CTS

COMBINED TACTICAL SYSTEMS

A FORCE FOR ORDER

PRODUCT CATALOG

COMBINED
TACTICAL SYSTEMS

A FORCE FOR ORDER

A Division of Combined Systems, Inc.

Combined Systems, Inc (CSi), was founded in 1981 as a small engineering company specializing in pyrotechnic and munition systems for the U.S. Military. Today, CSi develops and manufactures a wide range of products from its Combined Tactical Systems (CTS) and Penn Arms manufacturing divisions.

Dedicated People
Quality Processes
Product Performance

CTS produces a wide range of less-lethal munitions for the military, police and corrections forces worldwide. Penn Arms, recently purchased by CSi, complements this business with 12ga, 37mm and 40mm launching systems.

As a company with engineering roots, CSi has always actively pursued the development of new products made to the highest standards of quality and reliability to ensure the most consistent and reliable performance in the market. CSi has been able to achieve and maintain these unmatched standards because the CSi employees understand the nature of your business and the simple fact that when a customer needs a CTS product, it is during a critical situation. Therefore, the product is ***really needed*** and reliability is paramount.

Research & Development

The CSi staff of experienced engineers and technicians continue to develop products meeting the demands of the soldier and police officer around the world. As a product development partner, CSi has earned the reputation as a company that delivers products that meet the operator's specific needs.

Quality Control Team

CSi ascribes to the highest standards of quality assurance. Our 9-person quality control team follows strict guidelines and utilizes precision instruments to assure the highest standards of quality are met. This includes rigorous inspection and verification of incoming parts to standards that meet or exceed MIL-SPEC and in-process quality control monitoring during all critical manufacturing processes based on MIL-SPEC standards. Quality control includes in-process destructive performance testing and a 300% thorough final inspection process. CSi is ISO 9001:2000 certified and DOD 4145.26M and MIL-STD 1916 compliant.

Sales & Training

The CSi sales staff is here to assist you, answer your questions and help you find the best solutions to meet your needs. The CTS training staff is dedicated to ensuring that CTS customers understand less-lethal products, allowing you to manage the risks appropriately and achieve the best possible outcome with CTS less-lethal munitions.

Customer Service

Sales

In-Process Quality Control

Training

Manufacturing

WARNING: Products manufactured by Combined Tactical Systems are less-lethal force options. Less-Lethal options are intended to cause varying degrees of pain and injury, which are temporary. These options are restricted to law enforcement, corrections and military personnel and are used to gain compliance, restore order or temporarily incapacitate dangerous persons. In rare circumstances, less-lethal options may cause death or serious bodily injury. Less-Lethal options may also cause damage to property. Therefore, any person using the force options pictured in this product catalog should receive proper training to ensure the safest and most effective use.

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LESS-LETHAL INSTRUCTOR TRAINING

Combined Tactical Systems offers several comprehensive less-lethal instructor programs. The purpose of the training programs is the certification of officers as less-lethal instructors. 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. Find out more about the CTS Less-Lethal Instructor Training Program by contacting us at: (724) 932-2177 ext. 119 or e-mailing training@combinedsystems.com.

- OC / Aerosol Instructor
- Chemical Munitions Instructor
- Impact Munition Instructor
- Flash-Bang Instructor
- Penn Arms Armorer

TRAINING

PENN ARMS

DEDICATED TO YOUR MISSION

A Division of Combined Systems, Inc.

Striker SE

NEW!

12-gauge, 12-shot Drum Magazine, Auto Eject, Breaching Shotgun

TL-1 FI

37mm Single-Shot Fixed Stock

TGL-1 FI

40mm Single-Shot Fixed Stock

GL-1 Compact

NEW!

40mm Single-Shot Collapse & Fold Stock

PL-8 FI

37mm Multi-Shot Pump Action, Fixed Stock

PGL-65 40

40mm Multi-Shot Pump Action, Collapsing Stock

LAUNCHING SYSTEMS

WWW.PENNARMS.COM

www.less-lethal.com 888-989-7800

CTS COMBINED TACTICAL SYSTEMS

Defense Aerosols

Aerosol projectors and accessories for patrol, tactical, crowd management and correctional officers. CTS Defense Aerosols are first options in spontaneous confrontations and non-compliant individuals encountered during patrol and correctional duty. CTS produces a variety of formulations, unit sizes and delivery methods.

OC Vapor System
Model 1947HW

NEW!

The OC Vapor System with hose and wand is ideal for forcing subjects from small rooms, attics, crawl spaces or confined areas in cell extraction situations. It is a non-flammable vapor which affects the respiratory system. OC Vapor does not require extensive area clean up or personal decontamination procedures.

LEVEL 1 OC - 0.18 MC*
MK-3 Model # 1340
MK-4 Model # 1440

LEVEL 2 OC - 0.67 MC*
MK-3 Model # 1342
MK-4 Model # 1442

LEVEL 3 OC - 1.33 MC*
MK-3 Model # 1343
MK-4 Model # 1443

OC SPRAYS

OC FOAM
MK-3 Model # 1351
MK-4 Model # 1451

OC/CS
MK-3 Model # 1350
MK-4 Model # 1450

INERT SPRAYS
MK-3 Model # 1300
MK-4 Model # 1400

INERT TRAINING SPRAYS

PATROL DUTY AEROSOLS - STREAM

VULCAN OC POUCH - NEW!

- Rapid Deployment
- Universal Design
- Multi-Positional
- Ergonomic
- Durable Hi-Tech Construction

HIGH VOLUME OUTPUT UNITS FOR CROWD DISPERSAL, AREA SATURATION AND EXTENDED RANGE

LEVEL 1 OC - 0.18 MC*
MK-9 Model # 1940

LEVEL 2 OC - 0.67 MC*
MK-9 Model # 1942
MK-21 Model # 1242
MK-46 Model # 1642

LEVEL 3 OC - 1.33 MC*
MK-9 Model # 1943

OCV VAPOR SYSTEM - NEW!
MK-9 Model # 1947HW
MK-9 Model # 1947

OC/CS
MK-9 Model # 1950
MK-21 Model # 1250
MK-46 Model # 1650

INERT TRAINING UNITS
MK-9 Model # 1900
MK-21 Model # 1200
MK-46 Model # 1600

HOSE & WAND ACCESSORIES
MK-9 Model #1947OCV
OCV Hose & Wand Model # 1947HWO
MK-21 / MK-46 Model #1100

OC STREAM EFFECTIVENESS

- Pain & discomfort.
- Primary effect is to the eyes.
- Mild inflammation and a sensation of sunburn to areas coming in direct contact with the OC liquid.

* MC refers the Major Capsaicinoids - the amount by weight of active OC ingredient in a can of pepper spray.

OC ACCESSORIES

HIGH VOLUME OUTPUT

Chemical Munitions & Smoke

CTS produces a full line of chemical irritant and smoke munitions. The comprehensive line includes grenades, 12gauge, 37mm and 40mm projectiles. These less-lethal options address a wide range of scenarios from assisting tactical teams in displacing or detecting barricaded subjects to aiding riot control units charged with maintaining order in public or correctional environments.

Indoor Grenade Solutions

Model 6240OCV - The OCV Grenade is non-flammable and discharges an invisible vapor into enclosed spaces affecting non-compliant subjects. The primary effect is shortness of breath, pain and discomfort.

Model 5230B - The Baffled Grenade can be used indoors with very minimal risk of fire. The 5230B delivers a very high volume of irritant agent. It is an excellent indoor option when the situation requires escalation of force.

NEW!

37MM

40MM

12GA BARRICADE PENETRATOR
Liquid CS Model # 2330
Liquid OC Model # 2440
Powder CN Model # 2420
Powder Inert Model # 2440

37MM BARRICADE PENETRATOR
Liquid CS Model # 3330

37MM HEAVY BARRICADE PENETRATOR
Hvy Barricade CS Model # 3530

40MM BARRICADE PENETRATOR
Liquid CS Model # 4330
Powder OC Model # 4441

BARRICADE PENETRATORS

37MM

40MM

MUZZLE BLAST
37MM CS Muzzle Blast Model # 3430
40MM OC Muzzle Blast Model # 4640

SHORT RANGE PROJECTILES
37MM CS Model # 3230

SHORT RANGE MULTI-PROJECTILE
37MM Multi-3 CN Model # 3223
37MM Multi-5 CS Model # 3235
40MM Mulit-3 CN Model # 4223

LONG RANGE PROJECTILES
40MM Red Smoke Model # 4210R
40MM CS Model # 4230

CROWD DISPERSAL & SMOKE

37MM / 40MM PROJECTILES

52-SERIES

INDOOR GRENADES

54-SERIES

INDOOR OUTDOOR

62-SERIES

52-SERIES

62-SERIES

82-SERIES

92-SERIES

OUTDOOR GRENADES

INDOOR GRENADES
BAFFLED GRENADES
52-Series Baffled CS Model # 5230B

VAPOR GRENADE SYSTEM - NEW!
62-Series OC Model # 6240-OCV

INDOOR/OUTDOOR GRENADES
54-Series OC Expulsion Model # 5440

OUTDOOR GRENADES
52-Series 67MM Diameter, Model #'s
5210 Smoke, 5230 CS
52-Series Triple Phaser
5221 CN, 5231 CS
52-Series Jet Lite
5210JL Smoke, 5230JL CS
62-Series 59MM Grenades Model #'s
6210B Blue Smoke, 6230 CS
62-Series Triple Phaser Model #'s
6221 CN, 6231 CS
82-Series 36MM Diameter Grenades
8210 Smoke, 8230 CS
92-Series Rubber Ball Jet Lite Grenades
9210 Smoke, 9230 CS

GRENADES

12GA

37MM

LAUNCHING CARTRIDGES
12GA Model # 2600
37MM Model # 3600

LAUNCHING CUPS
52-Series Model # LC5
62-Series Model # LC6
82-Series Model # LC8
92-Series Model # LC9

LAUNCHING CARTRIDGES & CUPS

MAGNUM TACTICAL ACCESSORIES
Miami Riot Control Pack

See our full line of tactical accessory and munition carriers. We have bags, pouches, and gun cases to suit your mission needs.

ACCESSORIES

BAGS AND CASES

Impact Munitions

CTS manufactures a wide range of single and multiple projectile munitions with payload capabilities exceeding those of any other less-lethal manufacturer. Single projectile offerings are extremely accurate for selective engagement in a variety of situations. Multiple projectile munitions come in a wide range of payloads permitting escalation of force when dispersing large and unruly crowds.

Point of Aim - Point of Impact Munitions

CTS offers point of aim - point of impact capabilities in 12ga, 37mm and 40mm calibers. Munitions such as Super-Sock® and Foam Baton provide the operator with extreme accuracy for selective engagement at extended ranges.

Model 2581 Model 3581 Model 4557

NEW!

CTS VENOM™ launching system is easily mounted on a wide range of platforms including marine vessels, land vehicles and static area control locations.

VENOM™ HIGH CAPACITY VARIABLE PAYLOAD LAUNCHING SYSTEM

12 GAUGE

MULTIPLE PROJECTILE
Single Rubber Baton Model # 2550
Sting-Ball .31 Cal. Model # 2552
Sting-Ball HV .31 Cal. Model #2553
Sting-Ball .60 Cal. Model # 2555

SINGLE PROJECTILE
Super-Sock® Model # 2581

37/40MM DUAL RIM

4.8" (12.1 CM) MULTIPLE PROJECTILE
Multi-3 Foam Baton Model # 3551
Multi-3 Wood Baton Model # 3561

4.8" (12.1 CM) SINGLE PROJECTILE
Super Sock® Model 3581

8" (20.3CM) MULTI-PROJECTILE
Multi-5 Foam Baton Model # 3555
Multi-5 Rubber Baton Model # 3555R
Sting-Ball .31 Cal. Model # 3556
Sting-Ball .60 Cal. Model # 3559
Multi-5 Wood Baton Model # 3565

12GA & 37 / 40MM

Deployed in Iraq by the US Marine Corps

- Area Denial
- Escalation of Force
- Crowd Dispersal
- Can be mounted on remote stand-alone traversing and elevating mechanism.
- Capable of precise area delivery

VENOM™ FEATURES
- Modular launching system.
- Three cassettes with 10 cartridges in each containing multiple submunitions.
- Can be integrated into a variety of fire control systems.
- Each cartridge is assigned an IP address allowing individual cartridge or desired sequence firing from either hand-held front line or remote locations.

PAYLOAD OPTIONS
- Flash-Bang/Sting-Ball Combination Variable Ranges to 200 Meters
- Long Range Flash-Bang Ranges up to 700 Meters
- Smoke & Irritant
- Impact Munition Variations

VENOM™ LAUNCHING SYSTEM

MULTI-PROJECTILE

MULTIPLE PROJECTILE MUNITIONS
Multi-3 Foam Baton Model # 4551
Sting-Ball .31 Cal. Model # 4553
Sting-Ball .60 Cal. Model # 4558
Multi-3 Wood Baton Model # 4561

SPIN STABILIZED
Sponge Round Model # 4557
Frangible Foam OC Model #4556
Frangible Foam CS Model #4530
Frangible Foam Marker Model #4550

TRAINING MUNITIONS = SAVINGS!
Sponge Round Reload Kit Model 4500

TRAINING

40MM

Flash-Bangs & Sting-Ball Grenades

CTS offers the widest selection of Flash-Bangs and Sting-Ball Grenades in the world with unmatched standards for safety and fuze consistency. Our systems can be deployed by hand or launched to extended ranges. Sting-Ball and Tear Ball Grenades come in a variety of configurations for multi-effect in riot situations occurring indoors or outdoors.

Model 7290T

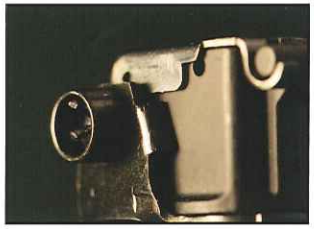
Model 7290MT

Flash-Bang & Sting-Ball Training Systems

The 7290 and 7290M Flash-Bangs are quickly becoming the standard for SWAT teams everywhere. Sting-Ball Grenades are used every day by correctional facilities to maintain order. Most importantly, CTS offers low cost training alternatives that enhance safety and save your department money.

CTS's patented "Pull Safe" hand grenade safety technology is incorporated on all CTS grenades and is currently being included on all US Army hand grenades as the "Confidence Clip."

CONFIDENCE CLIP



The Pin Shroud is incorporated on all CTS flash-bang grenades to prevent snagging of the pins on tactical gear, and to ensure consistency of pull force removing the pin.

PIN SHROUD

At CTS, quality control staff, strict guidelines and precision instruments ensure every fuze is built to the highest standards for consistent delay times.

FUZE PRECISION

SAFETY FIRST

TEAR-BALL GRENADES

STING-BALL GRENADES

FLASH-BANGS
Mini-Bang Model # 7290M
Flash-Bang Model # 7290
Command Initiated Model # 7290CI

TEAR-BALL GRENADES
Inert Model 9410
CN Model 9420
CS Model 9430
OC Model 9440

STING-BALL GRENADES
No Irritant Model # 9590
CN Model 9592
CS Model 9593
OC Model 9594

FLASH-BANGS

FLASH-BANG & STING-BALL SYSTEMS

FLASH-BANG TRAINER

ENHANCED SAFETY & COST SAVINGS WITH CTS TRAINING SYSTEMS

FLASH-BANG TRAINING DEVICES
Flash-Bang Training Body Model # 7290T
Mini-Bang Training Body Model # 7290MT
Reload Training Fuze Model # 201FB
Flash-Bang Training Kit Model 7200
Mini-Bang Training Kit Model 7200M

Flash-Bang Training Kit Contents:
- 70 Reloads - Left Hand Thread
- 1 Blue Training Body

STING-BALL TRAINER

STING-BALL TRAINING DEVICES
Sting-Ball Training Body Model # 9590T
Reload Training Fuze Model # 201SB
Sting-Ball Training Kit Model # 9500

TRAINING SYSTEMS

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COMBINED
TACTICAL SYSTEMS

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www.less-lethal.com

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