



THE LESS LETHAL
PRODUCT SOURCE

CTS



CSI
COMBINED
SYSTEMS.

CTS
CORDELL
TACTICAL SYSTEMS

CTS
TRAINING
INSTITUTE

CTS
RESEARCH
AND DEVELOPMENT

PENN ARMS.

Dedicated To Your Mission®

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 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)
- ♦ 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

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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.

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



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



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

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



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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
BDT

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



The stand-off from CTS Less-Lethal munitions gives me and my team the advantage in high-risk situations.

SWAT

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



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.



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.



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.



mission critical: CTS Flash-Bangs have a patented confidence clip for enhanced safety and a pin shroud to ensure a pin pull consistency and prevent snagging on nylon gear.



mission critical: The 4557 is manufactured under strict controls and is best in class when it comes to accuracy and energy consistency shot to shot.



MK-9 OC VAPOR WITH HOSE & WAND

Product: 1947

Product: 1901 (Hose & Wand)

Description: The hose and wand attachment facilitates deployment of the Vapor under doors, through food chutes, and into small confined spaces.



3
SPC

MAX
RANGE
4.5



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.



3
SPC

MAX
RANGE
30



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.



5
BDT

MAX
RANGE
40

SWAT



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: In addition to force options, we offer breaching rounds in standard and heavy breaching material. These rounds 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.



*In the chaos and violence of a riot,
we depend on CTS less lethal
munitions to restore law and order.*

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.



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.



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.





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.



mission critical: The capability to disperse large crowds with multiple projectile munitions and to selectively engage and momentarily incapacitate individuals are both important for the public order unit.

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 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.



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.



PUBLIC ORDER UNIT



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.



MK-46H AEROSOL HORIZONTAL DISPENSER

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

Description: The MK-46 is the highest volume aerosol dispenser. It can handle up to 1.45 liters of a variety of irritant formulations. Fully charged it will project a strong and accurate stream.



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.

mission critical: The number of rioters and the degree of violence toward officers, innocent people, and property will be the greatest factor to determine the less lethal force option as well as the volume of the agent or the quantity of munitions to be deployed.

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.



PUBLIC ORDER UNIT



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.



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.



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.



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 unit's escalation of force capabilities during outdoor riot situations.



mission critical: Aerial flash-bangs as opening salvos are a psychological warning to a crowd of impending action by public order units.



CSI's non-lethal systems support my missions with Escalation of Force and Determination of Intent capability.



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.



NLTLMS

Non Lethal Tube Launched Munition Systems

40MM VENOM® NLTLMS

Product: VENOM® NLTLMS

Description: Lightweight, high capacity non-lethal tube launch munition system with fully interchangeable 37MM, 40MM and 60MM tubes. Fully capable for mounted use on vehicles, remote weapons stations or static force protection installations.



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.



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.





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.





37MM VENOM® 30-TUBE NLTMS

Product: V3037

Description: Developed for the USMC, a 30-tube, lightweight, high capacity 37MM grenade launcher. For mounted use on vehicles, tripod mounts, and static installations.



NLTMS
Non Lethal
Tube Launched
Munition Systems

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.



*As first responders, we rely on CTS
Less-Lethal options to control subjects
and de-escalate violent situations.*



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.



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.



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: 1311

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.



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.



mission critical: The accuracy and consistent impact energy 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.

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.



LAUNCHERS

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
- Picatinny Rail Set at 3, 6, and 9 O'Clock



LAUNCHERS

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
- Picatinny Rail





EXTENDED LIST OF PRODUCTS AND MODEL NUMBERS

CTS AEROSOL DEFENSE SPRAYS

Model No.	Description	Mission	DEFCON	Range (M)
1311	MK-3 Level 1 OC Stream (0.18 MC, 1.5 oz)	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
1947	MK-9 Level 2 OC Vapor (0.67 MC, 12.5 oz)	P, PO, S	SPC	4.5
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
1401H	MK-46 Horizontal Dispenser (Dispenser Only, 46 oz)	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 1-888-989-7800.

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	DC Vapor Grenade (Indoor)	S, PK	SPC	15 Cubic
5440	DC 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
4558	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 & 4558	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
7290M	Mini-Bang®	S, PK	SDT	10
7290T	Flash-Bang Training Body (Blue)	S, PK	NA	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

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
L837-3	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
L840-3	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 are intended to and do cause varying degrees of pain, injury and death. The use of these products is restricted to military personnel in order to control the behavior of individuals, restore order in crowd and riot situations, temporarily incapacitate dangerous persons or fatally wound enemy combatants. Products made by Combined Systems may also cause damage to property. Persons using any Combined Systems products depicted in this catalog should receive proper training to ensure the safest and most effective use of the products.



EAGLE Registrations Inc.
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CTS TRAINING INSTITUTE (CTSTI)

At the CTS Training Institute (CTSTI) we take training seriously. Our less-lethal programs combine product solutions with instructor level knowledge and tactical techniques preparing soldiers, police and corrections officers for a wide range of missions involving SWAT, public order, peacekeeping or patrol.

Upon successful completion, officers are equipped with knowledge and hands-on experience to return to their respective agencies and certify others in the safe and effective use of each less lethal option. Our courses are mobile and can be hosted by any agency most any anywhere. Hosts need to provide a classroom, 100 meter range and a work area for hand-on exercises. Running water is a requirement for all OC training programs.

Classes are restricted to law enforcement, corrections and military personnel. Each attendee will receive a certificate upon successful completion of the course. Go to www.combinedsystems.com/training/ for details.

T R A I N I N G P A C K A G E S

4 Day Less-Lethal Instructor Certification Program

Day 1 OC
Day 2 Chemical Munitions
Day 3 Impact Munitions
Day 4 Flash-Bangs

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

3 Day Corrections Course

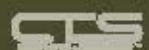
This is an instructor level course and incorporates 2 classes from the ICP, Impact and Chemical Munitions. Day 3 of this course will focus on restoring order in a correctional facility, including, but not limited to, inmates riots. Course is a blend of classroom and field exercise.

Use of riot control agents
Available Impact Munitions
Response teams and techniques
Yard clearing, room, and cell extractions

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



Dedicated To Your Mission®