

ADVANCED SMALL ARMS AMMUNITION

CORE OF FIREPOWER



The logo for Czsr, featuring a stylized white 'C' followed by the lowercase letters 'zsr' in a white sans-serif font.

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Türkiye's Ammunition Power

Our Leading Brands: ZSR and YAF



ZSR

One of Türkiye's leading manufacturers of small arms ammunition.

* Specialized in NATO-standard small arms ammunition.

YAF

One of Türkiye's largest manufacturers of hunting cartridges, known for superior quality and high production capacity.

* Product range includes cartridges from 12 to 36 caliber: shot, slug, pellet, blank and traumatic cartridges.



STRATEGIC LOCATION

ZSR is strategically located in Balıkesir, Türkiye, offering a distinct logistical advantage with proximity to major industrial and commercial hubs, including Istanbul and Izmir. It ensures direct and efficient access to key export gateways through established connections to major ports.

TURKIYE

36°–42° North Latitudes
26°–45° East Longitudes



WHO WE ARE? What We Deliver?

ZSR is a leading defence industry company specializing in the production of small arms ammunition, headquartered in Balıkesir, Türkiye.

With advanced manufacturing infrastructure and strong engineering capabilities, ZSR operates across two core segments:

- **Small Arms Ammunition**
- **Hunting and Sporting Cartridges**

By producing all critical metal components in-house, ZSR maintains full control over quality and performance at every stage of production.

This vertically integrated structure represents one of the company's key competitive advantages.

ZSR delivers reliable, high performance small arms ammunition solutions designed to meet the demands of military, law enforcement and commercial markets.

Its subsidiary, YAF, is a well established brand in hunting and sporting ammunition, recognized for its production capacity and consistent product quality.



Near to Istanbul, Izmir
Ports & Airports

SMALL ARMS AMMUNITION Index

An overview of ZSR's small arms ammunition portfolio, featuring core calibers and configurations engineered for military, law enforcement, and civilian applications.

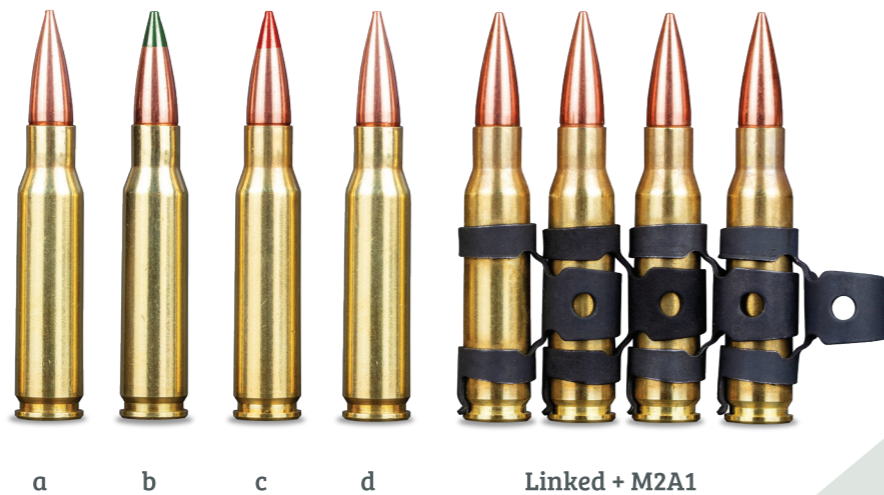
9X19 MM

- a - Luger
- b - Parabellum
- c - Hollow Point



5.56X45 MM

- a - M193
- b - M855
- c - M856 Tracer
- d - .223 REM



7.62X39 MM

- a - M43
- b - M67



7.62X51 MM

- a - M80
- b - M62 Tracer
- c - .308 WIN



12.7X99 MM

- a - M33
- b - M17 Tracer
- c - AP



ADVANCE SMALL ARMS AMMUNITION

Product PORTFOLIO

ZSR's small arms ammunition portfolio covers a broad range of core calibers and configurations tailored to diverse operational requirements.

CORE CALIBER RANGE

- 9×19 mm
- 5.56×45 mm / .223 REM
- 7.62×39 mm
- 7.62×51 mm / .308 WIN
- 12.7×99 mm

PERFORMANCE STANDARDS

Each ZSR cartridge is engineered to deliver consistent, mission ready performance under demanding operational conditions, ensuring:

- High precision and accuracy
- Reliable ignition and feeding
- Stable and consistent ballistic performance
- Proven reliability in adverse environments





9X19 MM

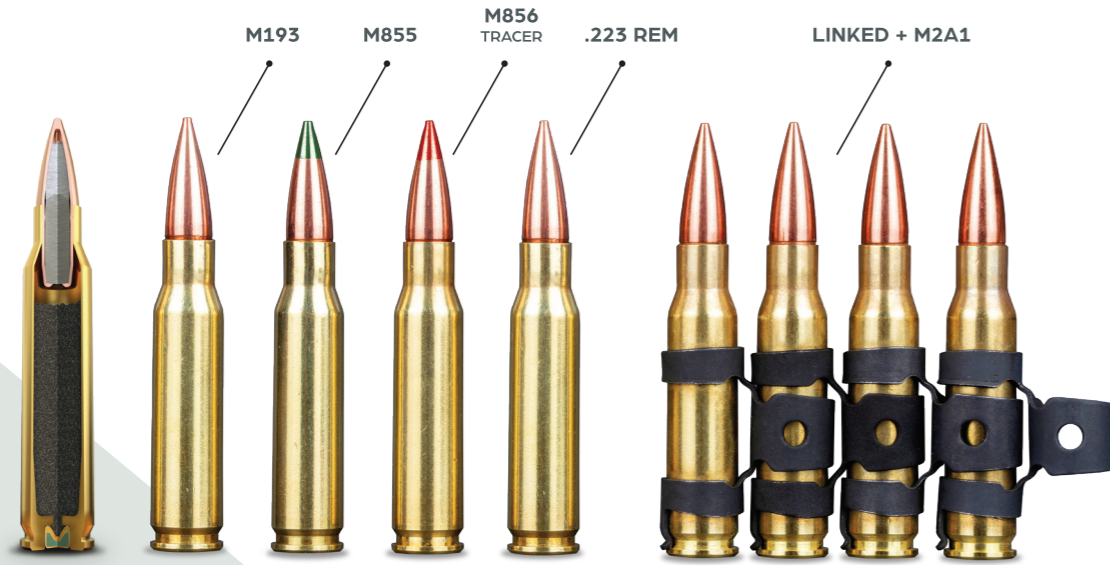


BULLET TYPE	LUGER (124) BALL	LUGER (115) BALL	PARABELLUM (115) BALL	PARABELLUM (124) BALL	HOLLOW POINT (124) BALL
BULLET WEIGHT	124 gr (~ 8.00 g)	115 gr (~ 7.50 g)	115 gr (~ 7.50 g)	124 gr (~ 8.00 g)	124 gr (~ 8.00 g)
BULLET MATERIAL	Jacket - Tombac /CuZn30				Jacket-Hollow Point / CuZn10
	Core – Lead Antimony				
CASE MATERIAL	Brass CuZn30				
CASE LENGTH	~ 19.15 mm				
PRIMER TYPE	9 mm Primer, Boxer, non-corrosive				
POWDER TYPE	Spherical, Double Base Powder				
PRESSURE	Max. 2350 Bar (Chamber)		Pmax + 3Sd 2850 Bar (Case Mouth)		
VELOCITY (m/s) at 16 m	350 ± 10 m/s		370 ± 10 m/s		
ACCURACY (Standard Deviation)	Max. 76 mm at 50 m				
ACTION TIME	3 ms				
EXTRACTION FORCE	Min. 20.4 kgf / 200.4 N				
CARTRIDGE LENGTH	~ 29.69 mm				
WATERPROOFNESS	Applied				
TEMPERATURE RANGE	-54 °C to +52 °C				
REFERENCE DOCUMENT	C.I. P / SAAMI		AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION		





5.56X45 MM



BULLET TYPE	M193 BALL	M855 BALL	M856 TRACER
BULLET WEIGHT	~55 gr (~ 3.56 g)	~62 gr (~ 4,00 g)	~62 gr (~ 4,00 g)
BULLET MATERIAL	Jacket- Tombac/CuZn10 Core- Lead Antimony	Jacket – Tombac/CuZn10 Core – Steel and Lead Antimony	Jacket – Tombac plated steel strip or copper washer steel strip Core – Lead Antimony Tracer- Tracer Comp.
CASE MATERIAL	Brass CuZn30		
CASE LENGTH	~ 44.70 mm		
PRIMER TYPE	4.4 Primer, Boxer, non-corrosive		
POWDER TYPE	Spherical, Double Base Powder		
CASE MOUTH PRESSURE	Pavg. + 3SD ≤ 4450 Bar		
PORT PRESSURE	Port – 3Sd > 1030 Bar		
VELOCITY (m/s) at 24 m	960 ± 20 m/s	920 ± 20 m/s	895 ± 12 m/s
ACCURACY (Standard Deviation)	Max. 50.8 mm at 180 m	Max. 200 mm at 550 m	Max. 300 mm at 550 m
TRACE	Dim trace to min 13 m from the muzzle of the weapon, visible from max 140 m to min 600 m from the muzzle of the weapon		
ACTION TIME	3 ms		
EXTRACTION FORCE	Min. 20.4 kgf / 200.4 N		
CARTRIDGE LENGTH	~574 mm		
WATERPROOFNESS	Applied		
TEMPERATURE RANGE	-54 °C to +52 °C		
REFERENCE DOCUMENT	AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION Aop-4172 Technical Performance Specification Providing for the Interchangeability of 5.56 mm x 45 Ammunition		





7.62X39 MM

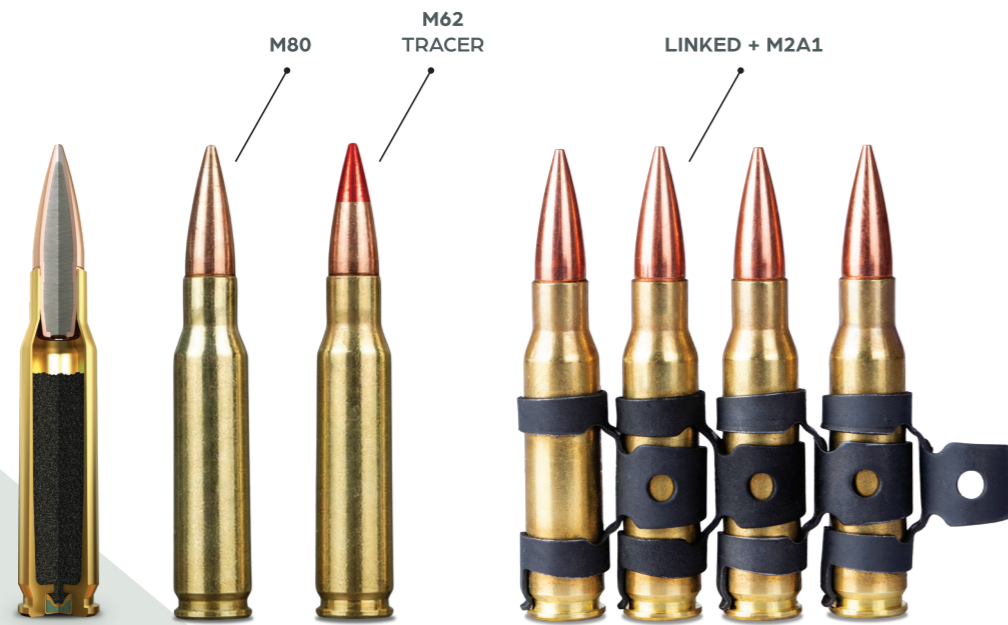


BULLET TYPE	M43 BALL	M67 BALL
BULLET WEIGHT	123 gr (~8.00 G)	123 gr (~ 8.00 g)
BULLET MATERIAL	Jacket – Tombac Plated Steel Core 1 – Steel Core 2 – Lead Antimony	Jacket – Lead Core
CASE MATERIAL	Steel	Steel
CASE LENGTH	~38.70 mm	~ 38.70 mm
PRIMER TYPE	5.31 mm Primer, Boxer, Non-corrosive	5.3 Primer, Boxer, Non-corrosive
POWDER TYPE	Spherical, Double Base Powder	Spherical, Double Base Powder
CASE MOUTH PRESSURE	PMAX 3350 Bar	PMAX 3350 Bar
VELOCITY (M/S) AT 24 M	715 ± 20 M/S	710 ± 20 M/S
ACTION TIME	~4 MS	4 MS
EXTRACTION FORCE	Min. 27.2 kgf / 265 N	Min. 27.2 kgf / 265 N
CARTRIDGE LENGTH	~56.00 mm	~56.00 mm
WATERPROOFNESS	Applied	Applied
TEMPERATURE RANGE	-54 °C TO + 52 °C	-54 °C to + 52 °C





7.62X51 MM



BULLET TYPE	M80 BALL	M62 TRACER
BULLET WEIGHT	~149 gr (~ 9.65 g)	~146 gr (~ 9.46 g)
BULLET MATERIAL	Jacket- Tombac/CuZn10 Core – Lead Antimony	Jacket – Tombac plated steel strip or copper washer steel strip Core- Lead Antimony Tracer- Tracer Comp.
CASE MATERIAL	Brass CuZn30	
CASE LENGTH	~ 51,18 mm	
PRIMER TYPE	5.3 Primer, Boxer, non corrosive	
POWDER TYPE	Spherical, Double Base Powder	
CASE MOUNTH PRESSURE	Pavg. + 3SD ≤ 4450 Bar	
PORT PRESSURE	Min. 550 Bar	
VELOCITY (M/S) AT 24 M	833 ± 15m/s	818 ± 15m/s
ACCURACY (Standart Deviation)	Max. 200 mm at 550 m	Max. 300 at 550 m
TRACE		Dim trace to min 13 m from the muzzle of the weapon, visible from max 140 m to min 600 m from the muzzle of the weapon
ACTION TIME	4 ms	
EXTRACTION FORCE	Min. 27 kgf/265N	
CARTRIDGE LENGTH	~ 71,12 mm	
WATERPROOFNESS	Applied	
TEMPERATURE RANGE	-54 °C to +52°C	
REFERANCE DONCUMKEN	AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION Aop-2310 Technical Performance Specification Providing for the Interchangeability of 7.62 mm x 51 Ammunition and Links	



12.7X99 MM



BULLET TYPE	M33 BALL	M17 TRACER BALL
BULLET WEIGHT	653 gr (~42,3 g)	618 gr (~40,0 g)
BULLET MATERIAL	Jacket – TombacCore SteelCup Closure – Lead Antimony Filler Point – Borax	Jacket – Tombac plated steel strip or copper washer steel stripCore – Lead Antimony Tracer – Tracer Comp.
CASE MATERIAL	Brass CuZn30	
CASE LENGTH	~99,31 mm	
PRIMER TYPE	12.7 mm Primer, Boxer, non-corrosive	
POWDER TYPE	Spherical, Double Base Powder	
CASE MOUTH PRESSURE	Pmax + 35d ± 4500 Bar	
PORT PRESSURE	—	
VELOCITY (m/s) at 24 m	887 ± 12 m/s	
ACCURACY (Standard Deviation)	Max. 300 mm at 550 m	Max. 400 mm at 550 m
TRACE	—	Visible trace of full luminosity from a point not greater than 200 m from muzzle, to a point not less than 1500 m from muzzle
ACTION TIME	< 4.5 ms	
Extraction Force	Min. 91.7 kgf / 900 N	
Cartridge Length	~138.4 mm	
Waterproofness	Applied	
Temperature Range	-54 °C to +52 °C	
REFERENCE DOCUMENT	AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOP) FOR SMALL ARMS AMMUNITION AOP-4383 Technical Performance Specification Providing for the Interchangeability of 12.7 mm × 99 Ammunition and Links	



Boxer PRIMERS

ZSR Boxer primers are engineered to ensure reliable and consistent ignition performance, providing controlled initiation across a wide range of ammunition applications.

With fully integrated in house primer manufacturing, ZSR maintains complete control over primer design and production from material selection to final assembly. This capability enables the consistent production of multiple primer types with controlled sensitivity and reliable performance.

PRIMER TYPES

- 4.4 SP Boxer Primer
- 4.4 SR Boxer Primer
- 5.3 Boxer Primer
- 12.7 Boxer Primer

FEATURES

- Consistent and reliable ignition performance
- Non-corrosive structure
- Stable operation in diverse environments
- High precision manufacturing standards
- Fully in-house primer production capability

APPLICATIONS

Suitable for military, law enforcement, and civilian ammunition across multiple calibers.



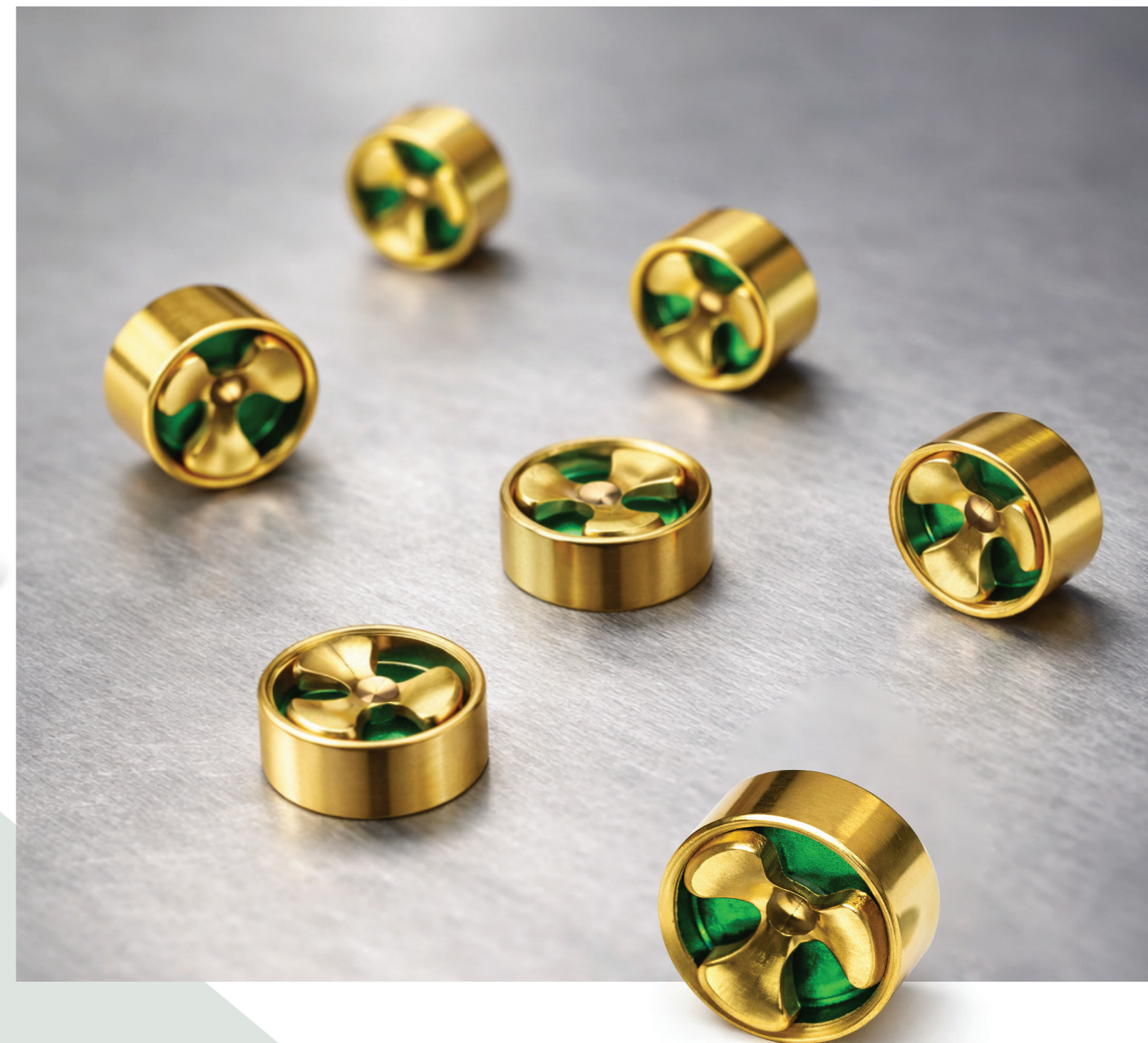
Anvil



Foil & Composition



Cup



ANTIDRONE SHOTGUN CARTRIDGES



Next Generation DEFENCE SOLUTIONS



Antidrone shotgun cartridges are design to counter low altitude aerial threats enabling effective engagement of drone targets at distances of up to 100 meters.

Featuring advanced material composition and precision manufacturing, this munition delivers reliable and consistent performance against drone targets.

- Discarding Sabot - Fragmented Kinetic Hit Design Ammunition
- Against threats & Targets: FPV Drone, Rotary Wing Drone or Fixed-Wing Drone
- Tested with 1320 bar shotguns in Single, Burst, Serial, live firing tests
- Steel Fragments Effective engagement range 100 meter in serial firing

FEATURE	ANTIDRONE SHOTSHELLS
CALIBER	12/76
CASE MATERIAL	Plastic
CASE LENGTH	76 mm – 89 mm
BRASS HEIGHT	16 mm
PROJECTILE WEIGHT	34 gr - 36 gr
MUZZLE VELOCITY	400 m/s
EFFECTIVE RANGE	0 – 100 m
WORKING CONDITIONS	Designed for 12/76, 1320 bar proof pressure





PORTFOLIO EXPANDING

New For 2026

.223 REM



New Calibers: **.223 REM**

As part of our continuous product development strategy, we are adding the .223 Rem to our small caliber ammunition portfolio in 2026.

TECHNICAL SPECIFICATIONS	
BULLET TYPE	FMJ
BULLET WEIGHT	~55 gr (~ 3.56 g)
BULLET MATERIAL	Jacket- Tombac/CuZn10 Core – Lead Antimony
CASE MATERIAL	Brass CuZn30
CASE LENGTH	~ 44.70 mm
PRIMER TYPE	4.4 Primer, Boxer, non-corrosive
POWDER TYPE	Spherical, Double Base Powder
CHAMBER PRESSURE	Max. 4300 Bar
VELOCITY (m/s) at 5 m	~ 970 m/s
ACTION TIME	Max. 3 ms
CARTRIDGE LENGTH	~57,4 mm
REFERENCE DOCUMENT	CIP





.308 WIN

PORTFOLIO EXPANDING New For 2026

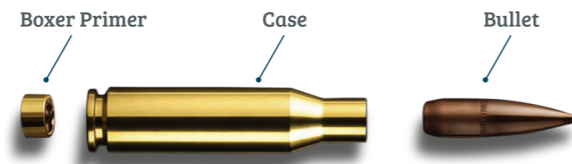


TECHNICAL SPECIFICATIONS	
BULLET TYPE	FMJ
BULLET WEIGHT	~149 gr (~ 9.65 g)
BULLET MATERIAL	Jacket- Tombac/ CuZn10 Core – Lead Antimony
CASE MATERIAL	Brass CuZn30
CASE LENGTH	~ 51.18 mm
PRIMER TYPE	5.3 Primer, Boxer, non-corrosive
POWDER TYPE	Spherical, Double Base Powder
CHAMBER PRESSURE	Max. 4150 Bar
VELOCITY (m/s) at 5 m	~ 830 m/s
ACTION TIME	Max. 4 ms
CARTRIDGE LENGTH	~71.1 mm
REFERENCE DOCUMENT	CIP



New Calibers: .308 WIN

As part of our continuous product development strategy, we are adding the .308 Win to our small caliber ammunition portfolio in 2026.



From Component to Completion FULLY INTEGRATED MANUFACTURING

In-House Production / Maximum Control / Proven Reliability

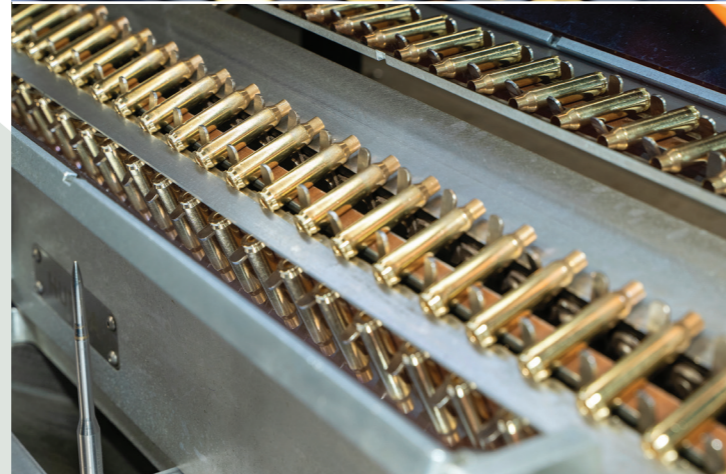
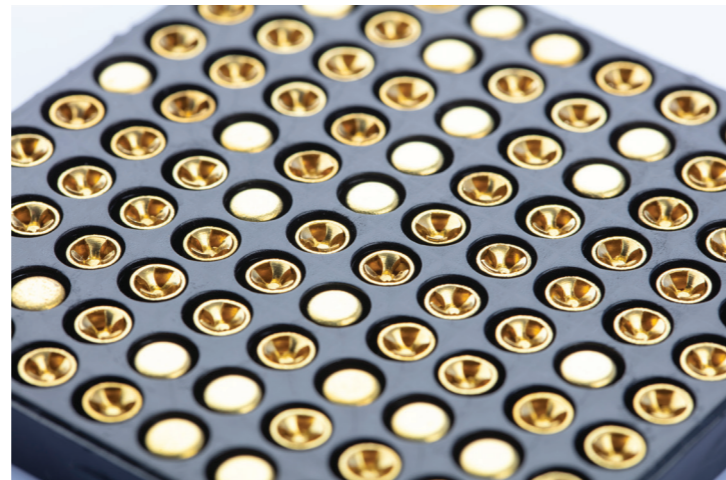
100% ZSR QUALITY Engineered into Every Component

One of ZSR's key differentiators is its fully integrated manufacturing capability, where all critical metal components are produced entirely in-house. Unlike manufacturers focused solely on loading operations, ZSR controls the complete production process - from component manufacturing to final assembly.

This end-to-end production approach ensures superior consistency, traceability, and uncompromised quality across all product lines.

Powered by continuous R&D, flexible production capabilities, and strict NATO-standard compliance, ZSR delivers ammunition engineered for reliability in the most demanding operational environments.

#wedoitoneline



COMBAT PROVEN
PERFORMANCE

ONE LINE
FULL KONTROL

ENGINEERED IN
EVERY DETAIL

Built On Precision DESIGNED FOR ITS MISSION

Every component, every process, and every cartridge is the result of a system designed for consistency, control, and performance.

From advanced manufacturing capabilities to a fully integrated production structure, ZSR combines engineering expertise and disciplined manufacturing to deliver ammunition solutions that meet the demands of modern operations.

With a portfolio designed to serve diverse operational needs, ZSR ensures that every caliber of ammunition performs with the same reliability, accuracy, and confidence, wherever it is used.

Driven by a commitment to continuous improvement and excellence, ZSR is a reliable partner for those who trust in uncompromising performance.



CERTIFICATES

- Facility Security Clearance
- SEVESO Security Report
- ISO 9001:2015
- ISO 14001:2015
- PRIMER CE
- C.I.P





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