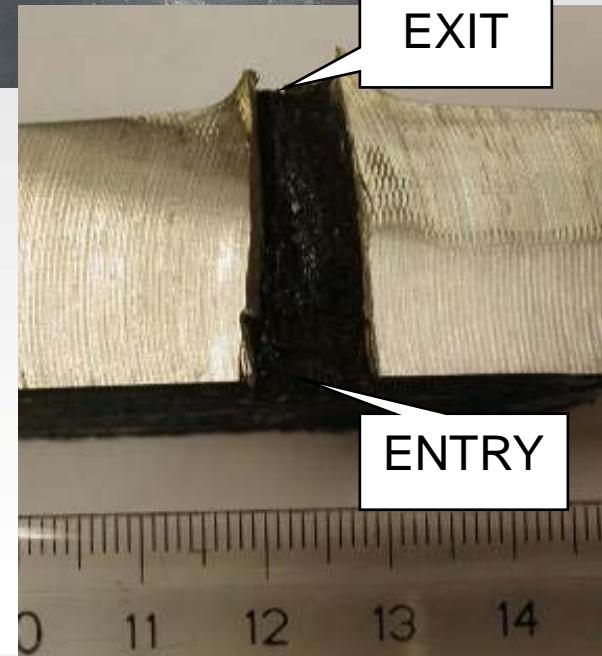
Devastating in LIGHT BOATS  
with LIGHT metal sides o LIGHT armoring



# Effects on Steel & Armored Boats



- Pirates behind barriers
- Armored targets
- Thick hull penetration



# STEP 3: Better rifles and optics

- Rifles
- Optics/Ballistics
- Thermal
- Night Vision



# New Equipment Knowledgebase

## The new sniper rifle trends:

- Anti personnel : 338LM Barrett MRAD
  - Multicaliber long range – up to 1900m
  - Enhanced range over .308W (7.62x51NATO) **NEARLY DOUBLE !!!**
  - Same outstanding Accuracy / **Sub-MOA at any range !!!**
- Anti material : .50 BMG Barrett M107A1
  - Hard Target Interdiction – up to 1700m - **MP, Armor & Incendiary**
  - Enhanced Accuracy over M82 – M107 – **Sniper Accurate !!!!**
  - Suppressor capable
  - The NEW STANDARD
  - Marine PVD finish
  - BORS ballistic calculator





# Maritime Sniper Rifles for the 21st Century



- More Accurate
- Tactically Focused – Purpose built
- Marine environment ready
- The new standard !!!
- The M107A1 .50 BMG Antimaterial rifle
- The MRAD .338LM Extreme range sniper rifle

# Thank you

# Any Questions?

If you have any questions about sniper training, sniper technology or any sniping related issue:

[cybersniper@pobox.com](mailto:cybersniper@pobox.com)

Eduardo Abril de Fontcuberta

EU and African Director

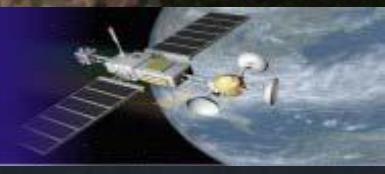
ICS EUROPE

Global Security

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*ICS Intelligence Counter Terrorism & Security*



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DE FONTCUBERTA

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EDUARDO ABRIL DE FONTCUBERTA

FROM 25 YEARS SNIPING AND COMPETITION SUCCESS

RATED  
AND WITH NEED-TO-KNOW  
KNOWLEDGE BASE

# What's new on Barrett rifles?

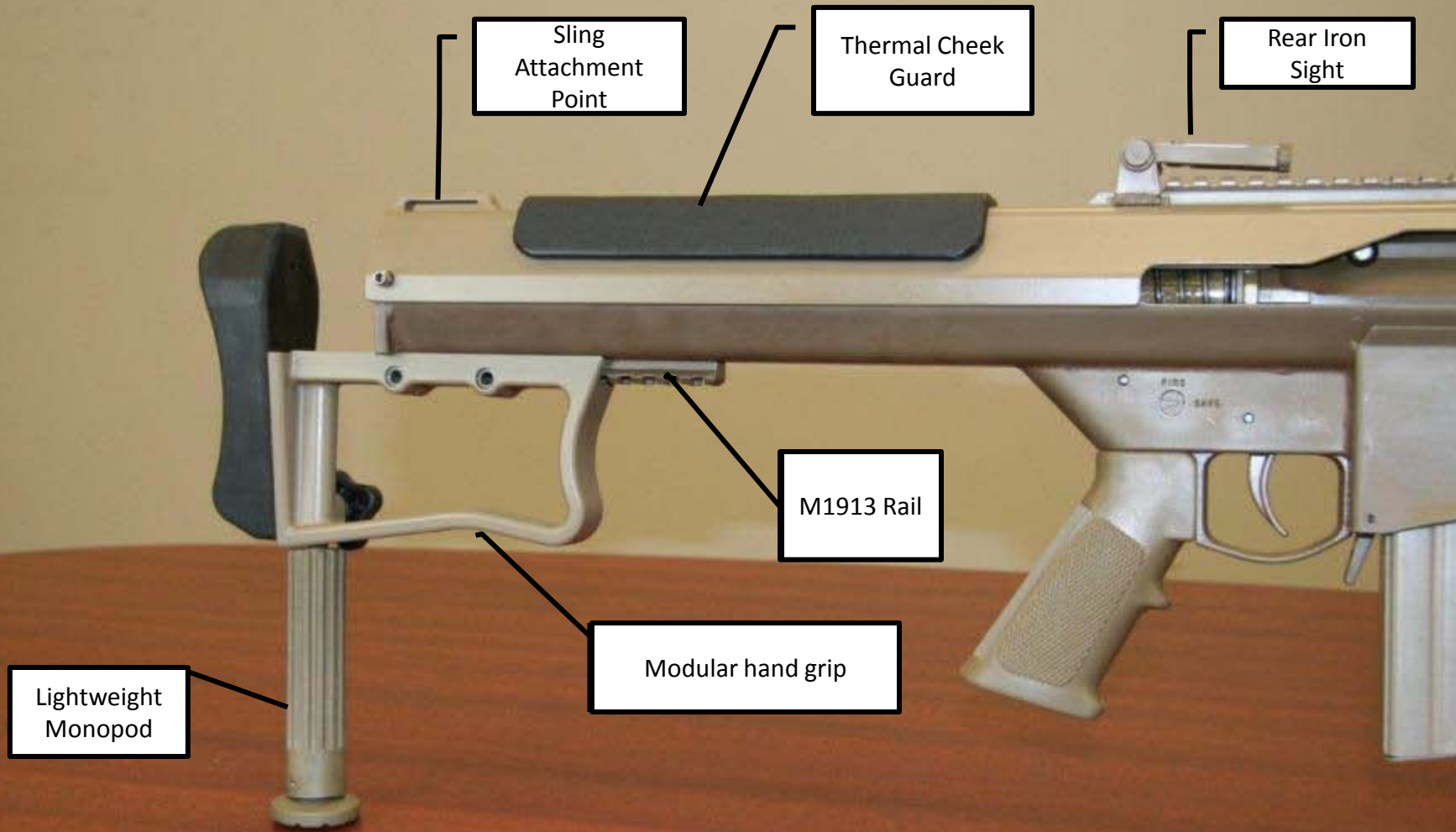
Details about the New M107A1 and MRAD models



# THE NEW M107A1



**BARRETT.**



Sling  
Attachment  
Point

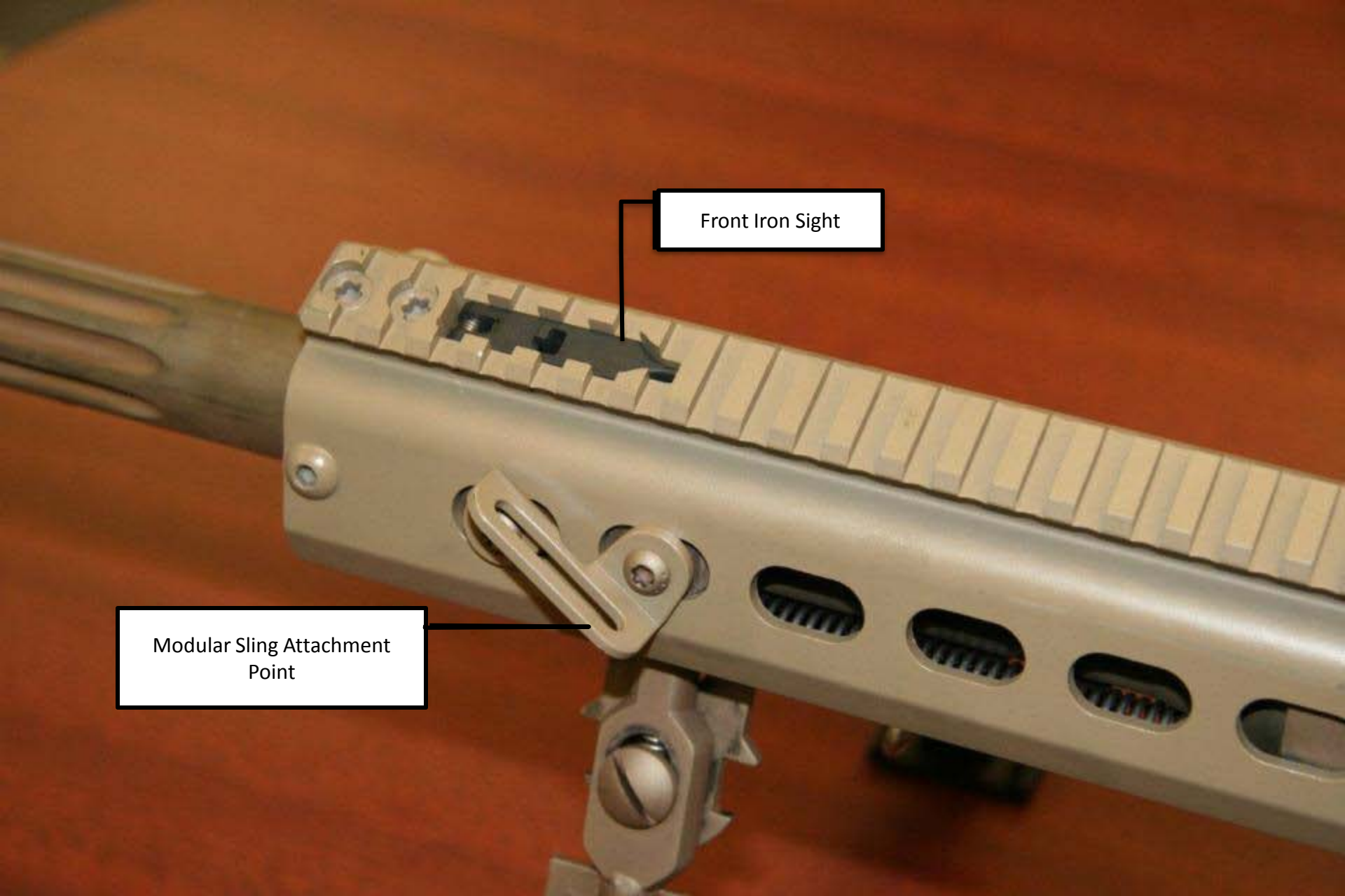
Thermal Cheek  
Guard

Rear Iron  
Sight

M1913 Rail

Modular hand grip

Lightweight  
Monopod



Front Iron Sight

Modular Sling Attachment Point

New Improved Feed Lip Design for Smoother Feeding

Old Magazine Feed Lip

10 Round Magazine with Cartridge Witness Marks



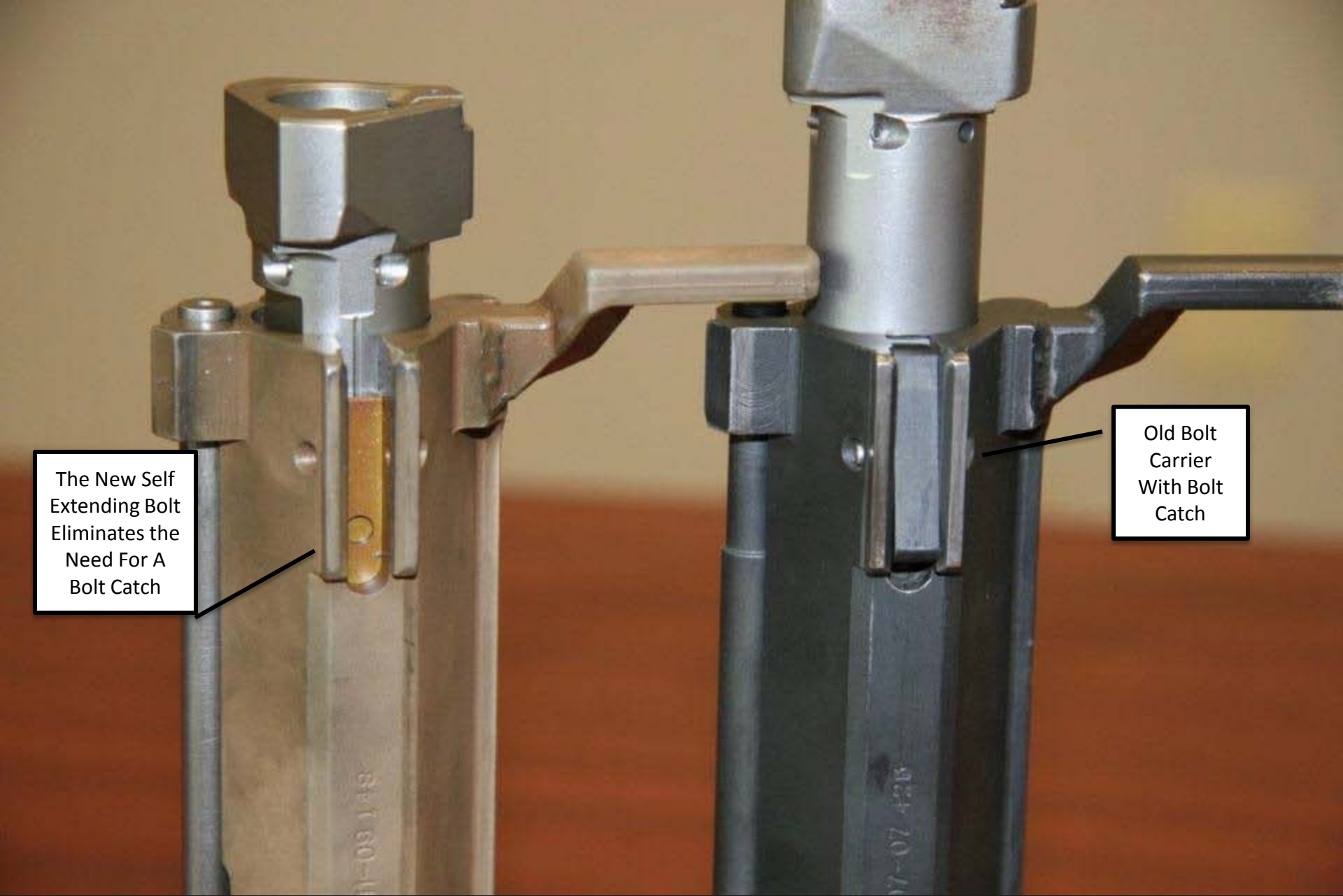
New Bolt Carrier with Self  
Extending Bolt, Corrosion  
Resistant Coating, and  
Less Parts for More  
Reliable Operation

Old Bolt Design



The Newly Designed Bolt Eliminates the Need for a Bolt Spring. The New Bolt is Manually Extended When the Accelerator Lever Pivots.





The New Self  
Extending Bolt  
Eliminates the  
Need For A  
Bolt Catch

Old Bolt  
Carrier  
With Bolt  
Catch

The New Self Extending Bolt is Lighter weight and Designed to Operate a Suppressed Weapon



The Old Heavier Bolt

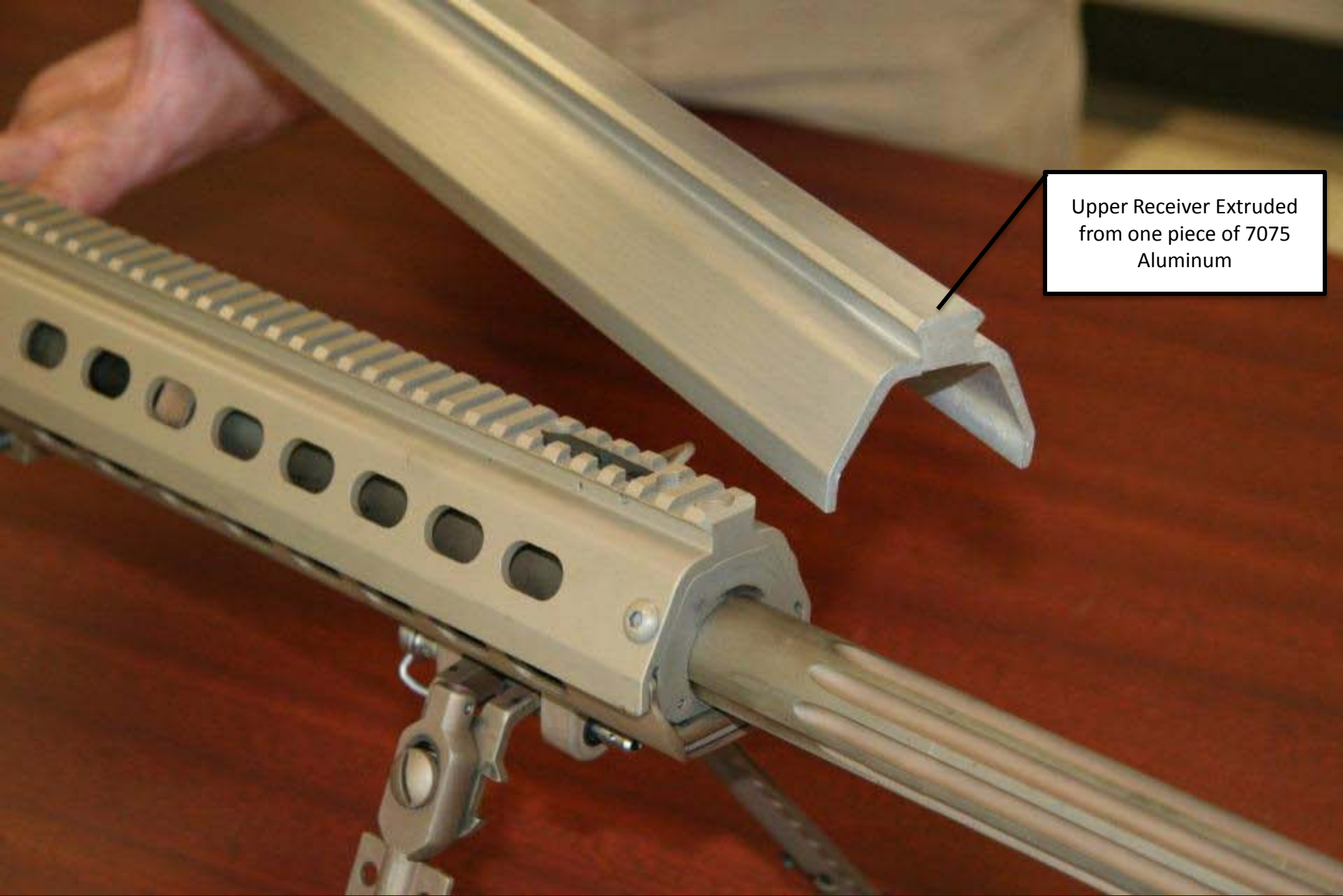


New Anti- Crash Buffer  
Designed to Operate  
with Suppressor




Old Buffer



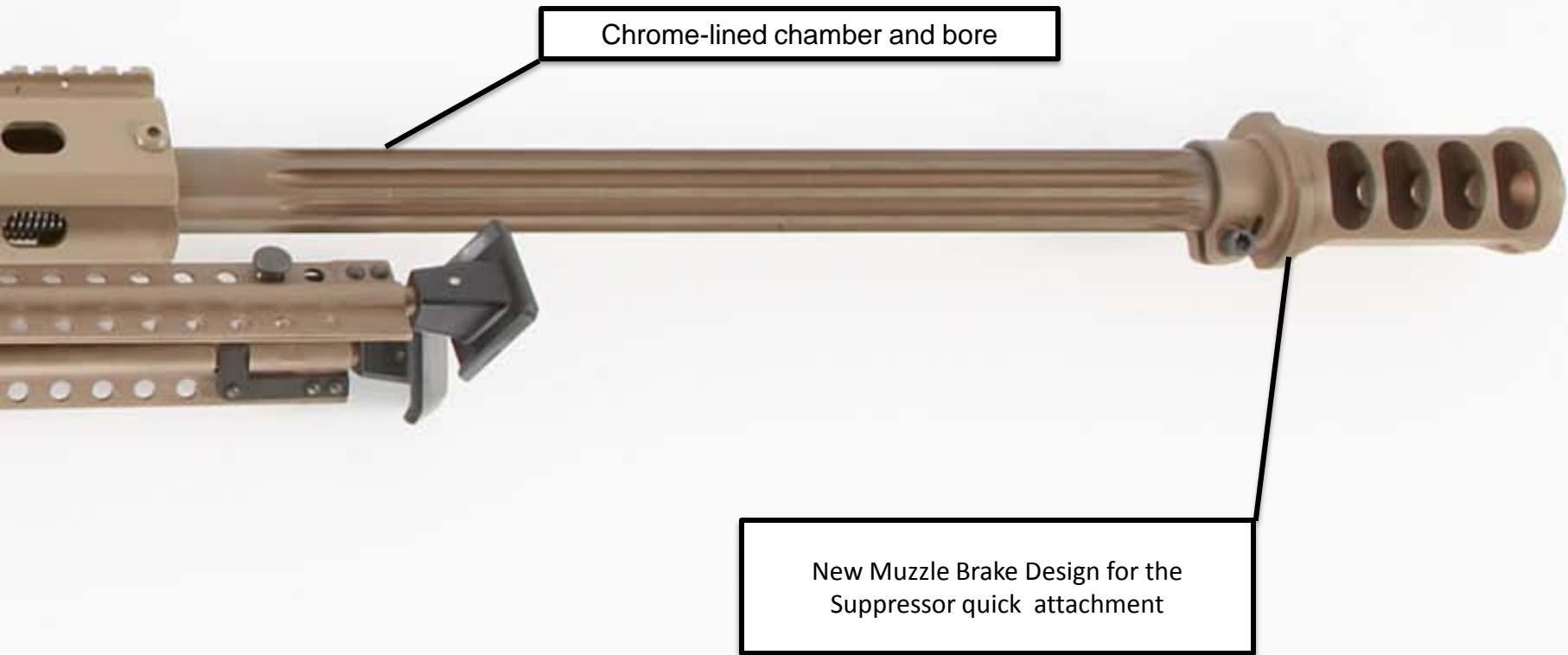


Upper Receiver Extruded  
from one piece of 7075  
Aluminum



27 MOA  
24 – Inch M1913  
Accessory Rail

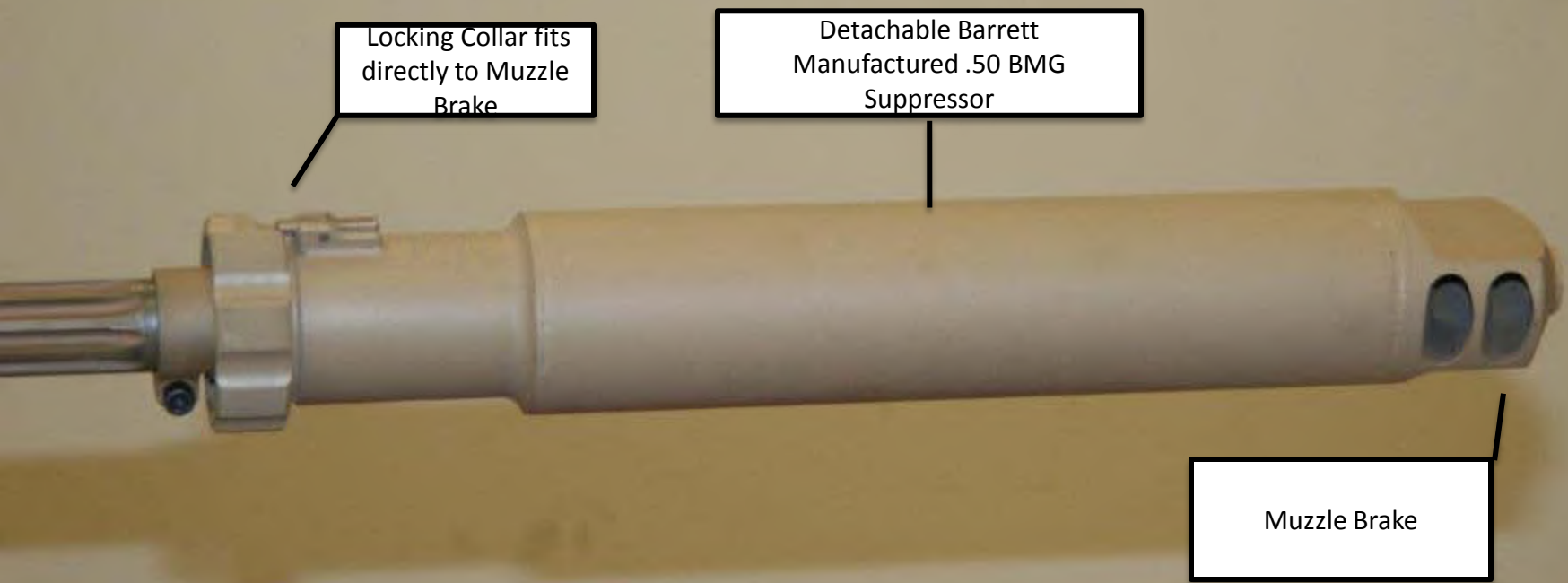
M1913 Accessory Rails



Chrome-lined chamber and bore

New Muzzle Brake Design for the  
Suppressor quick attachment





Locking Collar fits directly to Muzzle Brake

Detachable Barrett Manufactured .50 BMG Suppressor

Muzzle Brake



Lightweight Detachable Bipod with  
Modular Feet

# Summary

- Lighter weight
- Enhanced coating for better corrosion resistance and maintenance
- Redesigned Bolt, Bolt Carrier and Buffer to operate Suppressed
- Enhanced reliability and modularity



MRAD™





The Barrett MRAD is the world's finest purpose built modular sniper rifle.

# MRAD™

The MRAD is a Multi-Caliber Sniper Rifle available in the ammunition below.

.338 Lapua  
Magnum

.300 Winchester  
Magnum

7.62 x 51 mm NATO

**BARRETT.**



**The Folding Stock  
Locks the Bolt in place  
for Safety and easier  
transportation.**





**The Detachable Modular  
Bipod can be mounted  
anywhere on the M1913  
rail.**

The MRAD has a simple design for disassembly, maintenance and caliber conversion.



The Barrel can be removed easily by removing the two Torx bolts.





**BARRETT.**



**The Bolt is easily disassembled for maintenance and caliber conversion.**



**MRAD™**

Available in Multi-Role Brown



# MRAD™



Available in Black

**BARRETT**

# MRAD™

- Purpose built Sniper Rifle
- Modular design
- Folding Stock
- Adjustable Cheek Piece
- Adjustable Butt-stock
- Multi- Caliber
- Adjustable/Detachable Bipod
- Multiple colors available