



# POLICE ORDNANCE Company Inc.

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ARWEN® 37

## ARWEN Less Lethal System Overview

We sincerely thank you for your interest in the **ARWEN 37mm Less Lethal System**.

### A Brief Background:

We at Police Ordnance Company Inc. have supported the ARWEN Less Lethal System since the mid 1990's. We began by distributing the original Royal Ordnance ARWEN system in North America. In March of 2001 ARWEN was acquired by Police Ordnance Company Inc. from Royal Ordnance. Police Ordnance is now the sole owner, manufacturer and provider of the ARWEN Less Lethal System. ARWEN is a registered trademark of Police Ordnance Company Inc. All related sales, support and marketing of ARWEN products is the sole responsibility of Police Ordnance Company Inc.

The ARWEN Less Lethal Weapon System has expanded from the original ARWEN 37 and ARWEN ACE.

We now offer the ARWEN 37 (285mm 11.25 inch Barrel), ARWEN 37T Tactical (185mm 7.25 inch Barrel), and the ARWEN 37S Shorty (185mm 7.25 inch Barrel) no Buttstock models of the Multi Shot ARWEN 37.

The ARWEN ACE (285mm 11.25 inch Barrel) has expanded from the original model adding the ARWEN ACE-T Tactical (185mm 7.25 inch Barrel) and the ARWEN ACE-P Pistol (185mm 7.25 inch Barrel) no Buttstock models of the ARWEN ACE.

Police Ordnance proudly manufactures the ARWEN 37 Mark III Less Lethal System in Canada. We have enhanced many components using modern CNC manufacturing processes. Some of our enhancements are:

- ARWEN 37 Mark III Rotary Magazine Housing (Receiver) by adding an Accessory Mounting Base as an integral feature of the Rotary Magazine Housing. This interfaces with our new A37-AM4 Tactical mounts. The A37-AM4-R is specifically designed to mount the Trijicon ACOG Reflex Series of Sights. The A37-AM4-P is a Military Specification Picatinny Rail interface providing an interface to any device designed for the Picatinny system.
- ARWEN 37 Rifled Barrels are manufactured from the highest quality 6061T6 Aircraft Aluminum. ARWEN 37mm Barrels are rifled by a proprietary CNC Controlled ECM process. Barrels are then machined in CNC Lathes for their external profile. The Canadian ARWEN Barrels are producing 30% tighter groups at 25 meters using our "Made in Canada" AR-1 Impact Baton Munitions.
- ARWEN 37 Sprockets are CNC Machined from Solid 6061T6 (front) and 7075T6 (rear) Aircraft Aluminum.
- The Rear Tube on the ARWEN 37 is CNC machined from extruded 6061T6 Aircraft Aluminum Tubing. The Rear Tube has been shortened by 50mm (2 inches) as a result of user feedback. This was the number one modification requested for the original ARWEN 37 to accommodate current operational equipment requirements.



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- Other Aluminum components are also CNC machined from Solid 6061T6 Aircraft Aluminum.
- All Canadian manufactured ARWEN 37 Aluminum Components are Black Hard Anodized. We specify current Military Specification Anodize. The Anodizing Company we use is the only company certified to meet the US, Canadian and British MOD standards located in North America. This Military grade process ensures long term durability of aluminum components.
- The ARWEN 37 Trigger Return Spring is now manufactured from stainless steel as this component is not user serviceable. Other components are manufactured using stainless steel where practical. Stainless Steel offers enhanced durability and longevity.
- The ARWEN 37 employs propriety state of the art engineered resins (plastics) for non metallic components. These engineered resins contain glass fibers that add strength and durability. These components are molded using modern computer controlled injection molding equipment.
- The ARWEN 37 employs many other features and enhancements too numerous to mention here.
- Police Ordnance Company Inc. is committed to producing and supporting the leading edge Less Lethal System. The ARWEN 37 continues to be a dynamic system that will continue to be enhanced as operational requirements change.

## **ARWEN is a cost effective Less Lethal “System”**

ARWEN 37mm Less Lethal Munitions have recoverable components that when reused provide greatly reduced operator training costs. We also offer replacement components at reasonable prices. We encourage and support operator training. Our goal is to keep these training costs to a minimum. Reloading procedures are covered in the ARWEN Manual and during our Armourer and Operator Instructor Certification Courses.

New variants of ARWEN 37mm Less Lethal Munitions have and will continue to be developed to further enhance the versatility of the ARWEN Less Lethal System.

ARWEN 37mm Less Lethal Munitions are now available from our US manufacturing facilities to provide easy and rapid access of ARWEN Less Lethal Munitions for US Agencies. When a Purchase Order is placed with Police Ordnance Company Inc., US Agencies will receive their ARWEN Less Lethal Munitions shipped from our US manufacturing facility thus avoiding cross border import issues.

Police Ordnance offers Factory Armourer and Operator Instructor Certification. This certification is provided in a three day ARWEN Armourer and Operator Instructor Certification Course. Please visit our Web Site for course details and a growing list of Certified ARWEN Factory Armourer and Operator Instructor Candidates.



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## ARWEN is an extensive and versatile Less Lethal “System”

The ARWEN Less Lethal System is supported with the availability functional accessories.

The ARWEN Sight Mounting options such as the A37-AM4-P for the Trijicon Reflex family of Military Reflex Sights and the A37-AM4-P Picatinny Rail Interface for the EOTech Heads Up Display Military Sights. These systems offer superior target acquisition in difficult situations.

The ARWEN Tactical Sling offers a 3 point sling system to the ARWEN Less Lethal Weapons.

The ARWEN Reloading Kit provided the tools required to reload ARWEN AR-1 Impact Baton munitions for operator training. Recovering and reusing AR-1 components greatly reduces costs associated with operator training.

J.E.R.R.I.T. is our 3-D Judgmental Extended Range Reactionary Impact Target. It was specifically designed for training and maintaining ARWEN Less Lethal System Operator skills.

The ARWEN Cordura Semi Soft Case provides protection for the ARWEN Less Lethal System and is designed to offer rapid deployment of the ARWEN system. The ARWEN case also provides 28 pockets for easily accessible ARWEN Less Lethal munitions.

The ARWEN Less Lethal System is supported by industry leading Armourer and Operator Instructor certification Courses. These courses provide an in-depth understanding of the ARWEN system and Operator Instructor techniques. Courses are offered throughout the year.

The ARWEN Less Lethal System is supported with an extensive availability of Less Lethal munitions covering a multitude of operational scenarios. Presented here is a brief introduction to our ARWEN Less Lethal Munitions which are divided into seven “families”.

The **ARWEN AR-1 Impact Baton** Less Lethal Munitions are available is six variants.

- The **ARWEN AR-1** (Standard Energy) Impact Baton Round with a Muzzle Velocity of 74 meters per second (242 feet per second). The Baton is **green** with **black** rotating bands.
- The **ARWEN AR-1ME** (Medium Energy) Impact Baton Round with a Muzzle Velocity of 61 meters per second (200 feet per second). The Baton is **black** with white rotating bands.
- The **ARWEN AR-1RE** (Reduced Energy) Impact Baton Round with a Muzzle Velocity of 50 meters per second (164 feet per second). The Baton is **black** with white rotating bands.

The **green** and **black** batons are used for rapid and easy identification between Standard Energy and less than Standard Energy rounds.



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**ARWEN AR-1 Impact Batons** are manufactured using state of the art highest quality proprietary engineered resins. Our ARWEN AR-1 Batons are produced in computer controlled high pressure injection molding equipment. Our Rotating Bands are injection over-molded onto the AR-1 Baton body. This proprietary process produces a very high quality baton that is extremely rotationally stable and accurate. Materials used in the manufacture of our AR-1 Batons are extremely durable. Our batons can be recovered after firing for use in operator training scenarios. Recovering and reusing AR-1 components greatly reduce the cost of operator training.

**ARWEN AR-1-AIR** family of AIR cushioned Impact Batons offer an “AIR cushioned” Impact Baton. The ARWEN AR-1-AIR Baton is manufactured using our proprietary modular design baton that is shared with our ARWEN AR-3-VALVE Impact Batons. The ARWEN AR-1-AIR Baton is manufactured with a proprietary silicone cap that contains an “Air Chamber” which cushions the kinetic energy delivered to the target. The initial kinetic energy delivered is identical to the solid AR-1 Impact Baton that is then cushioned upon impact. The AR-1-AIR Impact Baton reduces the possibility of deep trauma.

**ARWEN AR-2** family offers an assortment of Pyrotechnic Irritant munitions for Anti-Riot and Public Order disturbance control scenarios. **These munitions are not designed for or to be used as direct impact projectile(s) on a human subject.** They are designed to deliver pyrotechnic smoke containing irritant to cover a range of distances separating the ARWEN Operator from agitated subjects. ARWEN AR-2 pyrotechnic munitions are available with either CS or CN Irritant pyrotechnic payloads. ARWEN AR-2 pyrotechnic munitions are available in single and multiple projectile variants. ARWEN AR-2 pyrotechnic munitions are color coded for rapid identification of the irritant payload. All ARWEN AR-2 pyrotechnic smoke is non toxic “Safe Smoke”.

**ARWEN AR-3-VALVE** family of “Valve” Impact Batons offers the ability to deliver a 2.75g powder payload directly onto a subject while impacting the subject with a 78g Impact Baton. The proprietary design of the AR-3-VALVE cap features a sealed chamber containing air and the powder payload. The force of the impact compresses the cap forcing the powder payload out of each of the eight “Valves”. The powder payload is instantaneously dispersed onto the target upon impact. The proprietary design of the “Valves” also direct a portion of the powder payload rearward creating a cloud of airborne powder within the target area.

**AR-3-VALVE** Batons deliver 2.75g of powder payload that is available in four variants: CS, OC, and CN irritant payloads. An INERT powder payload variant is available for operator training or as a “marking” round. Each ARWEN AR-3-VALVE Baton Cap is color coded for rapid identification of the type of powder payload contained within the baton cap. **CS** rounds have a **BLUE** cap, **OC** rounds have an **ORANGE** cap, **CN** rounds have a **RED** cap and the **INERT** rounds have a **YELLOW** cap.





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**ARWEN AR-4** family offers an extensive assortment of Pyrotechnic Screening munitions without irritant for Anti-Riot, Public Order disturbance control, and emergency rescue extraction scenarios. **These munitions are not designed for or to be used as direct impact projectile(s) on a human subject.** They are designed to deliver pyrotechnic smoke to cover a range of distances separating the ARWEN Operator from agitated subjects or in emergency rescue extraction scenarios. ARWEN AR-4 pyrotechnic munitions are available in single and multiple canister variants. The ARWEN AR-4 pyrotechnic munitions are available with white or colored smoke payloads. All ARWEN AR-4 pyrotechnic smoke is non toxic "Safe Smoke".

**ARWEN AR-5** family offers a Barricade Penetrating Projectile round. **These munitions are not designed for or to be used as a direct impact projectile on a human subject.** They are designed to deliver irritant powder payloads into contained structures in Barricaded Subject scenarios. ARWEN AR-5 Barricade Penetrating Projectile rounds are available with CS, OC, CN and INERT powder payloads. ARWEN AR-5 Barricade Penetrating munitions are color coded for rapid identification of the irritant payload.

**ARWEN AR-6** family of Muzzle Blast Rounds offers the ARWEN Operator to deploy an effective cloud of powder payload directly onto the subject. Currently available ARWEN AR-6 Muzzle Blast Rounds are:

- AR-6-OC Muzzle Blast Round with OC Irritant Powder.
- AR-6-CS Muzzle Blast Round with CS Irritant Powder.
- AR-6-P Muzzle Blast Practice Round with NON Irritant Powder.

**ARWEN AR-99** family of Launching Cartridges offers the ARWEN Operator the option of launching a vast assortment of commercially available Less Lethal munitions such as pyrotechnic grenades using the ARWEN Launching Cup accessory.

**37mm ARWEN Aluminum Cartridge Case** is manufactured and pressure tested to exacting quality control standards. These Aluminum Cartridge Cases can be recovered after firing for use in operator training scenarios. Recovering and reusing AR-1 components greatly reduce the cost of operator training.

**ARWEN Propellant Charge Cartridges** use custom manufactured brass cartridges to manufacture the ARWEN Propellant Charges. These brass cartridges are recoverable and rechargeable by qualified personnel to greatly reduce the cost of operator training.

We sincerely thank you for your interest in the ARWEN Less Lethal System. We are committed to providing your agency with leading edge Less Lethal products that will serve your agency now and well into the future. By implementing the ARWEN Less Lethal System, your agency will be joining an ever growing family of Police and Government Agencies deploying the ARWEN Less Lethal System in their day to day operations.

Respectfully,  Brian Kirkey, President