



SDI's 40MM Blunt Impact Projectile Ammunition uses a patented collapsible head and advanced engineering technology to provide superior pain compliance to previous less-lethal projectiles.

# SDI's FAMILY OF 40MM LESS-LETHAL AMMUNITION



## BIP STANDARD

Advanced collapsible head engineering provides maximum safety and superior pain compliance



## MARKING POWDER

Colored powder temporarily marks target upon impact for psychological deterrent effect



## MARKING LIQUID

Colored liquid semi-permanently marks targets, allowing for future apprehension



## MALODORANT

Noxious odor released upon impact, thus marking subjects and deterring others



## OLEORESIN CAPSICUM

OC powder irritant released upon impact and dissipates, not affecting bystanders



## CS POWDER

Micro-pulverized irritant powder that causes a burning sensation in the mucous membranes



## FORENSIC MARKING

Unique and invisible forensic solution marks targets with a designated coding system



## INERT POWDER

Dispersing an inert powder upon impact, this non-toxic powder is commonly used for training



## SINGLE-USE TRAINING ROUND

Simulates the ballistics of the BIP, allowing for cost-effective training and certification



## RE-LOADABLE TRAINING ROUND

Pre-loaded casings with an aluminium fixture provides for effective re-use, available in 50 or 250 kits



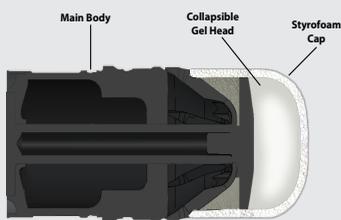
## PATENTED TECHNOLOGY

The 40MM BIP is a blunt impact kinetic energy round. The patented technology involves an internal energy absorption system, as well as a collapsible nose.

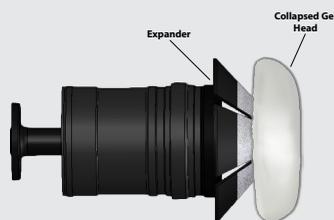
This nose "mushrooms" upon impact while absorbing a portion of the kinetic energy and dispersing the inertia (causing less injury).

Additionally, by spreading the impact of the nose over a larger surface area, greater pain compliance is achieved as more sensory nerves on the target will be stimulated, thus increasing the pain reception.

BIP Cross-Section



BIP Upon Impact



## SAFETY

Both the standard and payload delivery system BIPs have an effective minimal optimal range of 6.5 feet (2 m), though are operational at point blank.

Over a longer range, unlike SDI's BIP, current marketplace ammunition's accuracy consistently degrades over distance.

Many of SDI's competitors' projectiles commonly tumble, risking injury to bystanders, unintentional injury to the upper body and risk of injury if an un-cushioned portion of the projectile strikes the target.

BIP Safety Target Areas



**BIP rounds should not be fired at a subject's head.**

SDI recommends shooters target arms and legs.

It is the shooter's responsibility to use the rounds safely and when justified.

## ACCURACY

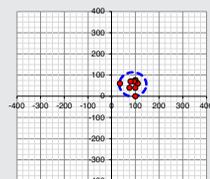
The BIP has been designed utilizing ballistic technologies, which allow for consistent in-flight stability throughout an almost flat trajectory.

These rounds have repeatedly shown effectiveness and reliability at ranges up to 262 feet (80 m) on human targets and up to 394 feet (120 m) for large vehicles (for payload marking purposes).

They are also the preeminent ammunition in vehicle window breaching and area denial.

### Biokinetics

Target Distance: 10 m  
 Projectile: 40mm Blunt Impact Projectile (BIP)  
 Manufacturer: Security Devices International Inc.  
 Condition: Ambient  
 Range: Stitsville Shooting Range  
 Reference Spec.: D13-01: Accuracy and Precision Test Procedure (Non-Lethal Kinetic Projectiles)



## SPECIFICATIONS

Weapons System	All 40 mm Launchers
Diameter	1.57 in. (40 mm)
Length	3.98 in. (101 mm)
Weight	1.79 oz. (51 g)
Min. Operational Range	6.5 ft. (2 m)
Max. Operational Range	262 ft. (80 m)
Muzzle Velocity	290 ft./sec. (88.4 m/sec.)
Kinetic Energy (KE) at Muzzle	208 J (151 ft.-lb <sub>f</sub> )
Hazard Classification	1.4 S
Number per Box	64
Boxes per Pallet	25