



2022

BARNES BULLETS | PRODUCT CATALOG



BARNES®

UTAH'S HOME. ALWAYS WILL BE.

UTAH PROUD & WORLD RENOWNED.

Utah isn't just home. It's America's epicenter of ballistic science and home to the most obsessed, dedicated, and passionate group of ammunition engineers and craftsmen on the planet. Avid shooters and hunters who use what they build – honing the most accurate, most effective bullets, components and ammunition the world has ever seen. Forged here in Mona, Utah, our advancements have taken the world by storm, bringing the pinnacle of our ballistic innovation to the doorsteps of hunters worldwide.



KNOCKDOWN PACK-OUT CHAMPION OF THE WEST.

THE WORLD'S MOST PROVEN ALL-COPPER HUNTING BULLET.

Western big game hunts will challenge even the most seasoned hunter. We know because these are our stomping grounds. From traversing steep timber canyons and bugling in bull elk in heavy timber, to taking cross-canyon shots and stalking pronghorn across open plains, these hunts demand peak performance from you and your gear. That's why we make bullets purpose-built for the challenges of a western hunt. With higher weight retention and double diameter expansion, our bullets deliver terminal results at any range and any species, so when the moment of truth arrives, you'll have everything you need to tag out.

The most technologically advanced ammunition on the planet made by the most dedicated western hunters on the planet.



HUNTING

VOR-TX® LR RIFLE

16 Loaded with premium all-copper Barnes LRX bullets and designed for deadly precision at long range.



VOR-TX® HANDGUN

21 The XPB bullets deliver deep penetration and double-diameter expansion in popular calibers.



VOR-TX® RIFLE

18 Handloaded precision in a factory round super-engineered to stop big game in its tracks.



PIONEER

23 Designed specifically for lever-action rifles and revolvers, Barnes Pioneer ammunition delivers maximum terminal performance, massive expansion, and deep penetration downrange.



VOR-TX® SAFARI

20 The destructive power of TSX bullets and the virtually indestructible, straight-tracking, deep-penetrating Banded Solids.



TSX / TTSX / LRX

24 Proven to be the most accurate and lethal hunting bullets available at any ethical distance.



VOR-TX® EXPANDER SHOTSHELL

21 Polymer-tipped, all-copper slugs that deliver the high velocity, flat trajectory, and unmatched accuracy you need for deer-dropping performance.



MUZZLELOADER

25 Extreme muzzleloader precision, with awesome expansion, high weight retention and deep penetration.



PERSONAL DEFENSE

TAC-XPB

28 Large, deep hollow-point cavity bullets designed for top performance when it's most critical.



TAC-XP PISTOL

29 The all-copper construction and very large, deep hollow-point cavity expand, penetrate and perform more consistently than any personal defense product on the market.



DEFENSE BUCKSHOT

29 The terminal punch and dense consistent patterns you need when it matters most.



MATCH RANGE TARGET

PRECISION MATCH

32 For shooters who demand uncompromising performance and exceptionally accurate, long-range results.



MATCH BURNERS

33 Premium match-grade bullets for competitive and target shooting at extreme distances.



BARNES AMMUNITION

ALL-PURPOSE

37 All-purpose ammunition optimized for ultimate confidence on the range, small game, and for personal defense.





THE BARNES X BULLET



PIONEERING THE WORLD'S MOST EFFECTIVE ALL-COPPER HUNTING BULLET.

For more than 30 years since its introduction, the all-copper Barnes X Bullet has remained the first choice of serious big-game hunters. Its specially engineered razor-sharp petals produce massive wound channels even in dense, thick-skinned game. With deeper penetration, near 2X expansion and higher weight retention than virtually any other projectile on the market today. Ballistic innovation that continues to evolve over five X Bullet generations - all adding up to ammunition worthy of the most dangerous African big game, and the next deer season.



1989
X BULLET



1997
XLC



2003
TSX



2008
TTSX



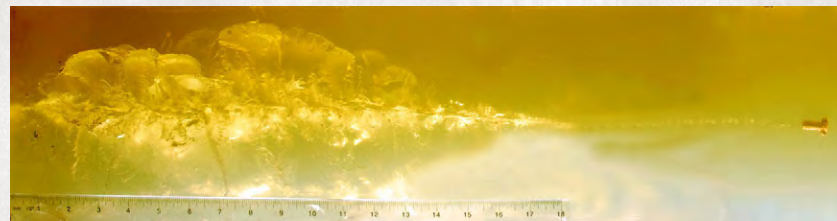
2011
LRX

The XLC Bullet featured a dry film lubricating coating designed to decrease fouling and improve velocity and accuracy. Introduced in 2003, the TSX Bullet incorporated horizontal grooves along the circumference of the bullet, which eliminated the need for a dry lubricating film. These grooves also provided a place for copper displaced by the rifling to resettle.

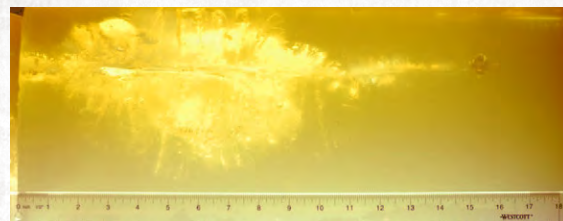
The Barnes TTSX added a blue polymer tip to the proven X Bullet equation. This tip raised the ballistic coefficient for improved flight characteristics and acted as a wedge to promote full expansion and energy transfer.

In 2011, Barnes introduced the LRX Bullet, designed for consistent terminal results at close and long range, with a bullet shape and design optimized for maximum ballistic coefficient.

**COMPETITIVE ANALYSIS
PERFORMED WITH
180 GRAIN BULLETS
FIRED FROM A 300
WIN MAG AT 300-YARD
IMPACT VELOCITY INTO
BALLISTICS GELATIN.**



Barnes all-copper TSX



Leading competitor's jacketed lead-core hunting bullet



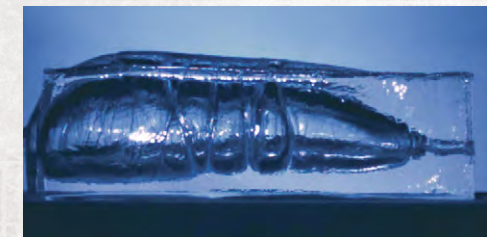
VOR-TX® 35 Whelen 180 GR Tipped TSX,
recovered from a hog

**THE BULLET IS THE LEAST
EXPENSIVE PART OF THE HUNT.
DON'T COMPROMISE.**

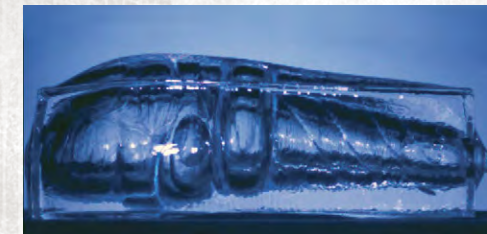
Barnes all-copper bullets expand rapidly, dump more energy and penetrate deeper than any lead-core bullet available. The Barnes all-copper bullets expand into four, five or six cutting petals that tear through tissue, bone and vital organs allowing for deeper penetration and maximum terminal performance.



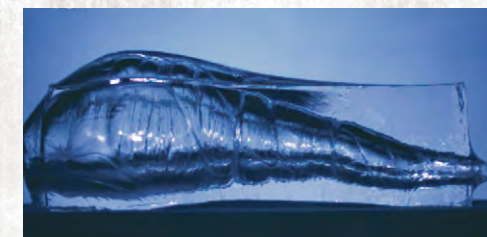
BARNES VOR-TX® LR GEL BLOCKS



Barnes VOR-TX® LR (Long Range)
6mm Creedmoor
95gr. Barnes LRX BT
Impact Distance: 500 yd.
Penetration: 20+ in.



Barnes VOR-TX® LR (Long Range)
270 Winchester
129gr. Barnes LRX BT
Impact Distance: 500 yd.
Penetration: 20+ in.



Barnes VOR-TX® LR (Long Range)
7mm Remington Magnum
139gr. Barnes LRX BT
Impact Distance: 500 yd.
Penetration: 20+ in.

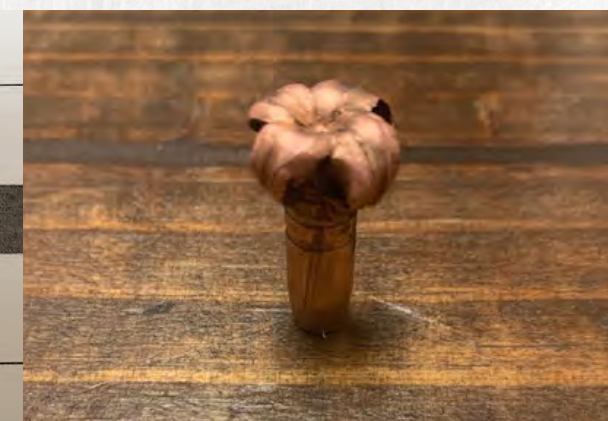
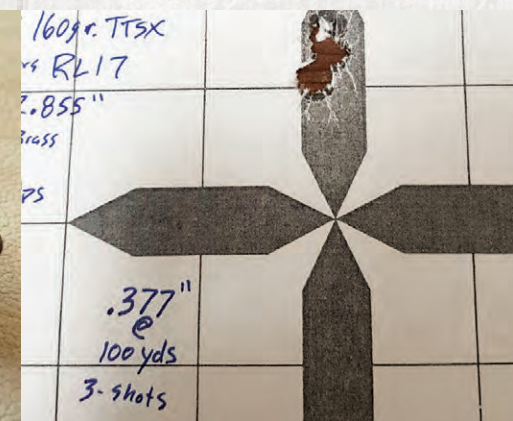


Barnes VOR-TX® LR (Long Range)
338 Remington Ultra Magnum
250gr. Barnes LRX BT
Impact Distance: 500 yd.
Penetration: 20+ in.

GG

**WHEN YOU COMBINE
PRECISION WITH
THE TERMINAL
PERFORMANCE OF
BARNES BULLETS,
YOU GET AN INSTANT
KNOCK DOWN.**

BRADY MILLER
GOHUNT DIGITAL CONTENT MANAGER
NEW MEXICO
WESTERN HUNT EXPERIENCE 2021





LOADED WITH DECADES OF ON-GAME EXPERIENCE.

At Barnes, constant innovation leads to ballistic perfection. Since 1991, we've employed aerospace technical abilities in our manufacturing process. And today, we're taking accuracy and on-game effectiveness to new levels with VOR-TX® LR. It's optimized to deliver stunning performance at close and extended ranges. As pioneers of all-copper hunting bullet technology, we are driven to achieve an unrivaled combination of precision and devastating terminal results. A reputation born of extensive testing and countless hunts. Proudly creating the most technologically advanced hunting bullets and ammunition on the planet.

AMMUNITION & COMPONENTS

VOR-TX® AMMUNITION

PIONEER AMMUNITION

TSX / TTSX / LRX

MUZZLELOADER

HUNTING



A HARD-EARNED HUNT

BRITISH COLUMBIA IS HOME TO SOME OF THE FINEST WILDERNESS ELK HUNTING IN NORTH AMERICA—AND THE MOST DIFFICULT.

Deep in the heart of the Canadian Rockies is a pristine paradise, virtually untouched and abundant in wild game. But trekking across this steep, mountainous terrain with its unpredictable weather can bring even the most seasoned hunter to their knees. A hunt of this caliber requires physical endurance, mental fortitude, and the desire to take down a true fair-chase trophy on public land.

We asked our Director of Marketing and Product Management, Mike Painter, and Outdoor Life's gear editor, Scott Einsmann, if they were up for the challenge of a lifetime—they said yes. So we gave them one month to prepare before sending them on a ten-day elk, bear, and mountain goat hunt in B.C. with Compass Mountain Outfitters.

The first day of the hunt began with a grueling 1.5-mile hike up a 60-degree slope littered with deadfall. They had to side-hill their way across steep shale walls and skip across wet rocks in the freezing rain. During the hike in, they encountered a few elk herds, but the bulls kept their distance and their cover.

Scott and Mike didn't know it at the time, but the first day of their hunt would set the stage for the rest of their trip—covering nearly 42 miles on foot through roadless backcountry with herd bulls outsmarting them at every turn. They spent the next three days at a grueling uphill march in the pouring rain, stopping only to eat, sleep, or glass for game.

It wasn't until the fifth day that their guide spotted two legal bulls in a steep clearing surrounded by heavy timber and deadfall. The only access was a steep creek bed that ran down the face of the mountain. It was clear the stalk wouldn't be easy, but bagging the trophy of a lifetime rarely is.

To get within range, they knew they needed to move quickly. Everyone grabbed their gear and hoofed it 3.5 miles to the base of the hill. Once they reached the creek bed, they stopped and took in the 70 feet of vertical shale wall between them and their elk. Then they began to climb.

The sides of the creek bed were slick with ice, making it difficult to take a step without falling back down the hill. As they climbed higher, the creek bed narrowed and the footing became increasingly unstable, causing them to fall back into the creek several times.

Before reaching the top, their guide spotted two grizzly bears on the outskirts of the clearing near the elk. The hunters were within 100 yards of two legal bulls with only one last scramble to reach the top—there was no way those bears would stop them now.

As they stepped over the top of the wall, a bugle ripped through the air. Once they caught their breath, they loaded their rifles and moved into position. The first bull stepped out only 20 yards in front of Scott. He squeezed the trigger of his .300 Win.

Mag. Tikka and a 180-grain Barnes VOR-TX® sent the bull hurling down the hill. He got in a well-placed follow-up shot right before the bull disappeared into the thick vegetation.

Mike took off in pursuit of the second legal bull, following him through a patch of pine trees. Within moments, Mike fired an off-hand shot from his 300 PRC Fierce Edge at 75 yards. His 208-grain Barnes LRX slammed through the bull's shoulder and dropped him in his tracks.

After five backbreaking days of hard hunting, Mike and Scott each took down a massive 6x6 bull within minutes of each other. They celebrated, congratulated, and enjoyed their hard-earned success, but the moment didn't last long. They all knew they had the pack out from hell ahead of them, and with the grizzlies nearby, they didn't want to leave anything behind. Instead, they decided to pack out both bulls in one painful trip.

With their packs loaded to the brim and elk antlers across their shoulders, they began their slow, treacherous hike out. As hard as it was, they kept moving forward. Before heading back home, Scott was fortunate enough to also tag out on a beautiful black bear.

From the pursuit to the pack out, every experienced hunter knows that hikes in elk country shouldn't be measured by distance but by effort, and the harder your hunt, the sweeter your success.



VOR-TX[®] LR

HUNTING AMMUNITION

SURGICAL PRECISION AND UNMATCHED TERMINAL PERFORMANCE AT EVERY DISTANCE.

VOR-TX[®] LR AMMUNITION

Target bullets with high ballistic coefficients can't be trusted to take down big-game animals quickly and humanely. VOR-TX[®] LR ammunition is loaded with premium all-copper Barnes LRX bullets specially designed not only for precision at long range but unrivaled on-game effectiveness at every range. So whether your trophy presents at close or extreme distance, you can rely on devastating terminal performance from the purpose-built LRX bullet.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 41.



MORE VOR-TX[®] LR INFO @ [BARNESBULLETS.COM](https://www.barnesbullets.com)

VOR-TX[®] HUNTING AMMUNITION 

THE ETHICAL SOLUTION TO LONG-RANGE HUNTING

As hunters, we strive to be worthy of our hunting tradition. The bullet delivers your intentions to the target, but all bullets are not designed equal.



LRX BULLETS ARE DESIGNED TO MATCH THE LATEST ADVANCEMENTS IN FIREARMS AND EXTENDED RANGE OPTICS CAPABILITIES.

Doppler radar technology was utilized in the development process to optimize the bullet's profile for low drag and top accuracy at extreme distances. Its long-range precision previously available only to handloaders - loaded and ready for your hunt today.



- Polymer tip boosts ballistic coefficient and helps initiate rapid expansion
- Specially engineered scored nose cavity expands into four razor-sharp petals and a large frontal diameter for maximum energy transfer and deep penetration on game at close and extreme distances
- Accu-Groove technology for minimal fouling and superior accuracy
- Boattail design with precision heel radius

LONG-RANGE PERFORMANCE: IT'S ALL ABOUT THE BULLET.

The all-copper LRX (Long Range X Bullet) opens instantly on impact into four razor-sharp petals that plow a wide wound channel and deposit massive amounts of energy throughout the entire length of the cavity. High weight retention sustains bullet momentum for maximum destruction of tissue, bone and vital organs to effectively and humanely take down game at close and extreme distances.



VOR-TX®

HUNTING AMMUNITION

THE PRECISION OF A HANDLOAD. *THE TERMINAL RESULTS ONLY BARNES CAN DELIVER.*

VOR-TX® Ammunition delivers handloaded precision in a factory round super-engineered to stop big game in its tracks. Expect complete penetration from our all-copper bullet technology with virtually 100% weight retention and double-diameter expansion. It's a flawless confluence of bullet integrity and predictable, bone-busting chaos that puts animals on the ground like nothing else. They're the deadliest and most accurate hunting loads on the planet.

VOR-TX® RIFLE

The whirling, destructive power of the Barnes all-copper bullets offer double-diameter expansion, maximum weight retention and excellent accuracy. These bullets provide maximum tissue and bone destruction, pass-through penetration and devastating energy transfer. Loaded with TSX, Tipped TSX and TSX FN bullets.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 41.



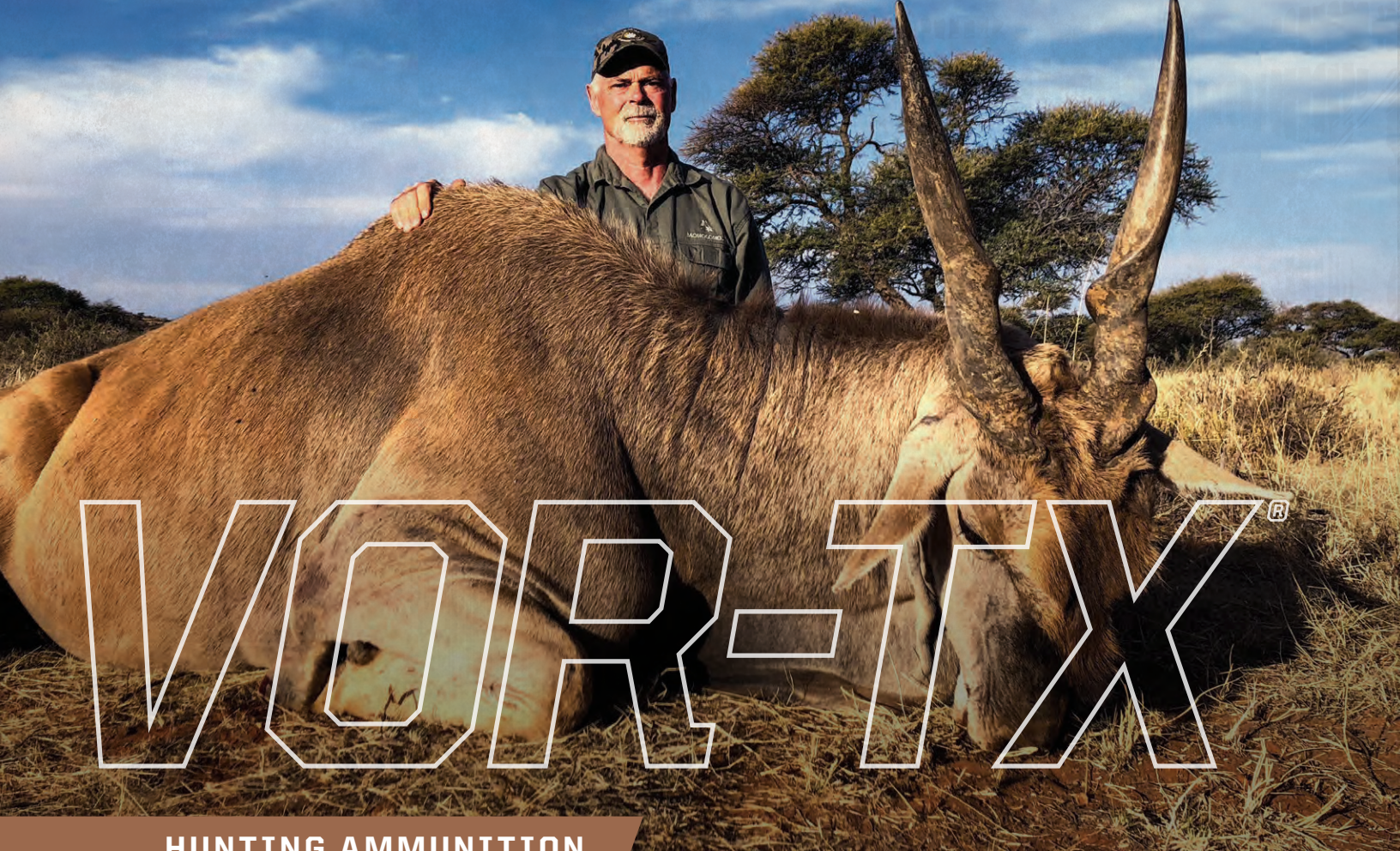
VOR-TX® 300 AAC BLACKOUT

Profile ensures flawless magazine-length loading in AR rifles. An excellent choice for whitetail, hogs and defense initiatives.

Available in 110 GR TAC-TX FB and 120 GR TAC-TX BT in VOR-TX® Ammunition and reloading components, Barnes legitimized the 300 AAC Blackout as an extremely lethal medium- and large-game hunting cartridge. Engineered exclusively for the 300 AAC Blackout, the competition doesn't hold a candle to the accuracy, terminal performance and wide range of workability the Barnes TAC-TX delivers in this cartridge.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 41.





HUNTING AMMUNITION

VOR-TX® Ammunition delivers hand-loaded precision in a factory round super-engineered to stop game in its tracks. Expect complete penetration from our all-copper bullet technology with virtually 100% weight retention and double-diameter expansion to put animals down like nothing else.

VOR-TX® SAFARI

The destructive power of TSX bullets and the virtually indestructible, straight-tracking, deep-penetrating Banded Solids.

SOLIDS AVAILABLE AGAIN IN:
375 H&H, 458 WIN AND 458 LOTT

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 42.



VOR-TX® EXPANDER SHOTSHELL

VOR-TX® Expander Shotgun slugs deliver rifle-like performance with Barnes proven on-game results engineered in. Its polymer-tipped, all-copper body produce awesome expansion, high weight retention and deep penetration – a trifecta of deer-dropping performance. With higher velocity, flatter trajectory and unmatched accuracy. Available in both 12 and 20 gauge, in 2¾" and 3".

AVAILABLE IN:
EXPANDER TIPPED, 12 GAUGE 437 GR 2¾", #20733
EXPANDER TIPPED, 12 GAUGE 437 GR 3", #20737
EXPANDER TIPPED, 20 GAUGE 250 GR 2¾", #20735
EXPANDER TIPPED, 20 GAUGE 250 GR 3", #20739

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 43.



VOR-TX® HANDGUN

The XPB bullets deliver deep penetration and double diameter expansion for maximum weight retention and DRT performance.

NOW AVAILABLE IN:
9MM, 40 S&W, 45 ACP

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 43.





PUTTING THE ACTION **BACK INTO LEVER-ACTION AMMO.**

PIONEER AMMUNITION

Barnes Pioneer is the ultimate all-copper lever gun and revolver ammunition, delivering lightning-fast follow-ups and superior on-game performance you can trust.

Whether you choose all-copper Barnes TSX[®] or our heavy for caliber jacketed lead-core Barnes Original bullet, Barnes Pioneer[™] is powerful medicine for big game, perfected for lever guns and revolvers. Delivering the massive expansion, penetration, and weight retention that built the Barnes reputation.



SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 42

CARRY ON THE LEVER-ACTION LEGACY

Bring your lever gun out of retirement—it's time to experience the superior on-game performance of Barnes Pioneer ammunition. Designed specifically for lever guns and revolvers, this ammo is carefully loaded for terminal performance and delivers massive expansion and weight retention for deeper penetration. Each round is engineered for flawless feeding and cycling from tubular magazine to chamber for lightning-fast follow-up shots.



A REPUTATION FORGED FROM *SOLID COPPER* *AND EPIC KNOCKDOWNS.*

The TSX, TTSX and LRX bullets have proven to be the most accurate and lethal hunting bullets available – a fact countless shooters have confirmed time and time again.

TSX

The deadly effectiveness of the original Barnes X Bullet with:

- All-copper construction
- Sleek profile and precision heel radius in FB and BT designs
- Accu-Groove technology for decreased fouling and top accuracy
- Devastating terminal performance
- Available in select Barnes VOR-TX® ammunition offerings



SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGES 45-46.

TIPPED TSX

All the features of the TSX Bullet, plus:

- Polymer tip that boosts B.C. and helps initiate rapid expansion
- Re-engineered nose cavity to provide faster expansion and devastating terminal performance
- Popular calibers and weights available in Barnes VOR-TX® ammunition



SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGES 44-45.

LRX

All the features of the TSX and the Tipped TSX Bullets, plus:

- Designed to match the latest advancements in firearms and extended range optics capabilities
- Re-engineered nose cavity to provide a wide range of workability for full expansion and deep penetration on game at close and extended distances
- Doppler radar technology utilized in the development process to optimize the bullet's profile for low drag and top accuracy at extended distance
- Available in select Barnes VOR-TX® LR Ammunition offerings



SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 49.

MORE TSX / TTSX / LRX INFO @ BARNESBULLETS.COM

SOLID ACCURACY, *FROM TIP TO TERMINAL* *PERFORMANCE.*

MAGNUM MZ

Delivering 100% copper bullets with higher velocity, flatter trajectory and unmatched accuracy. Its unique, magnum load sabot guides its 250 grain polymer tipped, 50-caliber bullet to the highest levels of muzzleloader precision, with awesome expansion, high weight retention and deep penetration – a trifecta of deer-dropping performance. For use in all 50-caliber muzzleloaders.

- High-tech sabot is specifically engineered to withstand magnum powder charges while, while properly sealing the bore and allowing for exceptional accuracy
- Performs well in modern super-magnum MZ rifles that generate over 35,000 psi chamber pressure
- Bullet delivers reliable expansion and deep penetration at both high and low velocities

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 48.



EXPANDER MZ

These bullets deliver deadly performance at both high and low velocities. Expand to twice their original diameter, creating six razor-sharp copper petals that slice through game. No fragmentation. These tough, deep-driving bullets typically retain 100 percent of their original weight.

SEE FULL PRODUCT LISTING ON PAGE 48.



SPIT-FIRE TMZ

The Spit-Fire TMZ shares the same boattail design and 100 percent copper construction with the Spit-Fire MZ but has a streamlined polymer tip for rapid expansion. Higher ballistic coefficient aids exceptional long-range performance.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 48.



SPIT-FIRE T-EZ

Spit-Fire T-EZ muzzleloader bullets with EZ Load sabots load easier in guns with tight bores. Ramrod pressure required to load and seat these 50 caliber flat base bullets is greatly reduced.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 48.



MORE MUZZLELOADER INFO @ BARNESBULLETS.COM



***BUILT TO
DEFEND.
ENGINEERED TO
PERFORM.***

The most technologically advanced personal defense loads and components on the market today. The result of thousands of rounds of testing, Barnes personal defense products provide maximum energy transfer and straight tracking for solid confidence in any scenario. They're optimized to meet stringent FBI protocol and law enforcement standards, and engineered to penetrate intermediate barriers with minimal deflection, Barnes personal defense loads and bullets deliver consistent, threat-stopping performance you can trust.

AMMUNITION & COMPONENTS

TAC-XPD AMMUNITION

TAC-XP HANDGUN COMPONENTS

DEFENSE BUCKSHOT

PERSONAL DEFENSE



PERSONAL DEFENSE

BARNES TAC-XPD DEFENSE

The optimized solution for personal and home defense. Engineered to deliver top performance in life-threatening situations. Nickel plated cases and coated, all-copper TAC-XP bullets produce smooth, reliable feeding with virtually no muzzle flash.

The all-copper construction and very large, deep hollow-point cavity expand, penetrate and perform more consistently than any personal defense product on the market.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 43.



TAC-XPD PERSONAL DEFENSE



PERSONAL DEFENSE OPTIMIZED.
***WE DIDN'T INVENT PERSONAL
DEFENSE AMMUNITION.
WE PERFECTED IT.***

With a large, deep hollow-point cavity, TAC-XPD ammunition is designed to deliver top performance when it's most critical.

BARNES TAC-XP PISTOL



Designed for law enforcement and personal defense, 100-percent copper TAC-XP pistol bullets meet the requirements of lead-free practice environments. They maintain their original weight and track straight after being fired through intermediate barriers like car doors, plywood and automobile windshield glass.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 49.

BARNES DEFENSE BUCKSHOT SHOTSHELLS

The massive terminal punch and dense consistent patterns you want when the stakes are at their highest. Every round of Barnes Buckshot is produced with the uncompromising precision and reliability we've built our name on, because every load just may be the one lives depend on.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 42.



MORE TAC-XPD INFO @ BARNESBULLETS.COM



PURSUE PERFECTION AT ITS FARTHEST REACHES.

Created from first quality, factory-fresh brass, temperature-stable propellants and high-ballistic-coefficient projectiles, Barnes match, range and target ammunition is the most consistent commercially manufactured ammunition on the market today. Barnes is a proud supplier of precision ammunition to America's Elite Military marksmen. Precision rifle, 3-gun and high power competitors can expect that same unwavering consistency in their chosen pursuit.

AMMUNITION & COMPONENTS

PRECISION MATCH
RIFLE AMMUNITION

MATCH BURNERS
COMPONENTS

MATCH RANGE TARGET

SEND IT WITH CONFIDENCE. *EVERY TIME.*

For shooters who demand uncompromising performance and exceptionally accurate, long-range results.

PRECISION MATCH AMMUNITION

Engineered for precision at extreme distances. Barnes' exacting manufacturing and quality standards result in low standard deviations and extreme variations. CONSISTENCY DELIVERED.

- High B.C., Match grade, OTM BT projectile for competitive and target shooting at extreme distances
- Temperature stable propellant for low extreme spreads and standard deviations
- First quality, premium brass
- Scan the QR Code located on each box to view Doppler-radar generated drop tables specific to each load
- Barnes proudly supplies precision ammunition to America's Military Elite

+ NEW FOR 2023

**300 AAC BLACKOUT SUBSONIC
220GR OTM, #32134**

SEE FULL PRODUCT AND COMPONENTS LISTING
ON PAGE 43.



DESIGNED FOR THE *COMPETITIVE SHOOTER.*

These premium bullets deliver accurate, aggressive results.

MATCH BURNERS

Barnes Match Burners feature lead-core construction with precision match-grade jackets. They offer competitive shooters the performance and consistency they demand at a competitive price. Match Burners are extremely accurate, consistent and offer high ballistic coefficients. The 6mm/.243" 112gr has a class leading BC of 0.624 (G1) and the new 6.5mm/.264" 145gr has a class leading BC of 0.703 (G1)"

Available in various calibers and optimized weights and styles to handloaders and loaded in Barnes Precision Match ammunition.

**6.5MM, 145 GR (100-ct), #30100
6.5MM, 145 GR (A 500-ct), #30102
22 CAL, 77 GR (Bulk 100-ct), #32050**

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 50.



BULK
PACKS



BARNES BALLISTIC COEFFICIENT VALIDATION. MEASURE TWICE, ESTIMATE NEVER.

Before it makes it to you, every new Barnes bullet must make it through one of the industry's most rigorous testing protocols, followed directly by another; advanced Doppler Radar. No short-distance measuring. No computer estimating. Because the smallest variations in velocity, pressure or time of flight add up to downrange differences we'll never accept, nor ask you to. Our process delivers ultimate precision for our published BC values and, most importantly, downrange.



Barnes utilizes its 300 yard indoor range to accurately measure and calculate BC values, using three variables: instrumental velocity, time of flight (TOF) and air density. Instrumental velocity and TOP are measured using commercial ballistic testing equipment, accurate within .1%. Air density is determined by carefully measuring the current temperature pressure, and humidity at our indoor range. But Barnes doesn't stop there. Even though this test method ranks among the most accurate in the industry, we confirm all data using another highly accurate measuring technique - Doppler radar.

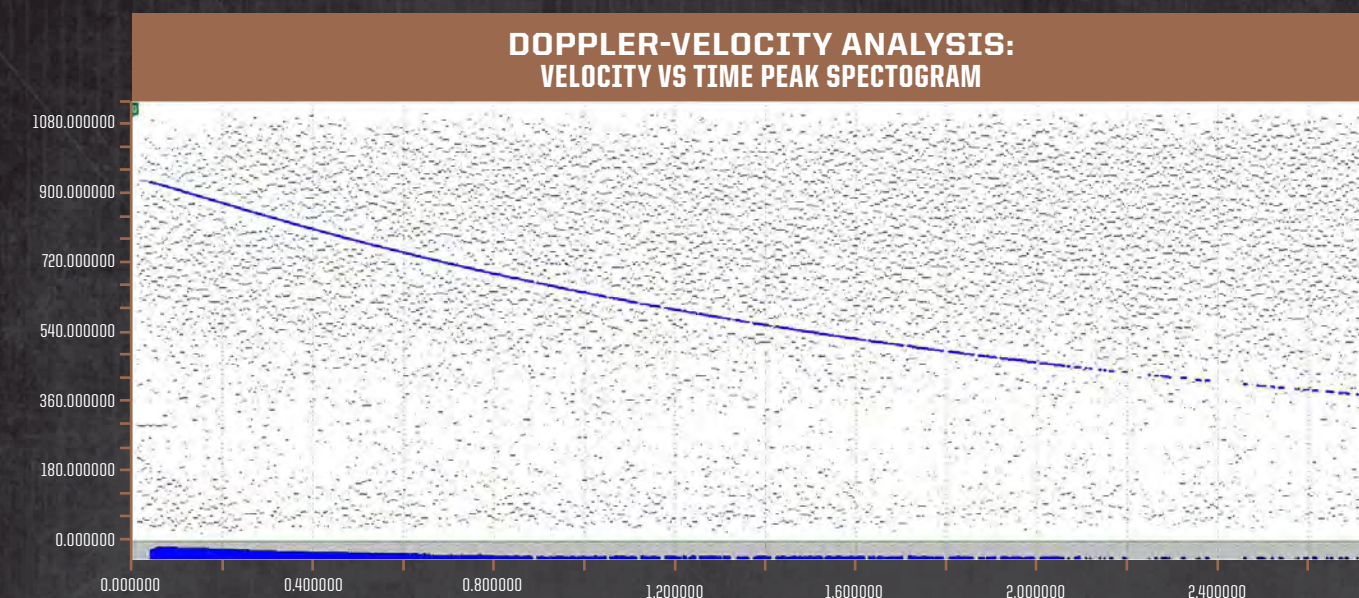
Doppler radar sends electromagnetic waves at a known frequency toward the bullet in flight. These waves reflect off the bullet, returning to the radar head where a new frequency is recorded. The change in frequency is known as the Doppler effect. From this change, the bullet's velocity and TOF are measured thousands of times,

anywhere from just in front of the muzzle to 1600+ yards downrange. Instead of measuring a single BC value, this system allows us to measure multiple drag coefficient (CD) values for the full velocity range of the flight.

The first step in post analysis to measure the CD values, is to accurately model the bullet using a 6 Degree of Freedom (DOF) software. This program accurately determines the mass properties and estimates the aerodynamic coefficients. This data is then passed into additional sophisticated software, which runs a theoretical flyout in an attempt to match the observed data. The drag curve (CD vs Mach #) is modified until the theoretical matches the observed. When the error has been minimized to a few fps, the drag curve is finalized.

From here, the BC can be calculated for a given Mach #. Barnes compares the BC value between the two test methods to determine the validity of the value. In almost every case, there is a very small error between the values and the BC value is settled upon and finalized. If not, we go back and repeat testing to ensure we're providing the most accurate data possible.

At Barnes, we take great pride in our published BC values. We're committed to providing shooters data they can trust, every time. By double checking and validating data using these two proven methods, you can be confident you're sending your best.





BARNES

AMMUNITION

THE GOLD STANDARD FOR PERFORMANCE NOW AVAILABLE IN LEAD CORE.

It's a whole new breed of lead-core ammunition with unprecedented Barnes precision in its DNA, crafted in Utah to master a wide world of applications. Barnes Ammunition is loaded with new jacketed hollow-point lead-core bullets, premium components and the same rigorous standards for shot-to-shot consistency we've built our name on. This all-purpose ammunition is optimized for ultimate confidence on the range, small game and for personal defense. With a host of new chamberings coming soon.

ALL PURPOSE AMMUNITION



BARNES AMMUNITION. MULTI-PURPOSE, *ONE HIGH STANDARD OF PERFORMANCE.*

BARNES AMMUNITION

Every round of lead-core Barnes Ammunition is carefully engineered for maximum versatility. This 55-grain jacketed hollow-point bullet delivers impressive terminal results ideal for predators, varmints and range metal, with industry-leading Barnes precision built-in. Constructed with unmatched quality control and premium components for confidence on the range, on game and for personal defense.

AVAILABLE IN .223, 243 WIN, 6.5 CREEDMOOR, 270 WIN, 308 WIN AND 300 BLACKOUT. ADDITIONAL RIFLE AND HANDGUN CALIBERS COMING SOON.



SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 42.





6.5-300 WIN
127gr LRX

300 WSM
212gr LRX

6.5 Creedmoor
R6D Prototype

270 Win
130gr TTSX

FROM THE FACTORY TO THE FIELD,
BARNES EMPLOYEES USE WHAT THEY BUILD:
***THE MOST ACCURATE,
MOST EFFECTIVE HUNTING
BULLETS ON EARTH.***



26 Nosler
R6D Prototype



50 CAL
250gr TEZ



6 Creedmoor
95gr LRX



338 RUM
250gr VOR-TX LR



308 PRC
208gr LRX



300 Win Mag
160gr VOR-TX



6 Creedmoor
95gr VOR-TX LR



300 WIN
190gr VOR-TX LR



50 CAL
250gr TEZ



338 Edge
250gr LRX



22 Creedmoor
77gr LRX



300 Win Mag
180gr TTSX



10mm Auto
155gr XPB



260 REM
100gr TTSX

FROM UTAH TO THE FIELDS &
WOODS OF EUROPE WITH
**UNMATCHED PRECISION AND
TERMINAL PERFORMANCE.**

Barnes VOR-TX® EURO delivers hand-loaded precision in a factory round super-engineered to stop European game in its tracks.



VOR-TX® EURO:

VOR-TX® EURO is precision loaded with the venerable Barnes all-copper, lead-free bullets and conforms to CIP pressure standards. This ensures safe operation and maximum ballistic potential, while offering European hunters the accuracy and terminal performance that surpasses lead-core bullets on both thin-skinned and heavy game.

SEE FULL PRODUCT AND COMPONENTS LISTING ON PAGE 43.

NOTE: VOR-TX® EURO products are not available for sale in North America.

VOR-TX® LR RIFLE CARTRIDGES

NEW

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
30830	LRX BT	127	6.5 PRC	20	65027 9	10	05027 7
30232	LRX BT	95	6mm Creedmoor	20	65129 0	10	05129 8
28986	LRX BT	127	6.5 Creedmoor	20	16512 4	10	06512 7
31198	LRX BT	129	270 Win	20	27012 5	10	07012 8
28981	LRX BT	139	7mm Remington Magnum	20	17145 3	10	07145 6
28985	LRX BT	145	7mm Remington Ultra Magnum	20	17146 0	10	07146 3
30748	LRX BT	175	30-06 Sprg	20	30617 6	10	30607 7
29013	LRX BT	190	300 Win Magnum	20	13190 7	10	03190 0
29011	LRX BT	190	300 Remington Ultra Mag	20	13019 1	10	03019 4
29061	LRX BT	250	338 Remington Ultra Magnum	20	13383 3	10	03383 6
29067	LRX BT	270	375 Remington Ultra Magnum	20	13752 7	10	03752 0

VOR-TX® RIFLE CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
22008	TSX FB	50	22-250 Remington	20	02245 8	10	12245 5
21520	TSX FB	55	223 Remington	20	02235 9	10	12235 6
31190*	TSX BT	62	5.56 x 45mm	20	15093 9	10	15093 6
31191*	TSX BT	70	5.56 x 45mm	20	15092 2	10	15092 9
21522	TTSX BT	80	243 Win	20	02438 4	10	12438 1
21557	TTSX BT	100	25-06 Remington	20	12510 4	10	02510 7
22010	TTSX BT	120	260 Remington	20	02601 2	10	12601 9
30829	TTSX BT	115	6.5 Grendel	20	65120 7	10	05120 5
30815	TTSX BT	120	6.5 Creedmoor	20	02246 5	10	12246 2
21524	TTSX BT	130	270 Win	20	02703 3	10	12703 0
21559	TSX BT	140	270 WSM	20	12705 4	10	02705 7
21561	TTSX BT	120	7mm-08 Remington	20	12843 3	10	02843 6
21526	TTSX BT	140	7mm Remington Magnum	20	02844 3	10	12844 0
21563	TTSX BT	150	7mm Remington Magnum	20	12845 7	10	02845 0
21529	TSX BT	160	7mm Remington Magnum	20	02846 7	10	12846 4
32130	TSX BT	130	6.5 PRC	20	65130 6	10	13064 1
21548	TAC-TX FB	110	300 AAC Blackout	20	13011 5	10	03011 8
30827	TAC-TX BT	120	300 AAC Blackout	20	30120 1	10	30120 8
21535	TSX FN	150	30-30 Win	20	03030 9	10	13030 6
32086	TSX FB	170	350 Legend	20	35017 9	10	17035 7
21531	TTSX BT	150	30-06 SPRG	20	03065 1	10	13065 8
21565	TTSX BT	168	30-06 SPRG	20	13067 2	10	03067 5
21533	TTSX BT	180	30-06 SPRG	20	03068 2	10	13068 9
30816	TTSX BT	130	308 Win	20	15109 7	10	15109 4
21540	TTSX BT	150	308 Win	20	03085 9	10	13085 6
21541*	TTSX BT	168	308 Win	20	03086 6	10	13086 3
21569	TTSX BT	150	300 Win Mag	20	13005 4	10	03005 7
21537	TTSX BT	165	300 Win Mag	20	03006 4	10	13006 1
21538	TTSX BT	180	300 Win Mag	20	03008 8	10	13008 5
21567	TTSX BT	150	300 WSM	20	13015 3	10	03015 6
21536	TTSX BT	165	300 WSM	20	03016 3	10	13016 0
21571	TTSX BT	165	300 Remington Ultra Magnum	20	13026 9	10	03026 2
21539	TTSX BT	180	300 Remington Ultra Magnum	20	03028 6	10	13028 3
22013	TTSX BT	180	300 Wby Magnum	20	05001 7	10	15001 4
21581	TSX FB	180	35 Whelen	20	03580 9	10	13580 6
30729	TTSX FB	200	35 Whelen	20	35200 5	10	25200 8
21575	TTSX BT	210	338 Win Mag	20	13381 9	10	03381 2
21542	TTSX BT	225	338 Win Mag	20	03382 9	10	13382 6
30727	LRX BT	280	338 Lapua Mag	20	38280 4	10	38280 1
21579	TSX FN	300	45-70 Govt	20	14573 7	10	04573 0
30838	TTSX	250	450 Bushmaster	20	45025 1	10	05025 3

TSX = TSX Bullet | FB = Flat Base | TTSX = Tipped TSX Bullet | BT = Boat Tail | FN = Flat Nose
* Special Barrel Twist Requirements: 31190 requires 1:9" twist or faster, 31191 requires 1:8" twist or faster.

VOR-TX® SAFARI RIFLE CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
22014	TSX FB	300	375 H&H Mag	20	13001 6	10	03001 9
22015	BND SLD	300	375 H&H Mag	20	13130 3	10	03130 6
22017	TSX FB	400	416 Remington Magnum	20	14164 7	10	04164 0
22018	BND SLD RN	400	416 Remington Magnum	20	14168 5	10	04168 8
22034	TSX FB	400	416 Rigby	50	14174 6	10	04174 9
22035	BND SLD RN	400	416 Rigby	20	14178 4	10	04178 7
22022	TSX FB	450	458 Win Mag	20	14562 1	10	04562 4
22023	BND SLD	450	458 Win	20	14566 9	10	04566 2
22027	TSX FB	500	458 Lott	20	14574 4	10	04574 7
22029	BND SLD	500	458 Lott	20	14578 2	10	04578 5
22030	TSX FB	500	470 Nitro Express	20	14704 5	10	04704 8
22031	BND SLD FN	500	470 Nitro Express	20	14708 3	10	04708 6
22032	TSX FB	570	500 Nitro Express 3"	20	15015 1	10	05015 4
22033	BND SLD FN	570	500 Nitro Express 3"	20	15017 5	10	05017 8

BARNES PIONEER

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
32137	TSX	150	30-30 WIN	20	30303 8	10	15303 9
32136	ORIGINAL	190	30-30 WIN	20	30302 1	10	19303 5
32139	TSX	300	45-70 GOVT	20	45706 9	10	30045 7
32138	ORIGINAL	400	45-70 GOVT	20	45705 2	10	40045 4
32141	XPB	140	357 MAGNUM	20	14358 0	10	18358 6
32140	ORIGINAL	180	357 MAGNUM	20	14357 3	10	18357 9
32143	XPB	200	45 COLT	20	45200 2	10	20451 9
32142	ORIGINAL	250	45 COLT	20	45250 7	10	25451 4

BARNES AMMUNITION

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
32002	JHP BT	55	223 Remington	20	22300 8	10	02300 4
32003	JHP BT	69	223 Remington	20	22301 5	10	02301 1
32108	JHP BT	100	243 Win	20	24310 5	10	10024 8
32109	JHP BT	140	6.5 Creedmoor	20	14065 7	10	65140 5
32110	JHP BT	130	270 Win	20	13027 6	10	27130 6
32004	JHP FB	120	300 AAC Blackout	20	12030 7	10	02030 0
32111	JHP BT	150	308 Win	20	15038 0	10	38150 0

BARNES DEFENSE BUCKSHOT

ORDER NUMBER	GAUGE	SHELL LENGTH	SHOT (OZ.)	SHOT SIZE	VELOCITY	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
32009	12	2¾"	9	00 BK	1325	5	12900 3	20	12901 0
32010	12	2¾"	8	00 BK	1200	5	12800 6	20	12801 3
32011	12	3"	15	00 BK	1225	5	12150 2	20	12151 9
32012	12	2¾"	21	4 BK	1200	5	12210 3	20	12211 0
32013	20	2¾"	17	3 BK	1140	5	12170 9	20	20171 6

TSX = TSX Bullet | FB = Flat Base | TTSX = Tipped TSX Bullet | BT = Boat Tail | FN = Flat Nose
* Special Barrel Twist Requirements: **31190** requires 1:9" twist or faster, **31191** requires 1:8" twist or faster.

VOR-TX® HANDGUN CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
32005	XPB	115	9mm Luger	20	19115 4	10	09115 7
32006	XPB	140	40 S&W	20	40140 6	10	00140 8
21543	XPB	140	357 Magnum	20	15352 7	10	05352 0
31180	XPB	155	10mm Auto	20	10155 9	10	00155 2
22037	XPB	180	41 Remington Magnum	20	15410 4	10	05410 7
21545*	XPB	225	44 Remington Magnum	20	15444 9	10	05444 2
32007	XPB	185	45 Auto	20	45185 2	10	05185 4
21547	XPB	200	45 Colt	20	15453 1	10	05453 4
22024	XPB	250	454 Casull	20	15454 8	10	05454 1

VOR-TX® EURO CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
31300	TTSX	140	7 x 64 Brenneke	20	15105 9	10	05105 2
31306	TTSX	160	8 x 57 IS	20	15104 2	10	05104 5
31312	TTSX	250	9.3 x 62mm	20	15103 5	10	05103 8
31330	TTSX	150	30-06 SPRG	20	15102 8	10	05102 1
31331	TTSX	168	30-06 SPRG	20	15101 1	10	05101 4
31333	TTSX	180	30-06 SPRG	20	15100 4	10	05100 7
31340	TTSX	130	308 Win	20	15108 0	10	05108 3
31341	TTSX	150	308 Win	20	15106 6	10	05106 9
31342*	TTSX	168	308 Win	20	15107 3	10	05107 6

TAC-XPD DEFENSE CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
21552	TAC-XP	80	380 Auto	20	13808 1	10	23808 8
21551	TAC-XP	115	9mm Luger +P	20	13511 0	10	23511 7
21550	TAC-XP	125	357 Magnum	20	13572 1	10	23572 8
21554	TAC-XP	140	40 S&W	20	14001 5	10	24001 2
21555	TAC-XP	185	45 Auto +P	20	14501 0	10	24501 7

VOR-TX® EXPANDER SHOTSHELLS

ORDER NUMBER	GAUGE	SHELL LENGTH	VELOCITY	WEIGHT (OZ.)	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
20733	12	2¾"	1450	1	5	15111 0	20	03712 4
20737	12	3"	1550	1	5	15087 8	20	13712 1
20735	20	2¾"	1800	5/8	5	15087 8	20	05020 8
20739	20	3"	1850	5/8	5	15087 8	20	15020 5

PRECISION MATCH CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
30819	OTM BT	145	6.5 PRC	20	65147 4	10	05147 2
32017	OTM BT	55	223 Remington	20	55223 8	10	22377 0
32018	OTM BT	77	223 Remington	20	05223 3	10	02377 6
30846*	OTM BT	69	5.56 x 45mm	20	15089 2	10	05089 5
30848*	OTM BT	85	5.56 x 45mm	20	15113 4	10	15113 1
30831	OTM BT	120	6.5 Grendel	20	15091 5	10	25091 2
30742	OTM BT	140	260 Remington	20	02248 9	10	12248 6
30166	OTM BT	140	6.5 Creedmoor	20	02247 2	10	12247 9
30737	OTM FB	125	300 AAC Blackout	20	30012 9	10	30002 0
32134	OTM BT	220	300 AAC Blackout	20	30022 8	10	22030 4
30818	OTM BT	175	308 Win	20	15088 5	10	15088 2
30740	OTM BT	220	300 Win Mag	20	15090 8	10	15090 5
30728	OTM BT	300	338 Lapua Mag	20	15091 5	10	15091 2

TSX = TSX Bullet | FB = Flat Base | TTSX = Tipped TSX Bullet | BT = Boat Tail | BND SLD = Banned Solids | RN = Round Nose | XPB = XPB Pistol Bullet | FN = Flat Nose
TAC-XP = TAC-XP Pistol Bullet LRX = Long Range X Bullet | OTM = Open Tip Match
* Special Barrel Twist Requirements: **21545** requires 1:20" twist or faster, **31342** requires 1:1" twist or faster, **30155** requires 1:10" twist or faster, **30846 & 30156** requires 1:9" twist or faster, **30848 & 30158** requires 1:8" twist or faster.

VARMIN-A-TOR BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30092	20 Cal	0.204"	32	Varminator HP FB	100	20432 8	10
30168	22 Cal	0.224"	40	Varminator HP FB	100	22429 6	10
30178	22 Cal	0.224"	50	Varminator HP FB	100	22442 5	10
30207	6mm	0.243"	58	Varminator HP FB	100	24329 7	10
30210	6mm	0.243"	72	Varminator HP FB	100	24339 6	10

VARMINT GRENADE (LEAD-FREE) BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30090	20 Cal	0.204"	26	Varmint Grenade FB	100	20426 7	10
30094	20 Cal	0.204"	26	Varmint Grenade FB	250	20456 4	10
30170	22 Hornet	0.224"	30	Varmint Grenade FB	100	22430 2	10
30184	22 Hornet	0.224"	30	Varmint Grenade FB	250	22446 3	10
30171	22 Cal	0.224"	36	Varmint Grenade FB	100	22436 4	10
30189	22 Cal	0.224"	36	Varmint Grenade FB	250	22456 2	10
30198*	223 Cal	0.224"	50	Varmint Grenade FB	100	22486 9	10
30201*	223 Cal	0.224"	50	Varmint Grenade FB	250	22496 8	10
30214*	6mm	0.243"	62	Varmint Grenade FB	100	24372 3	10
30217*	6mm	0.243"	62	Varmint Grenade FB	250	24392 1	10

TIPPED TSX BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30185*	22 Cal	0.224"	50	TTSX FB	50	22452 4	10
30187*	22 Cal	0.224"	55	TTSX BT	50	22453 1	10
30188*	22 Cal	0.224"	62	TTSX BT	50	22454 8	10
30208	6mm	0.243"	80	TTSX BT	50	24338 9	10
30218	25 Cal	0.257"	80	TTSX BT	50	25731 7	10
30220	25 Cal	0.257"	100	TTSX BT	50	25734 8	10
30240	6.5mm	0.264"	100	TTSX BT	50	26428 5	10
30242	6.5mm	0.264"	120	TTSX BT	50	26430 8	10
30271	270 Cal	0.277"	95	TTSX BT	50	27751 3	10
30274	270 Cal	0.277"	110	TTSX BT	50	27772 8	10
30276	270 Cal	0.277"	130	TTSX BT	50	27775 9	10
30296	7mm	0.284"	110	TTSX FB	50	28470 2	10
30298	7mm	0.284"	120	TTSX BT	50	28472 6	10
30300	7mm	0.284"	140	TTSX BT	50	28474 0	10
30303	7mm	0.284"	150	TTSX BT	50	28476 4	10
30362	30 Cal	0.308"	110	TTSX FB	50	30871 2	10
30364	30 Cal	0.308"	130	TTSX BT	50	30873 6	10
30366	30 Cal	0.308"	150	TTSX BT	50	30875 0	10
30368	30 Cal	0.308"	165	TTSX BT	50	30877 4	10
30370*	30 Cal	0.308"	168	TTSX BT	50	30878 1	10

* Special Barrel Twist Requirements: **30370** requires 1:11" twist or faster, **30198, 30201, 30214 & 30217** requires 1:10" twist or faster, **30188** requires 1:8" twist or faster, **30187** requires 1:9" twist or faster, **30185** requires 1:12" twist or faster.

TIPPED TSX BULLETS (CONT'D)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30372*	30 Cal	0.308"	180	TTSX BT	50	30879 8	10
30400	8mm	0.323"	160	TTSX BT	50	32362 3	10
30424	338 Cal	0.338"	160	TTSX FB	50	33873 3	10
30426	338 Cal	0.338"	185	TTSX BT	50	33874 0	10
30428	338 Cal	0.338"	210	TTSX BT	50	33876 4	10
30430	338 Cal	0.338"	225	TTSX BT	50	33879 5	10
30459	35 Cal	0.358"	180	TTSX FB	50	35830 4	5
30461	35 Cal	0.358"	200	TTSX BT	50	35832 8	5
30475	9.3mm	0.366"	250	TTSX BT	50	36674 3	5
30484	375 Cal	0.375"	250	TTSX BT	50	37542 4	5
30519	416 Cal	0.416"	350	TTSX BT	50	41623 3	5
30996	450 Bushmaster	0.451"	250	TTSX BT	20	45026 8	5
30642	458 SOCOM	0.458"	300	TTSX BT	50	45872 1	10

TSX BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30176	22 Cal	0.224"	45	TSX FB	50	22441 8	10
30174	22 Cal	0.224"	50	TSX FB	50	22440 1	10
30180*	22 Cal	0.224"	53	TSX FB	50	22443 2	10
30182*	22 Cal	0.224"	55	TSX FB	50	22444 9	10
30190*	22 Cal	0.224"	62	TSX BT	50	22460 9	10
30193*	22 Cal	0.224"	70	TSX BT	50	22470 8	10
30204*	22 Valkyrie	0.224"	78	TSX BT	50	22478 4	10
30212	6mm	0.243"	85	TSX BT	50	24341 9	10
31112	35 Rem	0.358"	180	TSX FN FB	50	35380 4	10
30222	25 Cal	0.257"	100	TSX BT	50	25742 3	10
30224*	25 Cal	0.257"	115	TSX FB	50	25743 0	10
30244	6.5mm	0.264"	120	TSX BT	50	26441 4	10
31140	6.5mm	0.264"	130	TSX BT	50	26443 8	10
30254	270 Cal	0.277"	85	TSX FB	50	27732 2	10
30260	270 Cal	0.277"	110	TSX BT	50	27738 4	10
30264	270 Cal	0.277"	130	TSX BT	50	27742 1	10
30266	270 Cal	0.277"	140	TSX BT	50	27744 5	10
30269*	270 Cal	0.277"	150	TSX FB	50	27746 9	10
30289	7mm	0.284"	140	TSX BT	50	28444 3	10
30293	7mm	0.284"	150	TSX BT	50	28447 4	10
30291	7mm	0.284"	160	TSX FB	50	28446 7	10
30294*	7mm	0.284"	175	TSX FB	50	28448 1	5
30334	30-30 Win	0.308"	150	TSX FN FB	50	30820 0	10
30341	30 Cal	0.308"	110	TSX FB	50	30835 4	10
32078	350 Legend	0.198"	170	TSX FB	50	35517 4	10

FB = Flat Base | BT = Boat Tail | FN = Flat Nose
* Special Barrel Twist Requirements: **30372** requires 1:11" twist or faster, **30180 & 30182** requires 1:12" twist or faster, **30204** requires 1:8" or faster, **30193** requires 1:8" twist or faster, **30190, 30224 & 30294** requires 1:9" twist or faster, **30269** requires 1:9½" twist or faster.

TSX BULLETS (CONT'D)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30345	30 Cal	0.308"	130	TSX BT	50	30838 5	10
30347	30 Cal	0.308"	150	TSX BT	50	30841 5	10
30349	30 Cal	0.308"	165	TSX BT	50	30843 9	10
30351	30 Cal	0.308"	168	TSX BT	50	30844 6	10
30353	30 Cal	0.308"	180	TSX BT	50	30846 0	10
30356*	30 Cal	0.308"	200	TSX FB	50	30848 4	10
30391	7.62 X 39	0.310"	123	TSX BT	50	31012 8	10
30393	303 Cal / 7.65mm	0.311"	150	TSX FB	50	31115 6	10
30396	8mm	0.323"	180	TSX BT	50	32306 7	10
30398	8mm	0.323"	200	TSX BT	50	32320 3	10
30408	338 Cal	0.338"	185	TSX BT	50	33843 6	10
30410	338 Cal	0.338"	210	TSX BT	50	33845 0	10
30412	338 Cal	0.338"	225	TSX FB	50	33846 7	10
30415	338 Cal	0.338"	250	TSX FB	50	33848 1	10
30417	338 Lapua Mag	0.338"	285	TSX BT	50	33850 4	10
30457	35 Cal	0.358"	225	TSX FB	50	35824 3	5
30469	9.3mm	0.366"	250	TSX FB	50	36625 5	10
30473	9.3mm	0.366"	286	TSX FB	50	36628 6	10
30486	375 Cal	0.375	235	TSX FB	50	37552 3	10
30489	375 Cal	0.375	270	TSX FB	50	37556 1	10
30491	375 Cal	0.375	300	TSX FB	50	37558 5	10
30494	375 Cal	0.375	350	TSX FB	50	37560 8	10
30514	450-400 Cal	0.410	400	TSX FB	50	41085 9	10
30516	405 Win	0.411	300	TSX FB	50	41130 6	10
30527	416 Cal	0.416	300	TSX FB	50	41683 7	10
30529	416 Cal	0.416	350	TSX FB	50	41686 8	5
30532	416 Cal	0.416	400	TSX FB	50	41689 9	5
30537	404 Jeffery	0.422	400	TSX FB	50	42340 8	10
30628	450 Bushmaster	0.451	275	TSX FB	20	45027 5	10
30615	458 Cal	0.458	300	TSX FB	50	45814 1	10
30617	458 Cal	0.458	350	TSX FB	50	45816 5	10
30619	458 Cal	0.458	450	TSX FB	50	45819 6	5
30622	458 Cal	0.458	500	TSX FB	50	45821 9	5
30629	45-70 GOVT	0.458	250	TSX FN FB	50	45841 7	10
30630	45-70 GOVT	0.458	300	TSX FN FB	50	45843 1	10
30647	470 Nitro Exp	0.474	500	TSX FB	50	47452 3	10
30688	505 Gibbs	0.505	525	TSX FB	50	50553 1	10
30692	500 Nitro Exp 3"	0.509	570	TSX FB	50	50958 4	10
30700	50 BMG	0.510	647	TSX FB	50	51062 7	10
30712	577 Nitro Exp	0.583	750	TSX FB	50	58472 7	10

FB = Flat Base | BT = Boat Tail | FN = Flat Nose
* Special Barrel Twist Requirements: **30356** requires 1:10" twist or faster.

XPB PISTOL BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30453	357 Mag	0.357"	140	XPB	20	35714 7	10
30512	41 Remington Mag	0.41"	180	XPB	20	41018 7	10
30541	44 Remington Mag	0.429"	200	XPB	20	42920 2	10
30543	44 Remington Mag	0.429"	225	XPB	20	42922 6	10
30556	45 Colt	0.451"	200	XPB	20	45116 6	10
30558	45 Colt	0.451"	225	XPB	20	45120 3	10
30562	454 Casull	0.451"	200	XPB	20	45115 9	10
30554	460 S&W Mag	0.451"	250	XPB	20	45123 4	5
30548	460 S&W Mag	0.451"	275	XPB	20	45105 0	10
30659	480 Ruger	0.475"	275	XPB	20	48010 4	10
30663	500 S&W Mag	0.500"	275	XPB	20	50025 3	10
30665	500 S&W Mag	0.500"	325	XPB	20	50026 0	5
30667	500 S&W Mag	0.500"	375	XPB	20	50028 4	5

BANDED SOLID BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30785	375 CAL	0.375"	300	BND SLD RN	50	37525 7	10
30787	375 CAL	0.375"	350	BND SLD RN	50	37527 1	10
30791	458 CAL	0.458"	450	BND SLD RN	20	45840 8	10
30792	458 CAL	0.458"	500	BND SLD RN	20	45855 4	10
30468	9.3mm	0.366"	250	BND SLD RN	50	36611 8	10
30467	9.3mm	0.366"	286	BND SLD RN	50	36612 5	10
30520	416 Cal	0.416"	350	BND SLD RN	50	41628 8	10
30526	416 Cal	0.416"	400	BND SLD RN	50	41660 8	10
30536	404 Jeffery	0.422"	400	BND SLD RN	50	42330 9	10
30649	470 Nitro Exp	0.474"	500	BND SLD FN	20	47455 4	10
30685	505 Gibbs	0.504"	525	BND SLD RN	20	50505 0	10
30690	500 Nitro Exp 3"	0.509"	570	BND SLD FN	20	50950 8	10
30694	500 Jeffery	0.510"	535	BND SLD RN	20	51003 0	10
30703	50 BMG	0.510"	750	BND SLD Bore Rider	20	51075 7	10
30707	50 BMG	0.510"	800	BND SLD Bore Rider	20	51080 1	10
30713	577 Nitro Exp	0.583"	750	BND SLD FN	20	58525 0	10
30714	600 Nitro Exp	0.618"	900	BND SLD FN	20	62025 8	10

ORIGINAL BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30360	30-30 Win	0.308"	190	Original FN FB	50	30301 4	10
30437	348 Win	0.348"	220	Original FN FB	50	34805 3	10
30438	348 Win	0.348"	250	Original FN FB	50	34810 7	10
30496	375 Win	0.375"	255	Original FN FB	50	37520 2	10
30497	38-55 Win	0.375"	255	Original FN FB	50	38551 5	10
30498	38-55 Win	0.377"	255	Original FN FB	50	38552 2	10
30611	45-70 GOVT	0.458"	300	Original Semi-Spitzer FB	50	45701 4	10

FN = Flat Nose | FB = Flat Base | BT = Boat Tail | BND SLD = Banded Solids | RN = Round Nose | XPB = X Pistol Bullet

ORIGINAL BULLETS (CONT'D)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30612	45-70 GOVT	0.458"	300	Original FN FB	50	45702 1	10
30613	45-70 GOVT	0.458"	400	Original Semi-Spitzer FB	50	45703 8	10
30614	45-70 GOVT	0.458"	400	Original FN FB	50	45704 5	10
30682	50-110 Win	0.510"	300	Original FN FB	20	50111 3	10
30683	50-110 Win	0.510"	450	Original FN FB	20	50112 0	10

BUSTER BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30545	44 Remington MAG	0.429"	300	Buster FN FB	50	42982 0	10
30572	454 Casull	0.451"	325	Buster FN FB	50	45135 7	10
30644	45-70 GOVT	0.458"	400	Buster FN FB	50	45884 4	10
30672	500 S&W Mag	0.500"	400	Buster FN FB	50	50040 6	10

MUZZLELOADER BULLETS

ORDER NUMBER	CALIBER	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET STYLE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30506	45 Cal	0.400"	195	Expander MZ FB	15	40016 4	10
30509	45 Cal	0.400"	195	Expander MZ FB	24	40052 2	10
30564	50 Cal	0.451"	250	Expander MZ FB	15	45126 5	10
30577	50 Cal	0.451"	250	Expander MZ FB	24	45152 4	10
30589	50 Cal	0.451"	250	TMZ BT	15	45172 2	10
30598	50 Cal	0.451"	250	TMZ BT	24	45180 7	10
30587	50 Cal	0.451"	250	T-EZ FB	15	45171 5	10
30601	50 Cal	0.451"	250	T-EZ FB	24	45182 1	10
30594	50 Cal	0.451"	290	TMZ BT	15	45175 3	10
30604	50 Cal	0.451"	290	TMZ BT	24	45190 6	10
30592	50 Cal	0.451"	290	T-EZ FB	15	45174 6	10
30607	50 Cal	0.451"	290	T-EZ FB	24	45192 0	10
32014	50 Cal	0.451"	250	Magnum MZ FB	24	45125 8	10
30569	50 Cal	0.451"	300	Expander MZ FB	15	45131 9	10
30583	50 Cal	0.451"	300	Expander MZ FB	24	45162 3	10
30674	54 Cal	0.500"	275	Expander MZ FB	15	50041 3	10
30679	54 Cal	0.500"	275	Expander MZ FB	24	50052 9	10
30676	54 Cal	0.500"	325	Expander MZ FB	15	50045 1	10
30680	54 Cal	0.500"	325	Expander MZ FB	24	50054 3	10

FN = Flat Nose | FB = Flat Base

TAC-TX BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30321	300 AAC Blackout	0.308"	110	TAC-TX FB	50	30811 8	10
30320	300 AAC Blackout	0.308"	120	TAC-TX BT	50	30812 5	10
31142	6.5mm	0.264"	115	TAC-TX BT	50	26409 4	10

TAC-XP PISTOL BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30440	380 Auto	0.355"	80	TAC-XP FB	40	35500 6	10
30444	9mm Luger	0.355"	95	TAC-XP FB	40	35502 0	10
30442	9mm Luger	0.355"	115	TAC-XP FB	40	35501 3	10
30446	357 Sig	0.355"	125	TAC-XP FB	40	35503 7	10
30449	38 Spl	0.357"	110	TAC-XP FB	40	35703 1	10
30451	357 Mag	0.357"	125	TAC-XP FB	40	35713 0	10
30500	10mm Auto/40 S&W	0.400"	125	TAC-XP FB	40	40003 4	10
30502	10mm Auto/40 S&W	0.400"	140	TAC-XP FB	40	40005 8	10
30504	10mm Auto	0.400"	155	TAC-XP FB	40	40006 5	10
30539	44 S&W Spl	0.429"	200	TAC-XP FB	40	42912 7	10
30550	45 Auto	0.451"	160	TAC-XP FB	40	45106 7	10
30552	45 Auto	0.451"	185	TAC-XP FB	40	45108 1	10

LRX (LONG-RANGE X) BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30479	25 Cal	0.257"	101	LRX BT	50	25711 9	10
30311*	30 Cal	0.308"	208	LRX BT	50	30209 3	10
30881*	22 Cal	0.224"	77	LRX BT	50	22477 7	10
30862*	6mm	0.243"	95	LRX BT	50	24395 2	10
30228*	6.5mm	0.264"	127	LRX BT	50	26403 2	10
30262	270 Cal	0.277"	129	LRX BT	50	27740 7	10
32112	270 Cal	0.277"	155	LRX BT	50	27150 4	10
30295	7mm	0.284"	139	LRX BT	50	12841 9	10
30282	7mm	0.284"	145	LRX BT	50	28404 7	10
30284*	7mm	0.284"	168	LRX BT	50	28407 8	10
30318*	30 Cal	0.308"	175	LRX BT	50	30807 1	10
30377*	30 Cal	0.308"	190	LRX BT	50	30819 4	10
30374*	30 Cal	0.308"	200	LRX BT	50	30880 4	10
30376*	30 Cal	0.308"	212	LRX BT Bore Rider	50	30212 3	10
31150	338 Cal	0.338"	250	LRX BT	50	23382 3	10
30434	338 Lapua Mag	0.338"	265	LRX BT	50	33882 5	10
30432	338 Lapua Mag	0.338"	280	LRX BT	50	33881 9	10
30483	375 Cal	0.375"	270	LRX BT	50	23752 4	10

TSX = TSX Bullet | FB = Flat Base | TTSX = Tipped TSX Bullet | BT = Boat Tail | BND SLD = Banned Solids | RN = Round Nose | XPB = XPB Pistol Bullet | FN = Flat Nose

TAC-XP = TAC-XP Pistol Bullet LRX = Long Range X Bullet | OTM = Open Tip Match

* Special Barrel Twist Requirements: **30846** requires 1:9" twist or faster, **30848** requires 1:8" twist or faster, **30158** requires 1:8" twist or faster, **30156** requires 1:9" twist or faster, **30155** requires 1:10" twist or faster.

LRX = Long Range X bullet | FB = Flat Base | BT = Boat Tail | FN = Flat Nose

* Special Barrel Twist Requirements: **30881** requires 1:7" twist or faster, **30864** requires 1:7.5" twist or faster, **30228**, **30284**, **30376**, **30862**, **30100**, **31122 6** **30102** requires 1:8" twist or faster, **30311** requires 1:8.5" twist or faster, **30195**, **30164**, **30206 6** **31120** requires 1:9" twist or faster, **30374**, **30377 6** **30162** requires 1:10" twist or faster, **30318** requires 1:11" twist or faster.

MATCH BURNERS BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30160	22 Cal	0.224"	52	Match Burner OTM FB	100	22413 5	10
30162*	22 Cal	0.224"	69	Match Burner OTM BT	100	22415 9	10
30164*	22 Cal	0.224"	85	Match Burner OTM BT	100	22417 3	10
30205	6mm	0.243"	68	Match Burner OTM FB	100	24313 6	10
30206*	6mm	0.243"	105	Match Burner OTM BT	100	24316 7	10
30864*	6mm	0.243"	112	Match Burner OTM BT	100	24311 2	10
30234	6.5mm	0.264"	120	Match Burner OTM BT	100	26401 8	10
30230	6.5mm	0.264"	140	Match Burner OTM BT	100	26404 9	10
30100*	6.5mm	0.264"	145	Match Burner OTM BT	100	26407 0	10
30285	7mm	0.284"	171	Match Burner OTM BT	100	28414 6	10
30381	30 Cal	0.308"	155	Match Burner OTM BT	100	30892 7	10
30385	30 Cal	0.308"	175	Match Burner OTM BT	100	30896 5	10

MATCH BURNERS BULK PACKS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
31120*	6mm	0.243"	105	Match Burner BT	500	22413 5	2
31122*	6mm	0.243"	112	Match Burner BT	500	22415 9	2
31144	6.5mm	0.264"	140	Match Burner BT	500	22417 3	2
30102*	6.5mm	0.264"	145	Match Burner BT	500	26408 7	2

MPG BULLETS (MULTI-PURPOSE GREEN, LEAD-FREE)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30195*	223 Cal / 5.56mm	0.224"	55	MPG FB	100	22476 0	10
30249	6.8mm	0.277"	85	MPG FB	100	27701 8	10
30331	30 Cal	0.308"	150	MPG FB	50	30817 0	10
30388	7.62 X 39mm	0.310"	108	MPG FB	50	31008 1	10

BORE CLEANER

ORDER NUMBER	DESCRIPTION	UPC BOX 7 16876	BOXES PER CASE
30756	CR-10 Bore Cleaner 2 Oz Bottle	00210 8	10
30755	CR-10 Bore Cleaner 8 Oz Bottle	00810 0	10

MUZZLELOADER TOOLS

ORDER NUMBER	DESCRIPTION	UPC BOX 7 16876	BOXES PER CASE
30547	45 CAL MZ Aligner Tool	04500 6	10
30661	50 CAL MZ Aligner Tool	05000 0	10
30678	50 CAL SPTF Aligner Tool	05005 5	10
30763	50 CAL TMZ 6 T-EZ Aligner Tool	05007 9	10
30708	54 CAL MZ Aligner Tool	05400 8	10

CENTERFIRE RIFLE BALLISTICS

CARTRIDGE	ORDER NUMBER	WT. (GR)	BULLET STYLE	SIGHT HEIGHT (INCHES)	ZERO (YARDS)	VELOCITY (FPS)				ENERGY (FT-LB)				TRAJECTORY (INCHES)				BALLISTIC COEFFICIENT
						MZL	100	200	300	MZL	100	200	300	MZL	100	200	300	
223 Remington	21520	55	TSX FB	1.5	200	3240	2774	2353	1970	1282	940	676	474	-1.5	1.5	0.0	-7.9	0.209
	32017	55	MATCH BURNER OTM BT	1.5	100	3240	2820	2436	2084	1282	971	725	531	-1.5	0.0	-2.9	-11.7	0.233
	32002	55	JHP BT	1.5	200	3240	2820	2436	2084	1282	971	725	531	-1.5	1.5	0.0	-7.4	0.233
	32003	69	JHP BT	1.5	200	3000	2715	2447	2195	1379	1130	918	738	-1.5	1.5	0.0	-13.8	0.330
	32018	77	MATCH BURNER OTM BT	1.5	100	2680	2428	2190	1966	1228	1008	820	591	-1.5	0.0	-4.4	-16.1	0.349
5.56 x 45mm	31190	62	TSX BT	2.5	200	3000	2674	2370	2086	1239	984	773	599	-2.5	1.2	0.0	-7.4	0.287
	30846	69	MATCH BURNER OTM BT	2.0	100	2900	2621	2359	2111	1289	1053	853	683	-2.0	0.0	-3.1	-12.4	0.330
	31191	70	TSX BT	2.5	200	2850	2568	2303	2054	1263	1026	825	656	-2.5	1.4	0.0	-8.0	0.323
	30848	85	MATCH BURNER OTM BT	2.0	100	2600	2385	2180	1986	1276	1074	897	745	-2.0	0.0	-4.1	-15.6	0.403
22-250 Remington	22008	50	TSX FB	1.5	200	3830	3267	2771	2326	1629	1185	853	601	-1.5	0.9	0.0	-5.5	0.197
6mm Creedmoor	30830	95	LRX BT	1.5	200	3150	2925	2711	2507	2094	1805	1551	1326	-1.5	0.6	0.0	-6.0	0.436
	30814	112	MATCH BURNER OTM BT	2.0	100	2960	2808	2662	2520	2180	1961	1763	1580	-2.0	0.0	-2.4	-9.7	0.624
243 Win	21522	80	TTSX BT	1.5	200	3350	3042	2755	2486	1994	1644	1349	1098	-1.5	1.1	0.0	-5.7	0.331
	32108	100	JHP BT	1.5	200	2960	2721	2495	2280	1946	1645	1383	1154	-1.5	1.6	0.0	-7.2	0.393
25-06 Remington	21557	100	TTSX BT	1.5	200	3225	2947	2686	2439	2310	1929	1602	1322	-1.5	1.3	0.0	-6.1	0.357
6.5 Grendel	30829	115	TAC-TX BT	1.5	200	2590	2367	2155	1954	1713	1431	1186	975	-1.5	2.4	0.0	-9.9	0.387
	30831	120	MATCH BURNER OTM BT	2.0	100	2580	2408	2233	2065	1788	1545	1329	1173	-2.0	0.0	-4.0	-15.0	0.476
6.5 Creedmoor	30815	120	TTSX BT	1.5	200	2910	2685	2470	2266	2257	1921	1626	1368	-1.5	1.7	0.0	-7.4	0.412
	28986	127	LRX BT	1.5	200	2825	2654	2466	2285	2291	1986	1715	1473	-1.5	1.7	0.0	-7.5	0.468
	32109	140	JHP BT	1.5	200	2700	2542	2390	2242	2267	2009	1776	1564	-1.5	1.9	0.0	-8.0	0.565
	30166	140	MATCH BURNER OTM BT	2.0	100	2700	2548	2400	2258	2267	2019	1791	1585	-2.0	0.0	-3.4	-12.8	0.586
260 Remington	22010	120	TTSX BT	1.5	200	2950	2723	2506	2300	2319	1976	1674	1410	-1.5	1.6	0.0	-7.1	0.412
	30742	140	MATCH BURNER OTM BT	2.0	100	2735	2581	2433	2290	2326	2071	1841	1631	-2.0	0.0	-3.2	-12.3	0.586
6.5 PRC	32130	130	TSX BT	1.5	200	3010	2779	2560	2351	2616	2230	1892	1595	-1.5	1.5	0.0	-6.8	0.411
270 Win	31198	129	LRX BT	1.5	129	3140	2928	2726	2533	2825	2457	2130	1839	-1.5	1.3	0.0	-6.0	0.463
	32110	130	JHP BT	1.5	200	3060	2837	2624	2421	2704	2323	1988	1692	-1.5	1.4	0.0	-6.5	0.430
	21524	130	TTSX BT	1.5	200	3140	2891	2655	2432	2847	2413	2036	1708	-1.5	1.3	0.0	-6.3	0.392
270 WSM	21559	140	TTSX BT	1.5	200	3135	2893	2665	2447	3056	2603	2208	1862	-1.5	1.3	0.0	-6.2	0.404
280 Remington	22011	140	TTSX BT	1.5	200	2985	2756	2538	2331	2771	2362	2003	1689	-1.5	1.5	0.0	-7.0	0.412
7mm-08 Remington	21561	120	TTSX BT	1.5	200	3005	2751	2512	2284	2407	2018	1682	1391	-1.5	1.6	0.0	-7.1	0.373
7mm Remington Magnum	28981	139	LRX BT	1.5	200	3210	2998	2796	2603	3181	2775	2413	2091	-1.5	1.2	0.0	-5.6	0.470
	21526	140	TTSX BT	1.5	200	3100	2865	2642	2429	2988	2552	2170	1835	-1.5	1.4	0.0	-6.4	0.412
	21563	150	TTSX BT	1.5	200	3060	2846	2642	2448	3120	2699	2326	1996	-1.5	1.4	0.0	-6.4	0.450
	21529	160	TSX BT	1.5	200	2950	2738	2536	2343	3093	2664	2286	1951	-1.5	1.6	0.0	-7.0	0.443
7mm Remington Ultra Mag	28985	145	LRX BT	1.5	200	3350	3138	2936	2743	3613	3170	2775	2422	-1.5	1.0	0.0	-5.1	0.486
300 AAC Blackout	21548	110	TAC-TX FB	2.5	100	2350	2070	1810	1574	1349	1046	800	606	-2.5	0.0	-5.7	-22.0	0.289
	32004	120	JHP FB	2.5	100	2100	1845	1611	1406	1175	907	692	527	-2.5	0.0	-7.8	-29.0	0.297
	30827	120	TAC-TX BT	2.5	100	2100	1887	1688	1507	1175	949	760	605	-2.5	0.0	-2.3	-26.9	0.358
	30737	125	MATCH BURNER OTM	2.5	100	2175	1921	1686	1476	1313	1024	789	605	-2.5	0.0	-7.0	-26.3	0.305
	32134	220	MATCH BURNER OTM	2.5	100	995	964	936	911	484	454	426	406	-2.5	0.0	-34.9	-109.4	0.611

NOTE: Centerfire rifle ballistics were generated with a test barrel length of 24" except 5.56 x 45mm which used a 20" barrel and 300 AAC Blackout which used a 16" barrel. Use only in firearms designated for this cartridge and so recommended by the manufacturer. Specifications are nominal ballistics figures established in test barrels. Individual firearm may vary from test barrel results. 0.0 indicates yardage at which firearm was sighted in. Requires a 1:8" barrel twist rate or faster: VOR-TX® 5.56X45mm 85 grain TSX, Precision Match 5.56 x 45mm 85 grain OTM BT Requires a 1:9" barrel twist rate or faster: VOR-TX® 5.56 x 45mm 62 grain TSX, 5.56 x 45mm 69 grain OTM BT Requires a 1:11" barrel twist rate or faster: VOR-TX® 308 win 168 grain TSX

For additional ballistics information, refer to the product pages at [barnesbullets.com](#)

- VOR-TX® RIFLE
- VOR-TX® SAFARI
- PRECISION MATCH
- VOR-TX® LR
- BARNES AMMO

CENTERFIRE RIFLE BALLISTICS (CONT'D)

CARTRIDGE	ORDER NUMBER	WT. (GR)	BULLET STYLE	SIGHT HEIGHT (INCHES)	ZERO (YARDS)	VELOCITY (FPS)				ENERGY (FT-LB)				TRAJECTORY (INCHES)				BALLISTIC COEFFICIENT
						MZL	100	200	300	MZL	100	200	300	MZL	100	200	300	
30-30 Win	21535	150	TSX FN	0.9	100	2335	1905	1532	1237	1816	1209	782	510	-0.9	0.0	-8.8	-32.7	0.184
30-06 Sprg	21531	150	TTSX BT	1.5	200	3000	2784	2579	2382	2998	2583	2216	1891	-1.5	1.5	0.0	-6.7	0.440
	21565	168	TTSX BT	1.5	200	2850	2654	2467	2288	3031	2629	2271	1953	-1.5	1.7	0.0	-7.4	0.470
	30748	175	LRX BT	1.5	200	2800	2621	2449	2283	3047	2670	2330	2026	-1.5	1.8	0.0	-7.6	0.508
	21533	180	TTSX BT	1.5	200	2750	2564	2386	2215	3023	2629	2276	1961	-1.5	1.9	0.0	-8.0	0.484
300 Win Mag	21569	150	TTSX BT	1.5	200	3285	3044	2816	2600	3595	3087	2643	2252	-1.5	1.1	0.0	-5.5	0.420
	21537	165	TTSX BT	1.5	200	3120	2899	2690	2489	3567	3081	2651	2271	-1.5	1.3	0.0	-6.1	0.442
	21538	180	TTSX BT	1.5	200	2960	2765	2579	2400	3503	3057	2659	2303	-1.5	1.5	0.0	-6.8	0.484
	29013	190	LRX BT	1.5	200	2880	2786	2516	2345	3500	3064	2672	2321	-1.5	1.7	0.0	-7.2	0.499
	30740	220	MATCH BURNER OTM BT	2.0	100	2775	2633	2494	2360	3763	3388	3039	2721	-2.0	0.0	-3.0	-11.6	0.611
300 WSM	21567	150	TTSX BT	1.5	200	3310	3068	2839	2621	3650	3136	2685	2289	-1.5	1.1	0.0	-5.4	0.420
	21536	165	TTSX BT	1.5	200	3130	2909	2699	2498	3590	3101	2669	2286	-1.5	1.3	0.0	-6.1	0.442
308 Win	30816	130	TTSX BT	1.5	200	3125	2848	2587	2341	2820	2342	1933	1583	-1.5	1.4	0.0	-6.6	0.350
	32111	150	JHP BT	1.5	200	2099	2657	2427	2209	2802	2353	1963	1626	-1.5	1.7	0.0	-7.6	0.381
	21540	150	TTSX BT	1.5	200	2900	2689	2488	2295	2802	2409	2062	1755	-1.5	1.7	0.0	-7.3	0.440
	21541	168	TTSX BT	1.5	200	2700	2511	2330	2156	2720	2352	2025	1734	-1.5	2.0	0.0	-8.4	0.470
	30818	175	MATCH BURNER OTM BT	2.0	100	2600	2432	2289	2111	2627	2298	2000	1731	-2.0	0.0	-3.9	-14.5	0.521
300 Wby Mag	22013	180	TTSX BT	1.5	200	3100	2899	2707	2523	3842	3360	2930	2545	-1.5	1.3	0.0	-6.1	0.484
300 Remington Ultra Magnum	21571	165	TTSX BT	1.5	200	3350	3117	2897	2687	4113	3561	3076	2646	-1.5	1.0	0.0	-5.2	0.442
	21539	180	TTSX BT	1.5	200	3225	3018	2821	2632	4158	3642	3181	2770	-1.5	1.2	0.0	-5.5	0.484
	29011	190	LRX BT	1.5	200	3125	2943	2769	2602	4121	3656	3236	2856	-1.5	1.3	0.0	-5.8	0.540
338 Win Mag	21575	210	TTSX BT	1.5	200	2865	2674	2490	2314	3828	3334	2892	2498	-1.5	1.7	0.0	-7.3	0.482
	21542	225	TTSX BT	1.5	200	2800	2623	2453	2289	3918	3438	3006	2618	-1.5	1.8	0.0	-7.6	0.514
338 Remington Ultra Mag	29061	250	LRX BT	1.5	200	2910	2755	2604	2459	4702	4213	3766	3358	-1.5	1.5	0.0	-6.7	0.602
338 Lapua Mag	30737	280	LRX BT	1.5	200	2600	2469	2341	2218	4204	3791	3410	3059	-1.5	2.1	0.0	-8.5	0.667
	30728	300	MATCH BURNER OTM BT	2.0	100	2600	2483	2369	2258	4504	4108	3739	3396	-2.0	0.0	-3.6	-13.4	0.716
350 Legend	32078	170	TSX FB	1.5	100	2125	1747	1424	1177	1705	1152	765	526	-1.5	0.0	-10.1	-37.5	0.198
35 Whelen	21581	180	TTSX FB	1.5	200	2900	2589	2299	2027	3362	2680	2112	1643	-1.5	1.9	0.0	-8.5	0.295
	30729	200	TTSX FB	1.5	200	2700	2460	2233	2018	3238	2689	2216	1810	-1.5	0.0	-4.3	-15.5	0.369
375 H&H Mag	22014	300	TSX FB	1.5	100	2540	2301	2075	1863	4299	3529	2870	2313	-1.5	0.0	-5.1	-18.3	0.357
375 Remington Ultra Mag	29067	270	LRX BT	1.5	200	2980	2770	2569	2377	5325	4600	3957	3387	-1.5	1.5	0.0	-6.8	0.449
416 Remington Magnum	22017	400	TSX FB	1.5	100	2420	2208	2007	1817	5203	4391	3577	2932	-1.5	0.0	-5.7	-20.0	0.392
	22018	400	BANDED SOLID	1.5	100	2420	2105	1816	1556	5203	3938	2930	2151	-1.5	0.0	-6.4	-23.4	0.261
416 Rigby	22034	400	TSX FB	1.5	100	2400	2189	1989	1800	5117	4257	3513	2878	-1.5	0.0	-5.8	-20.4	0.392
	22035	400	BANDED SOLID	1.5	100	2400	2087	1799	1541	5117	3869	2876	2110	-1.5	0.0	-6.6	-23.9	0.261
45-70 Govt	21579	300	TSX FN †	0.9	100	1925	1505	1189	1008	2469	1509	942	676	-0.9	0.0	-14.7	-54.0	0.163
450 Bushmaster	32085	250	XFB	2.5	100	2250	1812	1440	1164	2811	1823	1152	752	-2.5	0.0	-8.8	-33.6	0.176
458 Win Mag	22022	500	TSX FB	1.5	100	2240	2025	1822	1634	5015	4097	3319	2670	-1.5	0.0	-7.0	-24.5	0.369

NOTE: Centerfire rifle ballistics were generated with a test barrel length of 24" except 5.56 x 45mm which used a 20" barrel and 300 AAC Blackout which used a 16" barrel. Use only in firearms designated for this cartridge and so recommended by the manufacturer. Specifications are nominal ballistics figures established in test barrels. Individual firearm may vary from test barrel results. 0.0 indicates yardage at which firearm was sighted in. Requires a 1:8" barrel twist rate or faster: VOR-TX® 5.56X45mm 85 grain TSX, Precision Match 5.56 x 45mm 85 grain OTM BT Requires a 1:9" barrel twist rate or faster: VOR-TX® 5.56 x 45mm 62 grain TSX, 5.56 x 45mm 69 grain OTM BT Requires a 1:11" barrel twist rate or faster: VOR-TX® 308 win 168 grain TSX

For additional ballistics information, refer to the product pages at [barnesbullets.com](#)

- VOR-TX® RIFLE
- VOR-TX® SAFARI
- PRECISION MATCH
- VOR-TX® LR
- BARNES AMMO

CENTERFIRE RIFLE BALLISTICS (CONT'D)

CARTRIDGE	ORDER NUMBER	WT. (GR)	BULLET STYLE	SIGHT HEIGHT (INCHES)	ZERO (YARDS)	VELOCITY (FPS)				ENERGY (FT-LB)				TRAJECTORY (INCHES)				BALLISTIC COEFFICIENT
						MZL	100	200	300	MZL	100	200	300	MZL	100	200	300	
458 Lott	22027	500	TSX FB	1.5	100	2210	2018	1837	1667	5424	4523	3745	3084	-1.5	0.0	-7.0	-24.5	0.412
470 Nitro Express	22030	500	TSX FB	1.5	100	2150	1936	1737	1554	5133	4164	3350	2680	-0.9	0.0	-8.4	-28.4	0.363
	22031	500	BANDED SOLID	1.5	100	2150	1836	1556	1319	5133	3744	2688	1932	-0.9	0.0	-9.5	-33.5	0.243
500 Nitro Express 3"	22032	570	TSX FB	1.5	100	2100	1893	1700	1523	5583	4536	3657	2935	-0.9	0.0	-8.8	-29.8	0.389
	22033	570	BANDED SOLID	1.5	100	2100	1791	1516	1287	5583	4060	2911	2098	-0.9	0.0	-10.0	-35.3	0.243

NOTE: Centerfire rifle ballistics were generated with a test barrel length of 24" except 5.56 x 45mm which used a 20" barrel and 300 AAC Blackout which used a 16" barrel. Use only in firearms designated for this cartridge and so recommended by the manufacturer. Specifications are nominal ballistics figures established in test barrels. Individual firearm may vary from test barrel results. 0.0 indicates yardage at which firearm was sighted in. Requires a 1:8" barrel twist rate or faster: VOR-TX® 5.56X45mm 85 grain TSX, Precision Match 5.56 x 45mm 85 grain OTM BT Requires a 1:9" barrel twist rate or faster: VOR-TX® 5.56 x 45mm 62 grain TSX, 5.56 x 45mm 69 grain OTM BT Requires a 1:11" barrel twist rate or faster: VOR-TX® 308 win 168 grain TSX

For additional ballistics information, refer to the product pages at [barnesbullets.com](#)

- VOR-TX® RIFLE
- VOR-TX® SAFARI
- PRECISION MATCH
- VOR-TX® LR
- BARNES AMMO

PISTOL & REVOLVER BALLISTICS

CARTRIDGE	ORDER NUMBER	WT. (GR)	BULLET STYLE	SIGHT HEIGHT (INCHES)	ZERO (YARDS)	VELOCITY (FPS)			ENERGY (FT-LB)			TRAJECTORY (INCHES)	
						MZL	25	50	MZL	25	50	25	50
380 Auto	21552	80	TAC-XP	0.9	25	990	948	911	174	160	147	0.0	-1.5
9mm Luger	32005	115	TAC-XP	0.9	25	1125	1079	1040	323	297	276	0.0	-1.0
9mm Luger + P †	21551	115	TAC-XP	0.9	25	1125	1079	1040	323	297	276	0.0	-1.0
357 Mag**	21550	125	TAC-XP	0.9	25	1200	1140	1089	400	361	330	0.0	-0.8
	21543	140	XPB	0.9	25	1265	1192	1130	498	442	397	0.0	-0.6
40 S&W	21554	140	TAC-XP	0.9	25	1120	1066	1018	394	353	323	0.0	-1.0
	32006	140	TAC-XP	0.9	25	1120	1066	1018	394	353	323	0.0	-1.0
10mm Auto	31180	155	XPB	0.9	25	1150	1105	1067	455	421	392	0.0	-0.9
41 Remington Magnum**	22037	180	XPB	0.9	25	1520	1403	1298	924	787	673	0.0	-0.2
44 Remington Magnum**	21545 †	225	XPB	0.9	25	1235	1172	1118	762	687	625	0.0	-0.7
45 Auto	32007	185	TAC-XP	0.9	25	1060	1023	992	462	430	404	0.0	-1.2
45 Auto + P †	21555	185	TAC-XP	0.9	25	1100	1058	1021	497	460	429	0.0	-1.0
45 Colt	21547	200	XPB	0.9	25	1025	983	947	467	429	398	0.0	-1.4
454 Casull**	22024	250	XPB	0.9	25	1700	1582	1472	1605	1390	1203	0.0	0.0

NOTE: Centerfire rifle ballistics were generated with a test barrel length of 24" except 5.56 x 45mm which used a 20" barrel and 300 AAC Blackout which used a 16" barrel. Use only in firearms designated for this cartridge and so recommended by the manufacturer. Specifications are nominal ballistics figures established in test barrels. Individual firearm may vary from test barrel results. 0.0 indicates yardage at which firearm was sighted in. Down range ballistics are calculated at standard conditions. All distances measured in yards. † Ammunition with "+p" on the case headstamp is loaded to higher pressure. Use only in firearms designated for this cartridge and so recommended by the firearm's manufacturer. †† Warning: full pressure load. Not for use in all 45-70 rifles. Injury or death may result from use in firearms not designated for modern SAAMI pressure for this cartridge (e.g. Trapdoor rifles). **Vented barrel ballistics Requires a 1:20" barrel twist rate or faster: VOR-TX® handgun 44 Remington mag 225 grain XPB

For additional ballistics information, refer to the product pages at [barnesbullets.com](#)

- VOR-TX® HANDGUN
- TAC-XPD





BARNES®



1-800-574-9200 / EMAIL@BARNESBULLETS.COM / 38 NORTH FRONTAGE ROAD / PO BOX 620, MONA, UT 84645