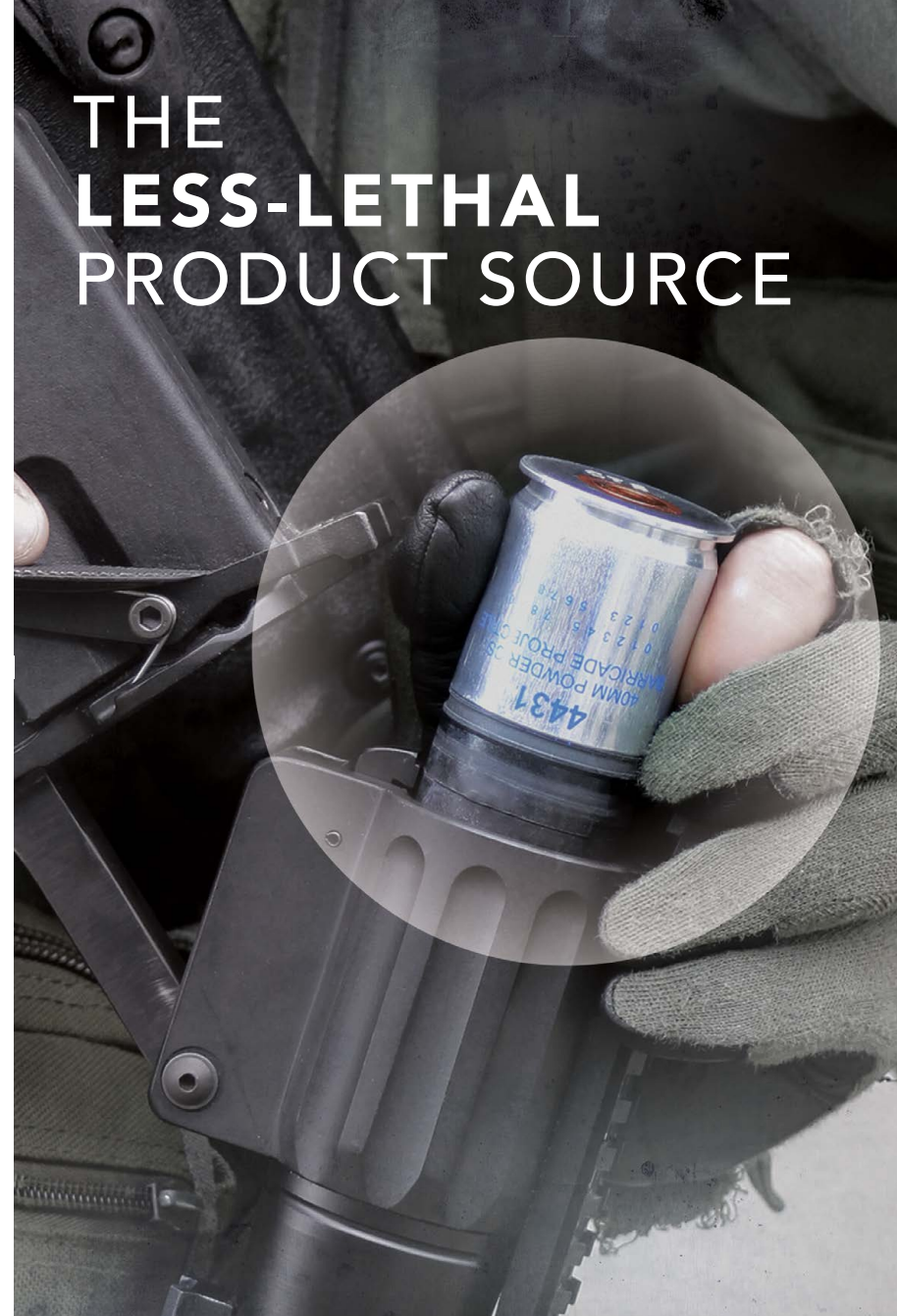
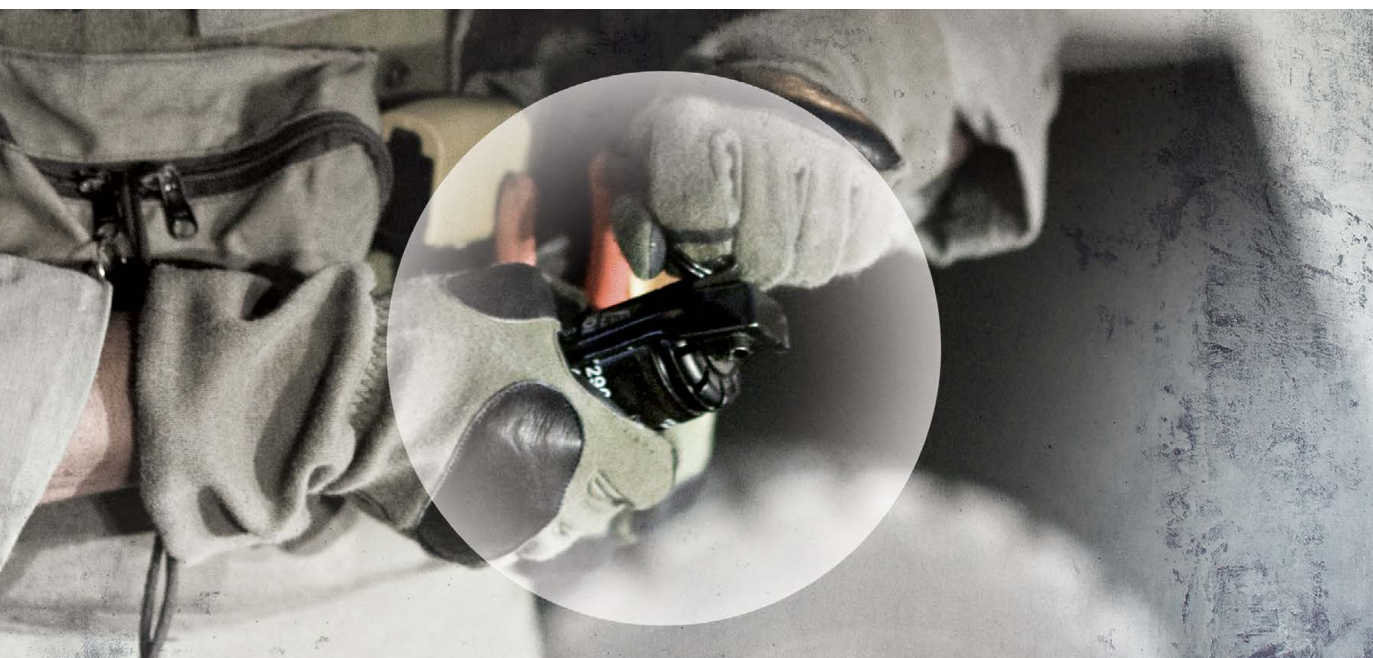




THE LESS-LETHAL PRODUCT SOURCE



CSI
COMBINED
SYSTEMS®

CTS
COMBINED
TACTICAL SYSTEMS
CTS
HANDCUFFS + RESTRAINTS®

CTS
TRAINING
INSTITUTE
PENN ARMS®

PRODUCT CATALOG

When it comes right down to it, mission objectives drive the decision to apply force and to what degree. A successful mission outcome depends on effective tactical execution by well-trained operators, including the correct use of less-lethal force options. To de-escalate violent situations, success is dependent upon choosing the correct force option for the mission.

Our purpose at CSI is to develop and manufacture less-lethal force options to give you the right tools for your mission, for you to count on and use with confidence at the most critical moment.

THIS CATALOG FOCUSES ON YOUR MISSION:

- Our products are grouped within the most appropriate mission chapter and where they are most likely to help achieve your mission objectives.
- Since many of our less-lethal products have multi-mission roles, icons representing each mission have been created to assist in the correct product selection. (See Icon Legend on adjacent page)
- To reinforce application of force decisions in your mission, CSI has developed a proprietary less-lethal force model that we call the “Degree of Force – Consequence” or DEFCON. This model emphasizes the escalating and de-escalating, and overlapping nature of less-lethal force. Each linked degree in the DEFCON model is also represented by a unique icon.

I · N · D · E · X

INTRODUCTION	2.3
SWAT	4.5.6.7
Products: Aerosols, Indoor Irritant Munitions, Flash-Bangs, Impact Munitions, Fire Suppression Unit, Door Breaching Rounds and Accessories	
PUBLIC ORDER UNIT	8.9.10.11.12.13
Products: Outdoor Irritant Grenades and Projectiles, Smoke Munition, High-Volume Aerosols, Impact Munitions, Sting-Ball Grenades, Multi-Effect Grenades, and Warning Munitions	
MILITARY PEACE KEEPER	14.15.16.17
Products: Non-Lethal Tube Launch Munitions Systems, Warning Munitions, Pen Flares, Impact Munitions, Thermite Grenade, Heavy Door Breaching Rounds	
PATROL	18.19
Products: Impact Munitions, Duty Aerosols, Pocket Size Irritant and Smoke Grenades	
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For additional product information regarding all CSI product lines, including CTS Thompson Handcuffs & Restraints, please call 724-932-2177.

MISSION PROFILES

SWAT



Munitions, aerosols, and launchers for law enforcement and corrections tactical teams addressing barricaded subjects, high-risk warrants, hostage rescue, and cell extractions.

Public Order Unit



Munitions, aerosols, and launchers for law enforcement, corrections and military units responding to civil disorder and suppressing riots.

Military Peace Keeper



Munitions, aerosols, and launchers for war fighters and military peace keepers whose missions may involve responding to civil disorder, the suppression of riots, force protection, and manning checkpoints.

Patrol



Munitions, aerosols, and launchers for law enforcement patrol officers responding to disturbances, to deter resistance during arrest and as an option when confronted with a possible "suicide-by-cop" situation.

MAX RANGE:

Signifies the optimum engagement distance for the greatest less-lethal effect.

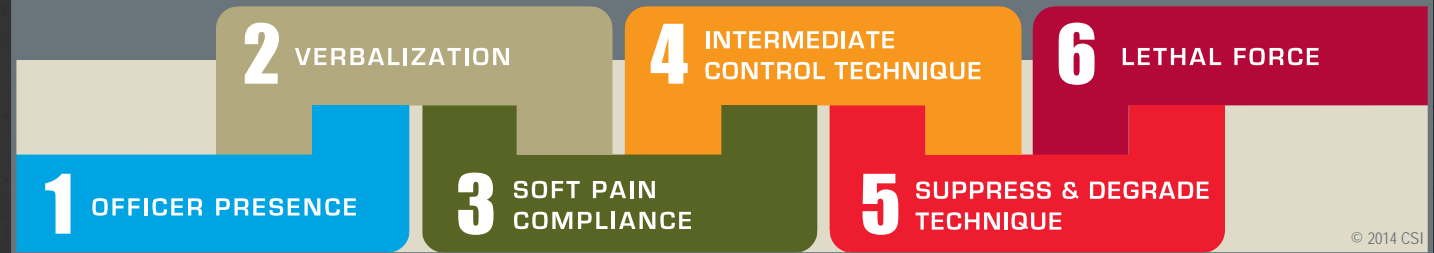
MAX RANGE
50

Indicates **distance**
in **Meters**

MAX RANGE
50³

Indicates **volume**
in **Cubic Meters**

CSI Less-Lethal DEGREE OF FORCE – CONSEQUENCE (DEFCON)TM



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DEFCON is an escalation of force model for CTS less-lethal munitions. The DEFCON model is used for training and as a guide for end-users when selecting a reasonable CTS less-lethal force option and correlating it with a probable consequence on a human subject. The DEFCON model also emphasizes the escalating and de-escalating capability of CTS's less lethal force options.

Physical Presence (DEFCON 1) – Depending on the circumstances the mere presence of a uniformed police officer is sufficient to restore order or gain compliance. It may be one officer dealing with a single subject or a "show of force" by the coordinated actions and appearance of many officers, such as the case of a crowd management team or tactical response unit.

1
OP

Verbalization (DEFCON 2) – Verbal commands or warnings in conjunction with **Physical Presence** are often sufficient to achieve the desired behavior of a person or crowd. One's choice of words is important. Commands can also be delivered with increasing intensity to communicate the need for compliance.

2
V

Soft Pain Compliance (DEFCON 3) – Less lethal force correlating with the application of limited volumes of OC or CS sprays. These options are applied directly to a non-compliant subject(s) eyes and face who may or may not be combative. The effect of **Soft Pain Compliance** is primarily pain and discomfort. **Verbalization** is used concurrent with or immediately after the application of force.

3
SPC

Intermediate Control Technique (DEFCON 4) – Less lethal force correlating with the use of low-energy impact weapons and high volumes of irritant smoke emitted from grenades and projectiles and affecting air spaces. The application of this force option may be used to dislodge a person from an enclosure, disperse crowds or deny areas. **Intermediate Control Techniques** generally follow an obvious **Physical Presence** and may or may not be preceded by **Verbalization**.

4
ICT

Suppress & Degrade Technique (DEFCON 5) – Less-lethal force correlating with the use of high-energy impact munitions and low-explosive devices. These devices can be used to target individuals or groups and, in certain scenarios, can be used to temporarily distract dangerous subjects, momentarily suppress violent behavior, or degrade one's will to resist.

5
SDT

Lethal Force (DEFCON 6) – The greatest amount of force generally correlating with the use of a firearm and justified when there is an imminent threat of serious bodily injury or death to the officer, soldier, or innocent third person.

6
LF



Munitions, aerosols, and launchers for law enforcement and corrections tactical teams addressing barricaded subjects, high-risk warrants, hostage rescue, and cell extractions.

SWAT



FLASH-BANGS

Product: 7290M, 7290

Description: Top and bottom venting devices available in Mini-Bang® and full size. Both produce a thunderous load bang and intense bright light. These devices will momentarily distract dangerous suspects during vehicle assaults, hostage rescue, room entry and other high-risk arrest situations.



40MM CS BARRICADE PENETRATOR

Product: 4330(CS), 4340(OC), 4431(CS), 4441(OC)

Description: 40MM non-burning powder and liquid filled projectiles penetrate intermediate barriers and deliver irritant agent into an adjacent room. Spin stabilization affords great accuracy from extended ranges.



MULTI-BANGS

Product: 7290-2, 7290-9

Description: The CTS Multi-Bang family features the low-roll DoubleBang™ and the extended effect 9-Bang. Top and bottom venting, non-bursting, non-fragmenting devices performing with high reliability and incorporating CTS superior fuze components with the patented and US Army adopted Confidence Clip™ and pin shroud.



OC VAPOR GRENADE

Product: 6340 (OC), 6330 (CS), 6343 (OC-CS)

Description: Unique grenade delivering an invisible vapor and rendering an intense respiratory affect. Provides best results when used indoors and requires no personal decontamination.





SWAT

40MM FOAM BATON

Product: 4557

Description: 40MM spin stabilized, point control impact munition delivering extreme accuracy and consistent impact energy. The Foam Baton will momentarily incapacitate violent and non-compliant subjects.



12GA HEAVY DOOR BREACHER

Product: 2577

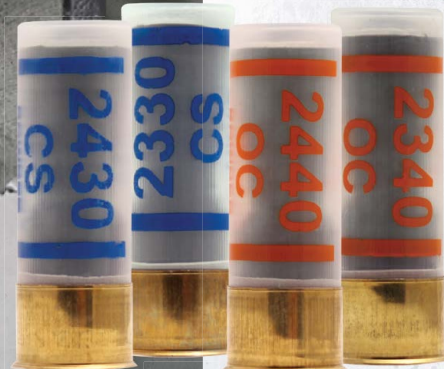
Description: 12GA 24-7 Breacher. An enhanced 12 gauge heavy weight material compressed and encased in plastic. The 24-7 Breacher enhances breaching capability from greater stand-off distance with minimum collateral damage.



12GA CS & OC BARRICADE PENETRATOR

Product: 2330 (CS), 2340 (OC), 2430 (CS), 2440 (OC)

Description: 12GA non-burning powder and liquid filled projectiles penetrate intermediate barriers and deliver irritant agent into an adjacent room. Fin stabilization affords accuracy from extended ranges.





52 SERIES BAFFLED CS GRENADE

Product: 5230B (CS)

Description: Pyrotechnic grenade designed for indoor use delivering a maximum amount of irritant smoke throughout multiple rooms with minimal risk of fire.



54 SERIES FLAMELESS EXPULSION OC GRENADE

Product: 5440 (OC), 5430 (CS)

Description: Large diameter flameless grenade posing no risk of fire and discharging a large powder payload instantaneously through multiple emission ports. Provides the best results when used indoors.



MK-9 FIRE SUPPRESSION FOAM

Product: 1981

Description: Fire Suppression Foam is environmentally friendly and easy to clean up. Fitting conveniently in any MK-9 pouch, this unit enhances safety during the use of low-explosive devices by SWAT teams.



mission critical:

Breaching rounds in both standard and heavy breaching material are intended for door breaching only and are lethal if fired directly at a person.

12GA STAND-OFF DEVICE

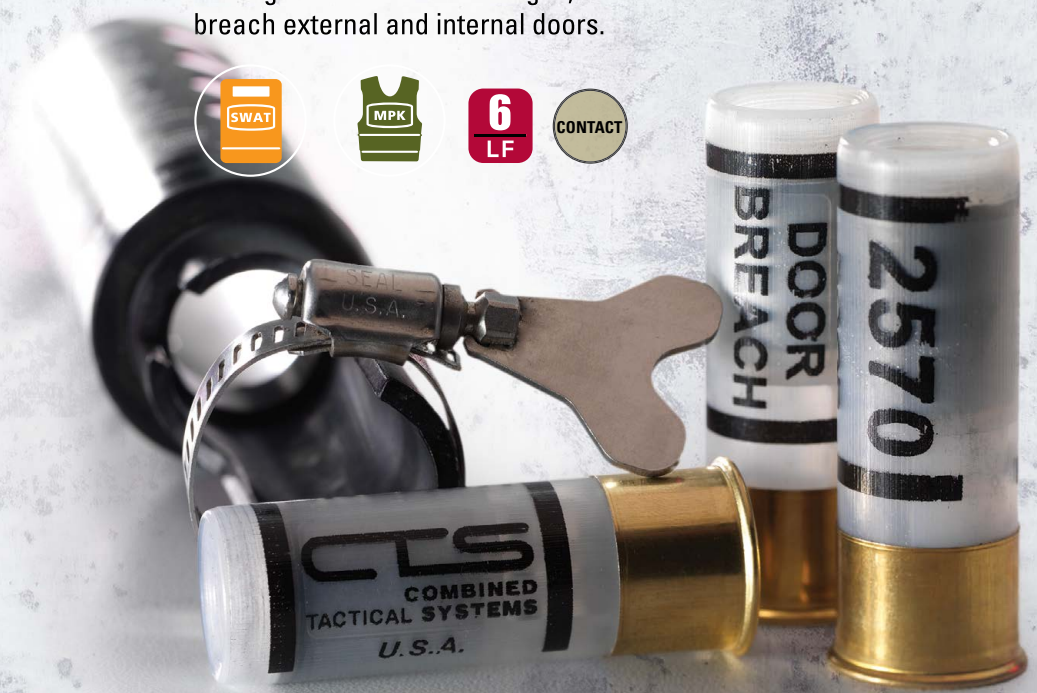
Product: LC-8

Description: Attaches to shotguns with low profile front sights and is used to enhance speed, precise shot placement and safety during the use of breaching rounds.

12GA DOOR BREACHERS

Product: 2570 (Zinc)

Description: 12GA frangible slug to disrupt locking mechanisms and hinges, defeat and breach external and internal doors.





PUBLIC ORDER UNIT

Munitions, aerosols, and launchers for law enforcement, corrections and military units responding to civil disorder and suppressing riots.



62 SERIES CS GRENADE

Product: 6230 (CS)

Description: Pyrotechnic canister grenade emitting smoke through multiple emission ports for 30 to 40 seconds. May be launched or hand thrown.



62 SERIES OUTDOOR GRENADE - COLORED SMOKE

Product: 6210 (R,G,Y)

Description: White and colored outdoor smoke grenades are used for obscuring tactical movement, signalling or marking a landing zone.



mission critical:

The reliability of grenade fuzes is critical for public order units. CSI fuzes have a 1.5 second delay with a tolerance of +/- 0.3 seconds.

MK-9 OC AEROSOLS

Product: 1922 (OC Foam), 1904 (Inert Gel), 1923 (OC Fog), 1911 (OC Stream)

Description: The larger MK-9 units have increased volume and effective ranges, making them better suited for crowd management, but still small enough to be carried on a duty belt.

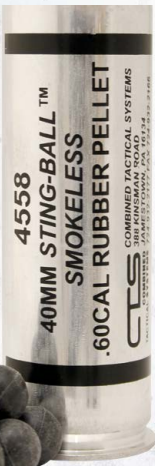




37MM SUPER-SOCK® BEAN BAG

Product: 3581

Description: 37MM patented Super-Sock® provides the best point control accuracy of any other munition in this caliber. Will momentarily incapacitate violent non-compliant subjects.



40MM STING-BALL .60 CALIBER RUBBER PELLETS

Product: 4558

Description: 40MM crowd dispersal cartridge containing a payload of .60 caliber stinging pellets. To be fired low into an aggressive crowd.



12GA HIGH VELOCITY STING-BALL .31 CALIBER RUBBER PELLETS

Product: 2553

Description: 12GA crowd dispersal cartridge containing a payload of .31 caliber stinging pellets. To be fired low into a crowd.





12GA FIN-STABILIZED RUBBER SABOT

Product: 2551

Description: 12GA point control cartridge is a soft rubber projectile delivering a stinging impact effect. It is an aerodynamic projectile with fins for stabilization.



92 SERIES JET LITE CS GRENADE

Product: 9230JL (CS)

Description: Rapid discharge irritant and smoke grenade in the form of a rubber ball. May be hand-thrown or launched out to 100M.



94 SERIES TEAR-BALL OC GRENADE

Product: 9440 (OC), 9430 (CS), 9410 (Inert)

Description: A multi-effect grenade with a loud blast, bright flash and an the instantaneous dispersion of a cloud of irritant powder.



mission critical:

Sting-ball grenades can be deployed during outdoor riots or indoors for correctional disturbances.

The number of different effects generated by the grenade produce both physical and psychological effects.



95 SERIES STING-BALL GRENADE (W/ OR W/O IRRITANT)

Product: 9590, 9593 (CS), 9594 (OC)

Description: Multi-effect grenades with a loud blast, bright flash and dispersion of stinging .31 caliber pellets. Can also be configured to disperse an instantaneous cloud of irritant powder.





37MM CS OUTDOOR MULTI-5 PROJECTILE

Product: 3235 (CS)

Description: A short-range CS cartridge delivering 5 separate sub-munitions. Used outdoors, it will disperse crowds, deny areas and prevent violence.



4
ICT

MAX RANGE
73



37MM CS INDOOR/OUTDOOR MUZZLE BLAST

Product: 3440 (OC), 3430 (CS)

Description: A cartridge designed to blast irritant powder directly from the muzzle toward a hostile crowd or individual.



3
SPC

MAX RANGE
9



37MM CS OUTDOOR SHORT RANGE PROJECTILE

Product: 3230 (CS)

Description: A short-range CS cartridge delivering a single munition. Used outdoors, it will disperse crowds, deny areas and prevent violence.



4
ICT

MAX RANGE
73



PUBLIC ORDER UNIT



40MM IMPACT+™ FRANGIBLE MARKING

Product: 4550 (Marking), 4556 (OC), 4530 (CS)

Description: 40MM multi-effect munition delivering greater energy on the target with extreme accuracy and simultaneously dispersing a cloud of irritant or marking powder.



mission critical:

Aerial flash-bangs can serve as a warning signal to crowds, or warn of impending force by public order units.



40MM AERIAL FLASH-BANG (WARNING MUNITION)

Product: 4090-1

Description: 40MM aerial flash-bang producing a loud bang, and 6 million candela of flash. Fired above a crowd, it will enhance a units escalation of force capabilities during outdoor riot situations.



MK-46HE HIGH EFFICIENCY AEROSOL DISPENSER

Product: 1401HE, 1231R (CS Refill), 1111R (OC Refill)

Description: Offering superior performance and three simple steps to reload and recharge the unit in the field. To reload the system, the officer has to simply refill the tank, reset the nozzle head, and thread a recharging cartridge into the receiver. Along with the easy rapid recharge feature, the stream extends to 40 feet (12.2 meters), is safer to use, and can hold up to 46 oz. of liquid, and is capable of over twenty 1-second bursts.



MK-46/MK-21 RECHARGE SET

Product: 1203A

Description: The MK-21/46 aerosol recharge set attaches to a nitrogen tank. The system is easy to use and enables operators to safely refill and recharge these high-volume units.



Munitions, aerosols, and launchers for war fighters and military peace keepers whose missions may involve responding to civil disorder, the suppression of riots, force protection, and manning checkpoints.

MILITARY PEACE KEEPER



40MM VENOM® V-TAC

Product: VENOM® V-TAC

Description: Lightweight, high capacity non-lethal tube launch munition system. Fully capable for mounted use on vehicle hitch receivers, remote weapons stations, or fixed positions for force protection.



NLTLMS
Non Lethal Tube Launched
Munition Systems

VENOM® FLASH-BANG MULTI-4

Product: V4094

Description: A high-payload munition tube launching 4 flash-bangs simultaneously. Provides distraction and warning capability for extended durations during day and night operations.



VENOM® FLASH-BANG EXTENDED RANGE WARNING MUNITION (ERWM)

Product: V4090-10

Description: A single spin stabilized flash-bang projectile with greater than 4 million candela of light and 170 dB. Provides a single warning/determination of intent capability to extended ranges.



VENOM® CS MULTI-7

Product: V4237 (CS), V4217 (Smoke)

Description: A high-payload tube with 7 irritant or smoke munitions providing the capability to deploy heavy volumes of irritant smoke over a broad area within seconds.



VENOM® CS SUPER LONG RANGE

Product: V4230

Description: A single spin stabilized CS smoke projectile with a capable of smoke delivery to extended ranges.





PEN FLARE KIT DISTRESS SIGNAL AND WARNING FLARE

Products: Model 110 (Green), Model 80 (Red), Model 142 (White)

Description: A lightweight compact kit consisting of a hand held pen launcher and colored signal flares. Used as a distress signal or as a warning munition to approaching vehicles and persons.



12GA 24-7 HEAVY DOOR BREACHING ROUND

Product: 2577

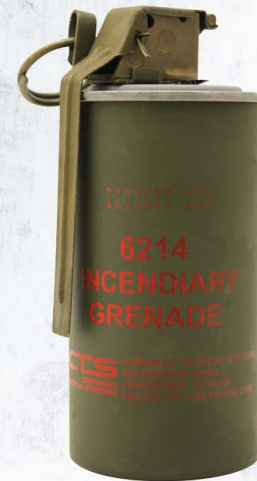
Description: 12GA non-toxic, heavy frangible slug to disrupt locking mechanisms and hinges of external and internal doors comprised of hardened material.



12GA WARNING MUNITION

Product: 2590-1 (Flash-Bang),
2590T-1 (Flare Bang)

Description: Developed for the USMC, 12GA aerial warning munition produce a bright flash and loud bang. Fired at approaching vehicles or watercraft to warn or determine intent. A variation that includes a flare is also available.



62 SERIES THERMITE INCENDIARY GRENADE

Product: 6214

Description: Not to be used as an offensive weapon against humans. This is a pyrotechnic grenade producing intense thermal and incendiary effects. Capable of destroying weapon caches, bunkers, and vehicles.



40MM AERIAL FLASH-BANG EXTENDED RANGE WARNING MUNITION

Product: 4090-3

Description: 40MM aerial flash-bang producing an intense bang and bright flash. Can be fired above a crowd during a riot, at approaching vehicles to determine intent, or to hail and warn marine vessels.





NLTLMS
Non Lethal Tube Launched
Munition Systems



**38MM VENOM® 30-TUBE
NLTMS**

Product: V3037

Description: Developed for the USMC, a 30-tube, lightweight, high capacity 38MM grenade launcher. For mounted use on vehicles, tripod mounts, and static installations.



**VENOM® FLASH-BANG
MULTI-4**

Product: 4094

Description: A high-payload munition tube launching 4 flash-bangs simultaneously. Provides distraction and warning capability for extended durations during day and night operations.



VENOM® CS MULTI-7

Product: 4237 (CS), 4217 (Smoke)

Description: A high-payload tube with 7 irritant or smoke munitions providing the capability to deploy heavy volumes of irritant smoke over a broad area within seconds.





Munitions, aerosols, and launchers for patrol officers responding to disturbances, to deter resistance during arrest and as an option when confronted with a possible "suicide-by-cop" situation.

PATROL

12GA SUPER-SOCK® BEAN BAG



Product: 2581

Description: 12GA patented Super-Sock® is first in its class providing the point control accuracy and consistent energy to momentarily incapacitate violent non-compliant subjects.



37MM MULTI-3 FOAM BATON



Product: 3551

Description: 37MM crowd dispersal cartridge can serve a dual purpose for crowd dispersal or close range point control. Contains a payload of 3 soft foam batons, approximately 10 grams each.



82 SERIES CS GRENADE



Product: 8230 (CS), 8210 (Smoke & Colored Smoke)

Description: Small diameter pyrotechnic irritant smoke grenade for outdoor use to disperse crowds. Emits smoke for up to 30 seconds and is small enough to be carried in a pocket. Also available in colored smoke. Can be hand thrown or launched.



mission critical:

The accuracy and consistency of the patented Super-Sock® is made possible by the flexible material in the tubular bag. Super-Sock® provides 10CM or better groups at 18M.

MK-4 OC LEVEL 2 GEL

Product: 1424

Description: OC Gel projects a firm stream with accuracy and minimal blow back and risk of cross contamination. Should be sprayed directly into the eyes of a non-compliant suspect.



MK-3 OC LEVEL 1 STREAM

Product: 1308

Description: OC stream for law enforcement patrol or corrections officers, sprayed directly into the eyes, is a commonly used force option to gain compliance or subdue potentially violent subjects.



PENN ARMS®

Penn Arms launchers are used by law enforcement, corrections and military worldwide. The single and multi-shot models are lightweight and versatile for any mission. Easily employed and fired from standing, kneeling or prone positions, our launcher models accept a variety of ammunition up to 203mm.

The launcher, receiver, grip and accessories have a non-reflective dull black, corrosion resistant finish. All of Penn Arms launchers are intuitively designed with the ultimate mission in mind.





40MM SINGLE LAUNCHER FOLDING COLLAPSING STOCK

Product: L140-4

- **40MM**
- **Single-Shot Break Open Design**
- **DAO Trigger**
- **30.4 CM Barrel Length (12")**
- **Overall Length**
 - Folded 44.4 CM (17.5")**
 - Collapsed 66 CM (26")**
 - Extended 76.2 CM (30")**
- **2.75 KG Unloaded (6.1 lbs)**
- **Rear Leaf Blade, Front Bead Sight**
- **Rail Set at 3, 6, and 9 O'Clock**



40MM PUMP MULTI-LAUNCHER FIXED STOCK

Product: P540-3

- 40MM
- Multi-Shot Break Open Design
- DAO Trigger
- 27.9 CM Barrel Length (11")
- Overall Length
Collapsible Stock
72.3 to 82.5 CM (28.5" – 32.5")
- Weight Unloaded 3.94 KG Unloaded (8.7 lbs)
- Rear Ghost Ring Aperture, Front Bead Sight
- Rail System



PENN ARMS®



"WARNING"
SAFETY MUST BE OBSERVED DURING
LOADING AND UNLOADING
SEE OWNER'S MANUAL
FOR COMPLETE INSTRUCTIONS
AVAILABLE FROM
PENN ARMS
BEFORE YOU
USE THIS WEAPON



EXTENDED LIST OF PRODUCTS AND MODEL NUMBERS

CTS AEROSOL DEFENSE SPRAYS

Model No.	Description	Mission	DEFCON	Range (M)
1318	MK-3 Level 1 Omni-Stream™ - 360° Performance	P	SPC	3.6
1411	MK-4 Level 1 OC Stream (0.18 MC, 3.75 oz)	P	SPC	3.6
1911	MK-9 Level 1 OC Stream (0.18 MC, 12.5 oz)	P, PO, S	SPC	4.5
1321	MK-3 Level 2 OC Stream (0.67 MC, 1.5 oz)	P	SPC	3.6
1421	MK-4 Level 2 OC Stream (0.67 MC, 3.75 oz)	P	SPC	3.6
1621	MK-6 Level 2 OC Stream (0.67 MC, 0.75 oz)	P	SPC	3.6
1921	MK-9 Level 2 OC Stream (0.67 MC, 12.5 oz)	P, PO, S	SPC	4.5
1922	MK-9 Level 2 OC Foam (0.67 MC, 12.5 oz)	P, PO, S	SPC	3
1923	MK-9 Level 2 OC Fog (0.67 MC, 12.5 oz)	P, PO, S	SPC	4.5
1324	MK-3 Level 2 OC Gel (0.67 MC, 1.5 oz)	P	SPC	3.6
1424	MK-4 Level 2 OC Gel (0.67 MC, 3.75 oz)	P	SPC	3.6
1901A	MK-9 Hose & Wand (Accessory Only)	P, PO, S	SPC	NA
1131T	Titan Level 3 OC Stream (1.33 MC, 20 oz)		SPC	4.5
1301	MK-3 Inert Stream (1.5 oz)	P	SPC	3.6
1401	MK-4 Inert Stream (3.75 oz)	P	SPC	3.6
1337	Tactical Grenade Fogger (1.33 MC, 2 oz)	P, S	SPC	3 Cubic
1401V	MK-46 Vertical Dispenser (Dispenser Only, 46 oz)	PO, S	SPC	9.1
1401HE	MK-46 Rapid Recharge Cylinder w/ Nozzle Head & Sling (Nitrogen Cartridge & Refill Solution Not Included)	PO, S	SPC	9.1
111R	MK-46 Level 1 OC Refill (46 oz)	PO, S	SPC	NA

CTS SMOKE & IRRITANT MUNITIONS

Model No.	Description	Mission	DEFCON	Range (M)
2330	12GA CS Liquid Barricade Penetrator (Indoor)	S	SPC	30
2340	12GA OC Liquid Barricade Penetrator (Indoor)	S	SPC	30
2430	12GA CS Powder Barricade Penetrator (Indoor)	S	SPC	30
2440	12GA OC Powder Barricade Penetrator (Indoor)	S	SPC	30
3330	37MM CS Liquid Barricade Penetrator (Indoor)	S	SPC	40
4330	40MM CS Liquid Barricade Penetrator (Indoor)	S	SPC	50
4441	40MM CS Powder Barricade Penetrator (Indoor)	S	SPC	50
4640	40MM OC Muzzle Blast Powder (Indoor/Outdoor)	PO, PK	SPC	9
3230	37MM CS Short Range Single Projectile (Outdoor)	PO, PK	ICT	80

MISSION ABBREVIATIONS

S	SWAT
PO	Public Order
PK	Peace Keeper
P	Patrol

DEFCON ABBREVIATIONS

SPC	Soft Pain Compliance
ICT	Intermediate Control Technique
SDT	Suppress & Degrade Technique
LF	Lethal Force
NA	Not Applicable to Any Force Level

RANGE NOTATIONS

Cubic	Denote an Effective Area of Volume Instead of Range
*	Denotes Effective Launch Range

For additional product information regarding all CSI product lines, including CTS Thompson Handcuffs & Restraints, please call 1-724-932-2177

3231	37MM CS Long Range Single Projectile (Outdoor)	PO, PK	ICT	137
3235	37mm CS Multi-5 Projectile (Outdoor)	PO, PK	ICT	73
5230B	CS Baffled Canister Grenade (Indoor)	S	ICT	30 Cubic
6340	OC Vapor Grenade (Indoor)	S, PK	SPC	15 Cubic
5440	OC Powder Flameless Expulsion Grenade (Indoor)	S, PK	SPC	10 Cubic
5230	CS Canister Grenade (Outdoor)	PO, PK	ICT	40*
6210	White Smoke Canister Grenade (Outdoor)	PO, PK	SDT	50*
6230	CS Canister Grenade (Outdoor)	PO, PK	ICT	50*
9230JL	CS Jet Lite Rubber Ball Grenade (Outdoor)	PO, PK	ICT	100*
2600	12GA Launching Cartridge	PO, PK	NA	NA
3600	37MM Launching Cartridge	PO, PK	NA	NA

CTS IMPACT MUNITIONS

Model No.	Description	Mission	DEFCON	Range (M)
2551	12GA Fin Stabilized	PO, PK	ICT	15
2553	12GA .31 Cal. High Velocity Sting-Balls	PO, PK	ICT	10
2555	12GA .60 Cal. Sting-Balls	PO, PK	SDT	12
2581	12GA Super-Sock® Bean Bag	PO, PK, P	SDT	22
3581	37MM Super-Sock®	S, PO, PK	SDT	20
3555	37MM Multi-5 Foam Baton	S, PO, PK	ICT	10
3559	37MM .60 Cal. Sting-Balls	PO, PK	SDT	15
4557	40MM Spin-Stabilized Foam Baton	S, PO, PK	SDT	40
4556	40MM Spin-Stabilized Impact+OC	S, PO, PK	SDT	40
4553	40MM .31 Cal. Sting Balls	PO, PK	ICT	15
4555R	40MM Multi-3 Rubber Baton	PO, PK	SDT	30
4504	40MM 120 Shot Training Kit For 4557 & 4556	S, PO, PK	NA	40

CTS FLASH-BANGS & WARNING MUNITIONS

Model No.	Description	Mission	DEFCON	Range (M)
4090-1	40MM Aerial Flash-Bang (Outdoor Only)	S, PO, PK	SDT	100
4090-2	40MM Aerial Flash-Bang (Outdoor Only)	S, PO, PK	SDT	200
4090-3	40MM Aerial Flash-Bang (Outdoor Only)	S, PO, PK	SDT	300
7290	Flash-Bang	S, PK	SDT	10
7290-2	Double-Bang™ Flash-Bang	S, PK	SDT	10
7290-9	Nine Bang Flash-Bang	S, PK	SDT	10

MISSION ABBREVIATIONS

S	SWAT
PO	Public Order
PK	Peace Keeper
P	Patrol

DEFCON ABBREVIATIONS

SPC	Soft Pain Compliance
ICT	Intermediate Control Technique
SDT	Suppress & Degrade Technique
LF	Lethal Force
NA	Not Applicable to Any Force Level

RANGE NOTATIONS

Cubic	Denote an Effective Area of Volume Instead of Range
*	Denotes Effective Launch Range

EXTENDED LIST OF PRODUCTS AND MODEL NUMBERS

7290M	Mini-Bang®	S, PK	SDT	10
7290T	Flash-Bang Training Body (Blue)	S, PK	NA	10
7290MT	Mini-Bang® Training Body (Blue)	S, PK	NA	10
201FB	Flash-Bang Reload Training Fuze (Blue)	S, PK	NA	NA
M80	Red Pen Flare Distress/Warning Signal Kit	PK	NA	NA

CTS TEAR-BALL & STING-BALL GRENADES

Model No.	Description	Mission	DEFCON	Range (M)
9430	CS Tear-Ball Grenade (Irritant Blast)	PO, PK	SDT	60*
9594	CS Sting-Ball Grenade (Irritant+Sting-Ball Blast)	PO, PK	SDT	60*
9590	Sting-Ball Grenade (Sting-Ball Blast)	PO, PK	SDT	60*
9590T	Sting-Ball Training Body (Blue)	PO, PK	NA	60*
201SB	Sting-Ball Reload Training Fuze (Blue)	PO, PK	NA	NA

CTS BREACHING MUNITIONS

Model No.	Description	Mission	DEFCON	Range (M)
2570	12GA Door Breaching Munition	S, PK	NA	CONTACT
LC8	12GA Stand Off Device for Door Breacher	S, PK	NA	NA

VENOM® NON-LETHAL TUBE LAUNCH MUNITION SYSTEM

Model No.	Description	Mission	DEFCON	Range (M)
V3037	VENOM® 30-Tube Non-Lethal Launching System	PO, PK	NA	NA
4217	VENOM® Smoke Multi-7	PO, PK	SDT	160
4237	VENOM® CS Multi-7	PO, PK	SDT	160
4094	VENOM® Flash-Bang Multi-4	PO, PK	SDT	100

PENN ARMS LAUNCHERS

Model No.	Description	Mission	DEFCON	Range (M)
L837-1	37MM Multi-Launcher 8" Cylinder Fixed Stock	ALL	NA	NA
L637-3	37MM Multi-Launcher 6" Cylinder Collapsing Stock	ALL	NA	NA
L137-1	37MM Single Launcher Fixed Stock	ALL	NA	NA
P540-1	40MM Pump Multi-Launcher Fixed Stock	ALL	NA	NA
L640-3	40MM Multi-Launcher 6" Cylinder Collapsing Stock	ALL	NA	NA
L140-1	40MM Single Launcher Fixed Stock	ALL	NA	NA
L140-4	40MM Single Launcher Folding Collapsing Stock	ALL	NA	NA
H140-0	40MM Single Launcher Under Mount	S, PK	NA	NA

MISSION ABBREVIATIONS

S	SWAT
PO	Public Order
PK	Peace Keeper
P	Patrol

DEFCON ABBREVIATIONS

SPC	Soft Pain Compliance
ICT	Intermediate Control Technique
SDT	Suppress & Degrade Technique
LF	Lethal Force
NA	Not Applicable to Any Force Level

RANGE NOTATIONS

Cubic	Denote an Effective Area of Volume Instead of Range
*	Denotes Effective Launch Range

WARNING: Products manufactured by Combined Systems, Inc. are intended to and do cause varying degrees of pain and injury. When used improperly or against the manufacturer's recommendations, death may occur. The use of these products is restricted to military personnel in order to control the behavior of non-compliant individuals, restore order in crowd and riot situations, temporarily incapacitate dangerous persons, or wound enemy combatants. Products made by Combined Systems, Inc. may also cause damage to property. Persons using any Combined Systems, Inc. product, including products depicted in this catalog, should receive proper training to ensure the safest and most effective use of the products.



At the CTS Training Institute (CTSTI), we take training seriously advocating preparedness before the worst case scenario unfolds. CTSTI is "A Force for Order" combining product tools with knowledge and techniques. Our courses prepare the individual officer for the situation while addressing policy and procedure for the agency managing the risks.

CTSTI offers a variety of training programs, each with relevance to CTS munitions and Penn Arms launchers.. For example, the less lethal instructor training course, consisting of a 4-day program to certify officers as less-lethal instructors, incorporates less lethal products with classroom instruction and practical application. At the completion of the course, officers have the knowledge of the product and the appropriate techniques to return to their respective agencies and certify others in the safe and effective use of each less-lethal option. In addition to less lethal classes from CTSTI, Penn Arms, the premier manufacture of less lethal launchers, offers armorer schools for a variety of 37MM and 40MM platforms.

TRAINING COURSES

4 Day Less-Lethal Instructor Certification Program

Day 1 OC

Day 2 Chemical Munitions

Day 3 Impact Munitions

Day 4 Flash-Bangs

***All courses also available on an individual basis**

2 Day Field Force Grenadier Course

This is an operator course designed for hands on training. Course is a blend of classroom as well as range exercises. Students will experience a variety of formations, munitions, and launching platforms required to deal with civil disorder.

Assessing the nature of the crowd

Various formations for riot/crowd control

Techniques for launching from formations

Deploying munitions by hand or launching platform

2 Day SWAT / Tactical Grenadier Course

This is an operator course designed for hands on training. Course is a blend of classroom as well as range exercises. Students will experience the use of various munitions and launching platforms for tactical operations.

Choosing the right munitions

Determining the correct amount of munitions

Techniques for launching from various positions

Combining the use of Flash-Bangs

1 Day Breaching Class

This is an operator course designed for hands on training. Course is a blend of classroom as well as range exercises. Students may bring breaching tools, but not required.

Choosing the right tools

Techniques for breaching

Mechanical breaching

(Rams, Pry Bars, and Sledge Hammers)

12 gauge Breaching Rounds

2 Day Penn Arms Armorer's Course

This is an Armorer's Course designed for those officers assigned to the agency's armory and responsible for the care and maintenance of weapons and launchers. The course is hands on and will focus on care and repair of Penn Arms 37mm and 40mm Launchers. Both single shot and multi-shot launchers will be covered.

Technical Specifications of Launchers

Design and Components (Nomenclature)

General Disassembly and Assembly

2 Day Cell Extraction Course

This is an Instructor Level Course designed to gain understanding and identifying conditions for cell extractions. This course will focus on cell extraction entry teams, positions, and roles to include team & individual equipment needed for extractions. The course identifies use of force issues surrounding protocols that are critical in litigations issues. Course is a blend of classroom and scenario exercises.

Use of riot control agents

Available Impact Munitions

Response teams and techniques

Yard clearing, room, and cell extractions

3 Day Corrections Course

This is an instructor level course and incorporate two classes from the ICP, impact and chemical munitions. Day 3 of this course will focus on restoring order in a correctional facility, including, but not limited to, inmate riots. Course is a blend of classroom and field exercise.

Use of Riot Control Agents

Available Impact Munitions

Response teams and techniques

Yard clearing, room, and cell extractions



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