

**2021**

PRODUCT CATALOG





WELCOME TO

# BARNES

**HUNTING**

VOR-TX LR	14-15
VOR-TX AMMUNITION	16-19
TSX / TTSX / LRX	20
MUZZLELOADER	21
HANDGUN COMPONENTS	22
VARMINT COMPONENTS	22
ORIGINAL COMPONENTS	23
SOLIDS COMPONENTS	23

**PERSONAL DEFENSE**

TAC-XPD AMMUNITION	26-27
--------------------	-------

**MATCH, RANGE & TARGET**

PRECISION MATCH RIFLE AMMUNITION	30
MATCH BURNERS COMPONENTS	31
MPG (MULTI-PURPOSE GREEN) COMPONENTS	34
CR-10 BORE CLEANER	35
ALL-PURPOSE AMMUNITION	36-37



## BARNES BULLETS

# UTAH PROUD AND WORLD RENOWNED.

Utah isn't just home for us. It's America's epicenter of ballistic science and the most obsessed, dedicated and passionate group of ammunition engineers and craftsmen on planet earth. These people, our employees, are the heart and soul of our innovation. They're also avid shooters and hunters who use what they build – the most accurate, most effective bullets, components and ammunition the world has ever seen. Driven by first-hand knowledge of how each advancement delivers your downrange success. And though we will always utilize the most advanced technologies available anywhere, we will always bring it here, to Mona, Utah. And we're proudly here to stay.

# 2021 NEW PRODUCTS

In 2021, we proudly launch our new all-purpose line of lead-core ammunition, delivering legendary Barnes performance for a whole new range of scenarios. It's also a privilege to bring back some of the most popular products in our company's history. Because, when America's hunters and shooters ask, we listen, and answer with ultimate precision.

## NEW ALL-PURPOSE RIFLE LOADS

Bringing legendary Barnes precision and consistency to an all-new lineup of lead-core ammunition. Page 34.



## LINE EXTENSIONS

### VOR-TX LR / 6.5 PRC



6.5 PRC is one of the most popular calibers in competitive long-range shooting, now delivering Barnes terminal performance for hunting. Page 14.

### VOR-TX SAFARI BANDED SOLIDS / 375 H&H, 458 WIN, 458 LOTT



The most effective solids on dangerous game are back, with reliable, straight-tracking penetration. Page 19.

### VOR-TX HANDGUN / 9MM, 40 S&W



Reliable XPB bullet deep penetration and double-diameter expansion in two popular calibers. Page 19.

### PRECISION MATCH / 6.5 PRC



Engineered for precision at long distances, now available in 6.5 PRC. Page 40.

### NEW VOR-TX EXPANDER SHOTSHIELDS



### TSX / 35 CAL 180 GR FNFB



The most popular hunting bullet we make, TSX, now in 35-caliber flat nose. Optimized for 35 Remington. Page 20.

### LRX / 25 CAL 101 GR, 30 CAL 208 GR



Delivering long range precision in brand-new 25-and 30-caliber configurations. Page 20.

### MUZZLELOADER / MAGNUM MZ 250 GR



Outstanding accuracy and exceptional terminal performance for muzzleloaders. Page 21.

### BANDED SOLIDS / 375 CAL (300 GR/350 GR), 458 CAL (450 GR/500 GR)

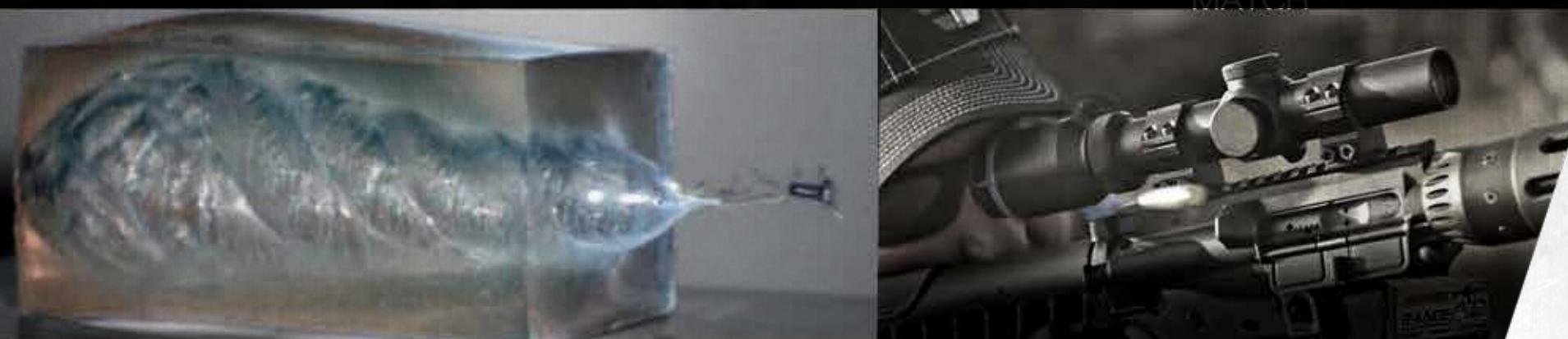


The deadliest, most dependable solid bullets you can load for dangerous game returns. Page 23.

**THE BARNES**

# X-BULLET

BARNES  
PRECISION  
MATCH



**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.

## 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.

In 2011, Barnes introduced the LRX Bullet, designed for consistent terminal results at close and long range, with a bullet shape and configuration optimized for each caliber. Introduced in 2017, Barnes VOR-TX LR premium hunting ammunition takes all the advanced engineering of LRX to our highest level of downrange effectiveness. It delivers terminal results up close to extreme distances with unmatched precision. It's the pinnacle of Barnes all-copper domination in its most accurate and lethal form yet.

**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. Why the difference in penetration? It's simple. A lead-core bullet 'mushrooms' into a solid mass, creating a lot of resistance. 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.



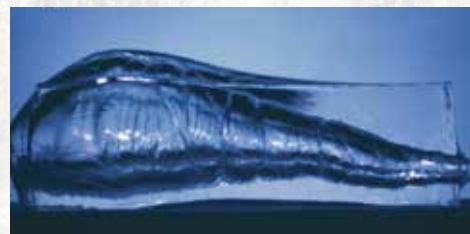
**BARNES VOR-TX LR GEL BLOCKS**



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



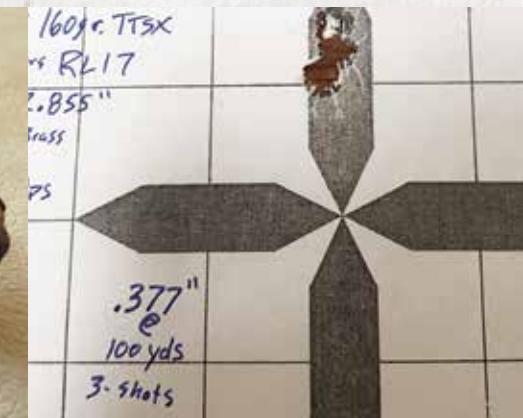
Barnes VOR-TX LR (Long Range)  
270 Winchester  
129gr. Barnes LRX BT  
Impact Distance: 500 yd.  
Penetration: 20+ in.



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.



B  
A  
R  
N  
E  
S



## 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

TSX / TTSX / LRX

MUZZLELOADER

HANDGUN COMPONENTS

PREDATORS & VARMINTS

ORIGINAL / SOLIDS



# 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.

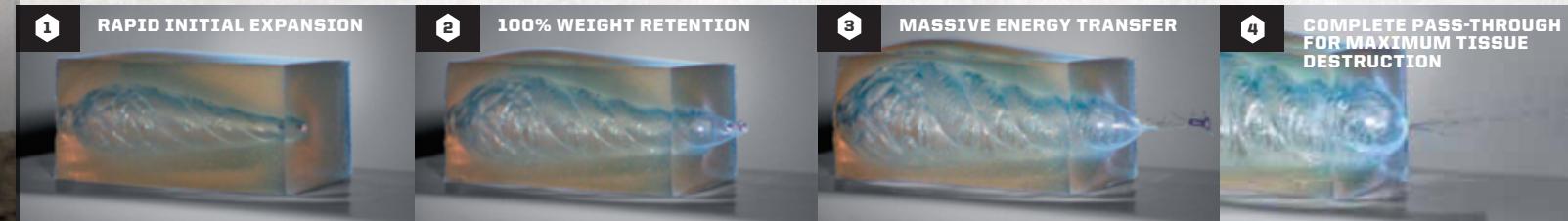
NOW AVAILABLE IN 6.5 PRC 127 GR LRX  
SEE FULL PRODUCT LISTING ON PAGE 41.



MORE VOR-TX LR INFO @ BARNESBULLETS.COM

**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

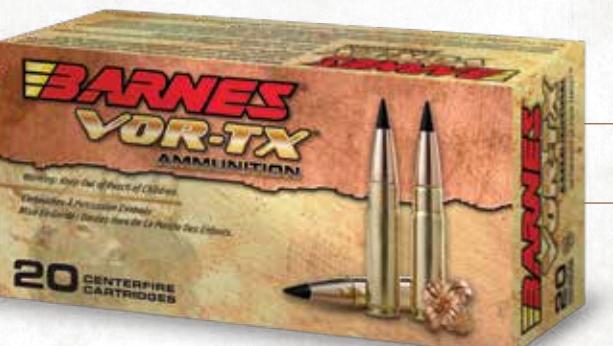
## HUNTING AMMUNITION

### 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 LISTING ON PAGE 41.



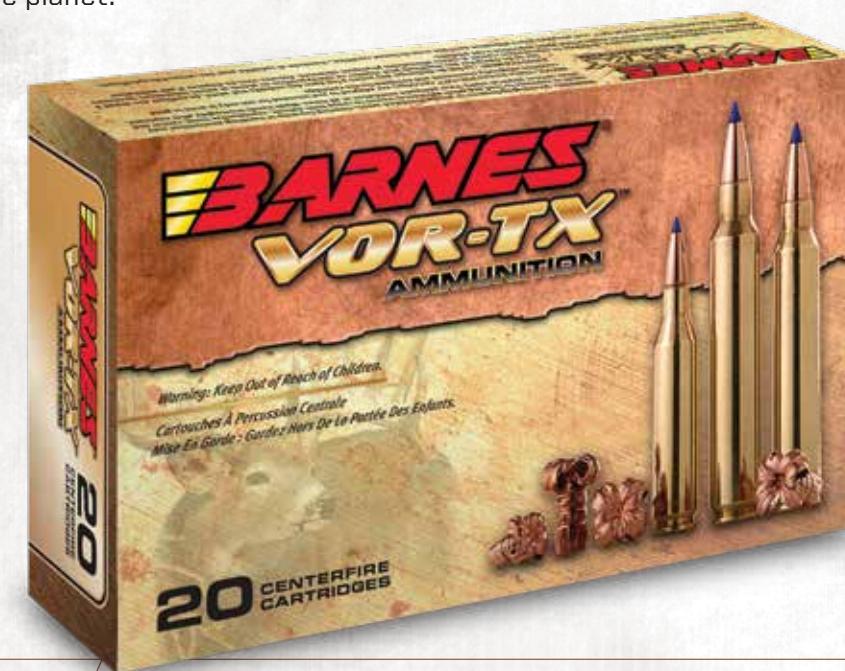
BARNES VOR-TX  
110 GR TAC-TX



9" BARREL

## 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 LISTING ON PAGE 41.



# VOR-TX

## 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 LISTING ON PAGE 42.



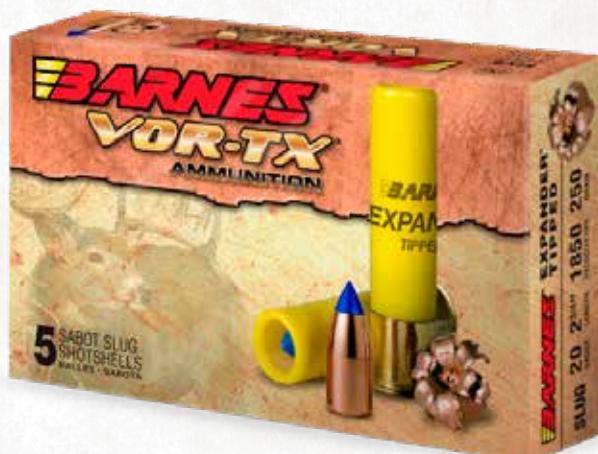
### NEW VOR-TX EXPANDER SHOTSHELL

New 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 2 3/4" and 3".

### NEW FOR 2020

**EXPANDER TIPPED, 12 GAUGE 437 GR 2 3/4", #20733**  
**EXPANDER TIPPED, 12 GAUGE 437 GR 3", #20737**  
**EXPANDER TIPPED, 20 GAUGE 250 GR 2 3/4", #20735**  
**EXPANDER TIPPED, 20 GAUGE 250 GR 3", #20739**

SEE FULL PRODUCT LISTING ON PAGE 43.

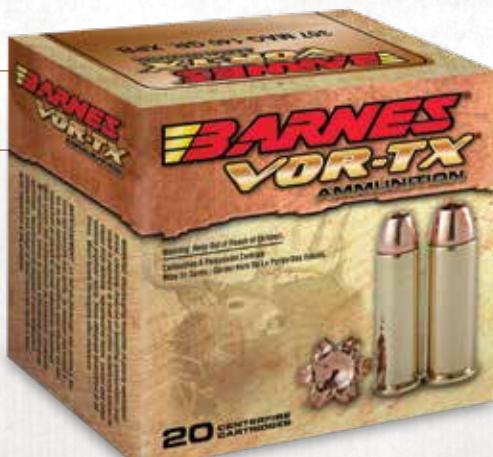


### VOR-TX HANDGUN

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

**NOW AVAILABLE IN:**  
**9MM, 40 S&W**

SEE FULL PRODUCT LISTING ON PAGE 43.



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

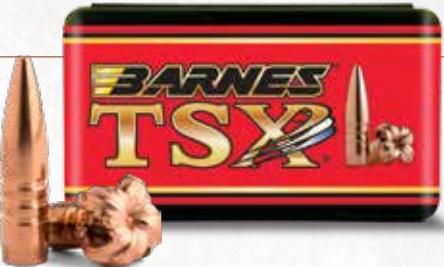
The TSX, TTSX and LRX bullets have proven to be the most accurate and lethal hunting bullets available – a fact countless shooters have confirmed time and time again.

### TSX

NOW AVAILABLE IN: 35 CAL 180 GR FNFB (35 REM)

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 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 LISTING ON PAGES 44-45.

### LRX

NOW AVAILABLE IN: 25 CAL 101 GR & 30 CAL 208 GR

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 LISTING ON PAGE 50.

## 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 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 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.

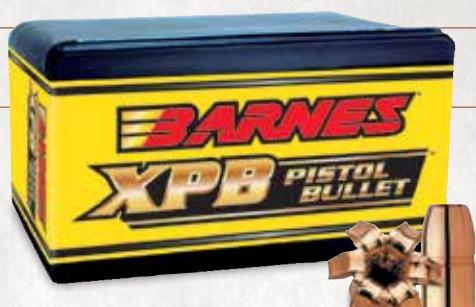
SEE FULL PRODUCT LISTING ON PAGE 48.



### XPB

Featuring Barnes' patented X Bullet technology, all-copper XPB bullets offer dramatically increased performance over conventional jacketed lead-core bullets. These lead-free bullets provide superior expansion and weight retention. Energy transfer is unsurpassed for quick, clean kills, making them ideal for hunting.

**SEE FULL PRODUCT LISTING ON PAGE 47.**



### BUSTER

Heavy-for-caliber handgun and lever-rifle bullets for hunting bear, wild boar, moose, bison, buffalo and other large, dangerous game. Thick copper jacket and a heavy lead core, resulting in bone-crushing power with pass-through penetration.

Barnes Busters track straight without deflection and remain intact—jackets won't separate from the core. Ideal for those who carry handguns for protection against bears in Alaska and other wilderness areas.

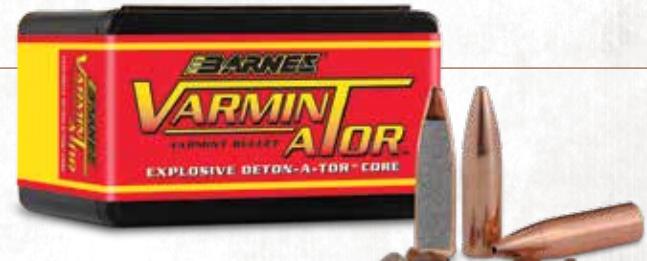
**SEE FULL PRODUCT LISTING ON PAGE 48.**



### VARMIN-A-TOR

Accurate, explosive lead DETON-A-TOR core. This lead-core classic hollow point design utilizes a scored nose cavity. A thin, tapered copper jacket fragments violently on impact vaporizing any predator or varmint in its path.

**SEE FULL PRODUCT LISTING ON PAGE 44.**



LEAD CORE

### VARMINT GRENADE

Hollow-cavity, flat-base bullet features a copper-tin powdered metal core surrounded by a gilding metal jacket. Instant fragmentation, virtually vaporizing ground squirrels and prairie dogs, even at long range. Expends energy quickly, seldom exiting large predators, leaving valuable pelts virtually undamaged.

**SEE FULL PRODUCT LISTING ON PAGE 44.**



LEAD FREE



### PRIZED BY HUNTERS SINCE 1932.

Fred Barnes turned innovation and ingenuity into the bullet that launched the premium bullet revolution. The Barnes Original, a long-time favorite of professional hunters who demand impact and reliable performance.

### BARNES ORIGINAL

Featuring a thick copper jacket pressure-formed around a pure lead core, these time-tested bullets are offered for selected cartridges like the 348 Win, 38-55, 375 Win and 45-70.

Barnes Original expands to more than twice their original diameter and retain 70-90% of their original weight.

Many big game hunters continue to rely on this time-proven bullet.

**SEE FULL PRODUCT LISTING ON PAGE 47.**



- Pure copper tubing jacket
- Pure lead core
- Controlled expansion
- Deep penetration
- Proven performance

### VIRTUALLY INDESTRUCTABLE ON THE TOUGHEST, MOST DANGEROUS GAME.

Tracks straight without deforming or deflecting on heavy bone. The deadliest, most dependable solids you can buy.

### BARNES BANDED SOLIDS

Machined from homogeneous copper/zinc alloy, these indestructible bullets won't disintegrate or deflect on heavy bone. Multiple bands, or rings, cut into the shank relieve pressure and virtually eliminate fouling. Specifically designed to track straighter through dense muscle and bone. Weight-matched with TSX bullets of the same caliber, Banded Solids can be interchanged with TSX bullets without varying point of impact. Round nose for flawless feeding in bolt-action rifles. Flat nose available for double rifles.



- Free-machining brass
- Deep, dependable penetration
- Tracks straight, won't deflect on bone
- True performance with no deformation

**AVAILABLE AGAIN IN:  
375 CAL AND 458 CAL**

**SEE FULL PRODUCT LISTING ON PAGE 47.**



**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 100-percent copper solutions 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

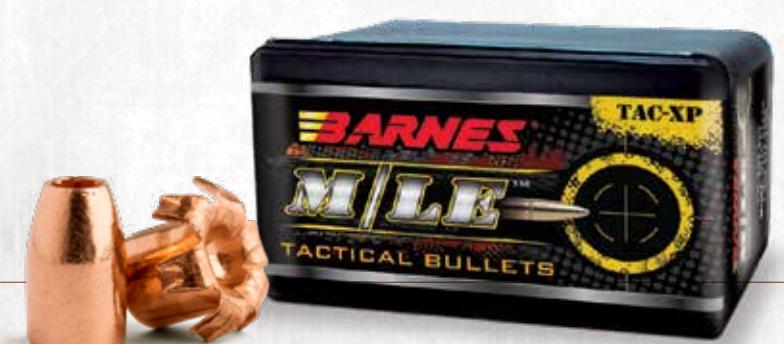
TAC-XP HANDGUN COMPONENTS





# TAC-XP

## PERSONAL DEFENSE



### BARNES TAC-XP PISTOL

**PERSONAL DEFENSE COMPONENTS:** 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 LISTING ON PAGE 48.

**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-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 LISTING ON PAGE 48.



## 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

RANGE AR RIFLE  
AMMUNITION

MPG [MULTI-PURPOSE GREEN]  
COMPONENTS

MATCH BURNERS  
COMPONENTS





## 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 2021 6.5 PRC 145 GR, #30819

SEE FULL PRODUCT LISTING ON PAGE 49.



MORE PRECISION MATCH INFO @ BARNESBULLETS.COM

## DESIGNED FOR THE COMPETITIVE SHOOTER.

These premium bullets deliver accurate, aggressive results.

### MATCH BURNERS

As Precision Rifle, 3-Gun and High Power competition heats up, Barnes responds with competitively priced lead core match-grade bullets. Competitive shooters looking for that "better mouse trap" owe it to themselves to give Barnes Match Burners a shot. High B.C., Match grade, OTM BT projectile for competitive and target shooting at extreme distances.

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 (Bulk 500-ct), #30102

SEE FULL PRODUCT LISTING ON PAGE 50.



BULK  
PACKS



MORE MATCH BURNER INFO @ BARNESBULLETS.COM



# 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 TOF 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.

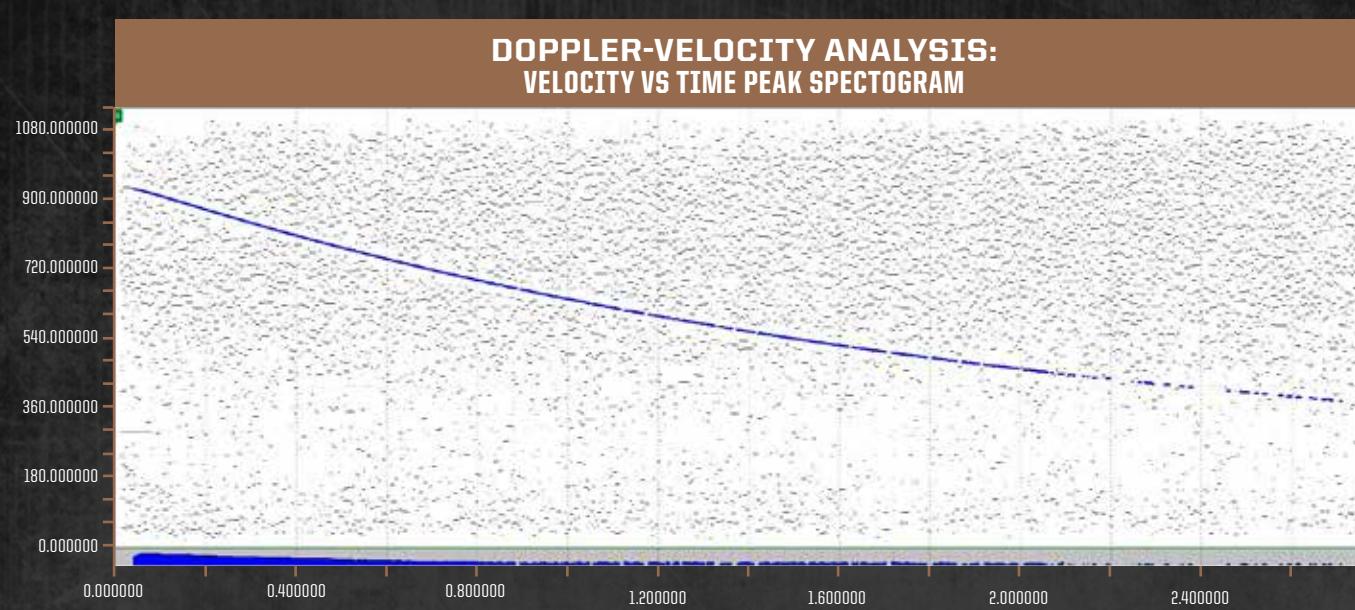
Doppler radar sends electromagnetic waves at a known frequency toward the bullet in flight. These waves reflect off the bullet, returning to the radar head where a new frequency is recorded. The change in frequency is known as the Doppler effect. From this change, the bullet's velocity and TOF are measured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

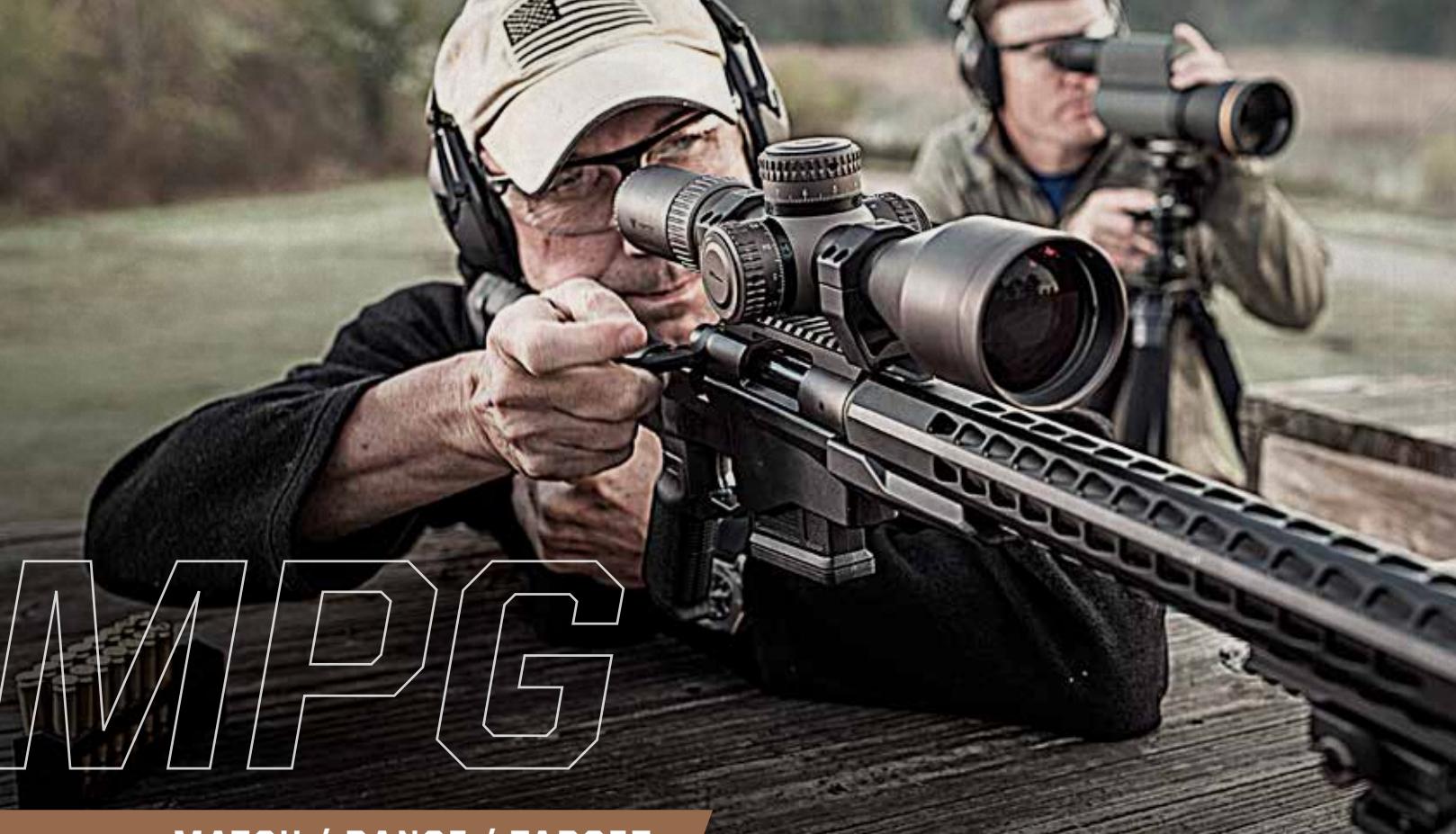
anywhere from just in front of the muzzle to 1600+ yards downrange. Instead of measuring a single BC value, this system allows us to measure multiple drag coefficient (CD) values for the full velocity range of the flight.

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.





# MPG

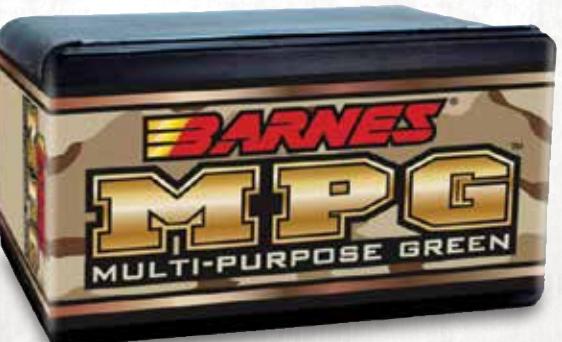
MATCH / RANGE / TARGET

## PERFECTLY SUITED FOR MULTIPLE APPLICATIONS.

### MPG (MULTI-PURPOSE GREEN) COMPONENTS

Barnes' Multi-Purpose Green bullets are exceptionally accurate and ideal for shooting steel targets, competition, plinking, varmint hunting and defense. Unlike frangible bullets lacking a protective jacket, MPG bullets remain intact under the rigors of heavy training with enhanced handling, feeding and firing in high-capacity magazines. This eliminates the primary cause of jammed actions often experienced when firing frangible ammunition.

SEE FULL PRODUCT LISTING ON PAGE 51.



MORE MPG INFO @ [BARNESBULLETS.COM](http://BARNESBULLETS.COM)

MPG MATCH / RANGE / TARGET



### HOW CLEAN IS YOUR BARREL, REALLY?

When cleaning a rifle, angle the muzzle downward and use a bore guide. This ensures solvents, crud, and grime won't drip or run through the action, gumming up the trigger and possibly damaging the bedding. One-piece, coated cleaning rods are recommended.

Mount the firearm in a vise. Use a rag for padding and a container under the muzzle to catch the solvents and patches.

Select the proper cleaning rod based on the caliber.

- Use the proper jag and a tight-fitting patch soaked with Barnes CR-10 Bore Cleaner to remove the powder fouling.
  - › Use 2-4 patches and push each patch completely through the bore with one long stroke.
- Install the proper size cleaning brush, soak with CR-10 and stroke the bore 10-20 times.
  - › Push brush completely through the bore prior to reversing direction.
  - › Add CR-10 to brush while at muzzle end of barrel half way through the process.
  - › Clean the brush after the process is complete with a blast of non-chlorinated brake cleaner or equivalent.
  - › Use proper size jag and Barnes CR-10 soaked patches until no discoloration is left on the patches.
- Examine muzzle and throat area for any signs of copper fouling.
  - › If copper fouling is still visible, repeat above process.



NOTE: The first two patches through the barrel after brushing should be pushed completely through the barrel in one long stroke. The patches will be blue and dirty from the loose copper residue from brushing. The remaining patches should be short stroked through the barrel a few inches at a time until there is minimal blue coloration on the patch.

- Push 2-4 patches soaked with brake cleaner through the barrel with one long stroke for each patch.
- Clean inside chamber with a dry patch.
- Lube the bolt lugs with bolt grease and clean out the lug recesses. Also, apply a small amount of grease to the bolt handle & cocking piece camming surfaces on the bolt.
- Coat the bore with a light coat of oil then run one dry patch through the bore.





**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, on game and for personal defense. With a host of new chamberings coming soon.



## 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 .223/5.56MM AND 300 BLACKOUT. ADDITIONAL RIFLE AND HANDGUN CALIBERS COMING SOON.

SEE FULL PRODUCT LISTING ON PAGE 48.



MORE BARNES AMMUNITION INFO @ BARNESBULLETS.COM



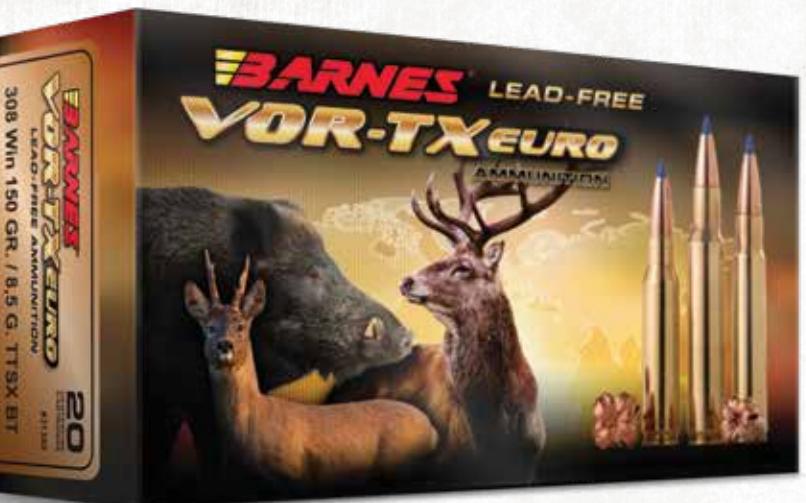
B

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



# 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.

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

The VOR-TX EURO line is available in the following cartridges and bullet weights:

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 716876	BOXES PER CASE	UPC CASE 716876
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

## VOR-TX LR CENTERFIRE RIFLE CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 716876	BOXES PER CASE	UPC CASE 716876
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 CENTERFIRE RIFLE CARTRIDGES

ORDER NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 716876	BOXES PER CASE	UPC CASE 716876
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
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

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.









**MATCH BURNER BULLETS**

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	BULLETS PER BOX	UPC BOX 716876	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	0.243"	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 716876	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 716876	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


**ACCESSORIES**
**BORE CLEANER**

ORDER NUMBER	DESCRIPTION	UPC BOX 716876	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 716876	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 & T-EZ Aligner Tool	05007 9	10
30708	54 CAL MZ Aligner Tool	05400 8	10

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 &amp; 30102 requires 1:8" twist or faster, 30311 requires 1:8.5" twist or faster, 30195, 30164, 30206 &amp; 31120 requires 1:9" twist or faster, 30374, 30377 &amp; 30162 requires 1:10" twist or faster, 30318 requires 1:11" twist or faster.





38 NORTH FRONTAGE ROAD / PO BOX 620, MONA, UT 84645

1-800-574-9200 / EMAIL@BARNESBULLETS.COM





2021

**VOR-TX LR**  
LONG RANGE AMMUNITION  
**20 CENTERFIRE CARTRIDGES**

7MM REM ULTRA MAG	30-06 SPRG	300 WIN MAG	300 REM ULTRA MAG	338 REM ULTRA MAG	375 REM ULTRA MAG
LTX BT 145 GR CAT. # 20365	LTX BT 175 GR CAT. # 30740	LTX BT 100 GR CAT. # 20203	LTX BT 190 GR CAT. # 20011	LTX BT 190 GR CAT. # 29601	LTX BT 270 GR CAT. # 25607
6.5 PRC	270 WIN	7MM REM MAG	6.5 CREEDMOOR	6.5 CREEDMOOR	6.5 CREEDMOOR
LTX BT 127 GR CAT. # 30830	LTX BT 129 GR CAT. # 31198	LTX BT 139 GR CAT. # 28981	LTX BT 95 GR CAT. # 30232	LTX BT 127 GR CAT. # 28986	LTX BT 127 GR CAT. # 28986

**VOR-TX SHOTSHELL**

12 GAUGE	12 GAUGE
TYPE EXPANDER TIPPED WGT. .437 GR SHELL LENGTH 2 1/4 CAT. # 20733	TYPE EXPANDER TIPPED WGT. .437 GR SHELL LENGTH 3 CAT. # 20737
TYPE EXPANDER TIPPED WGT. .250 GR SHELL LENGTH 3 CAT. # 20735	TYPE EXPANDER TIPPED WGT. .250 GR SHELL LENGTH 3 CAT. # 20739

**PRECISION MATCH**

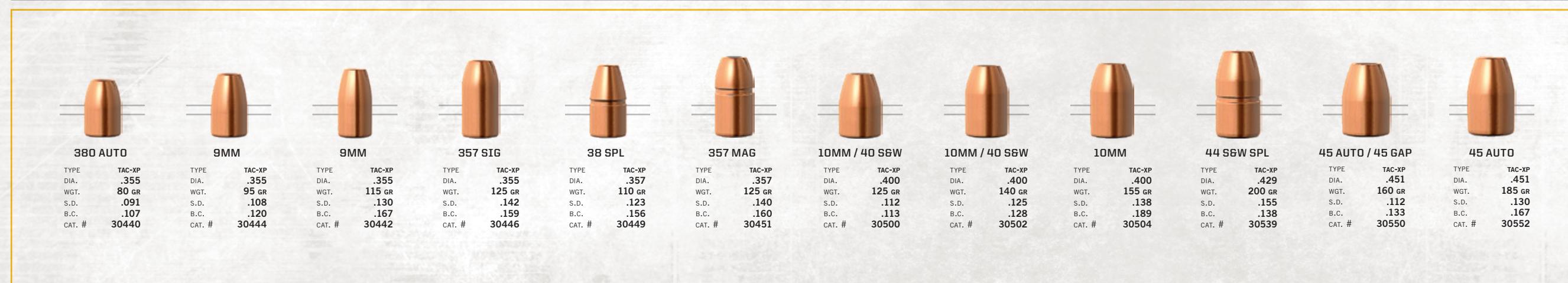
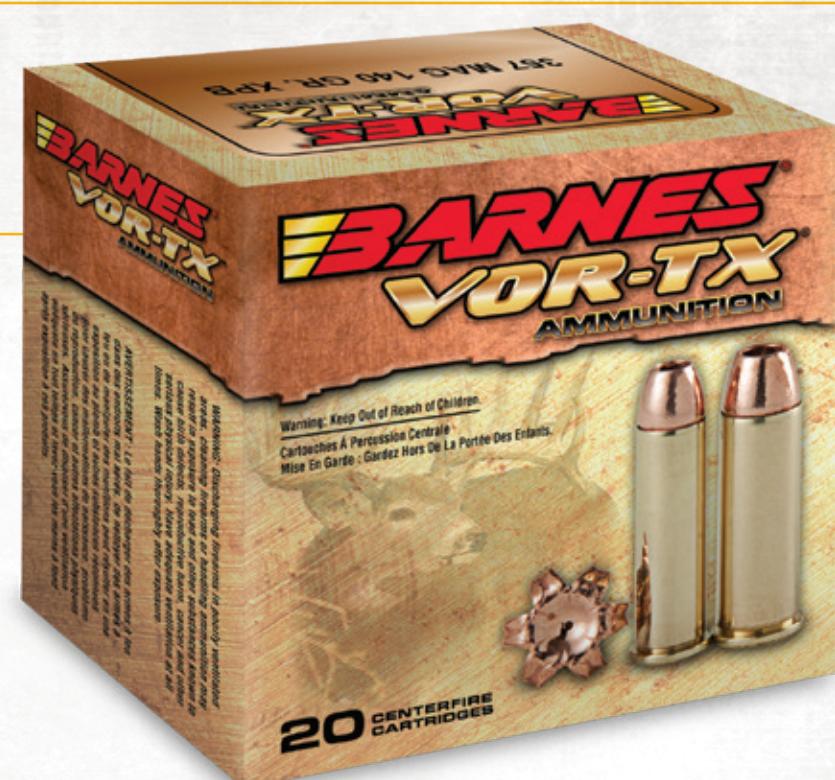
5.56 X 45MM	5.56 X 45MM				
TYPE OTM BT 69 GR CAT. # 30845*	TYPE OTM BT 85 GR CAT. # 30848*				
NEW 6.5 PRC	6.5 PRC				
TYPE OTM BT 120 GR CAT. # 30831	TYPE OTM BT 145 GR CAT. # 30819				
6.5 CREEDMOOR	260 REM	300 AAC BLACKOUT	300 WIN MAG	308 WIN	338 LAPUA MAG
TYPE OTM BT 140 GR CAT. # 30166	TYPE OTM BT 140 GR CAT. # 30742	TYPE OTM BT 125 GR CAT. # 30737	TYPE OTM BT 175 GR CAT. # 30740	TYPE OTM BT 175 GR CAT. # 30818	TYPE OTM BT 300 GR CAT. # 30728

**VOR-TX RIFLE**

22-250 REM	223 REM	5.56 X 45MM	5.56 X 45MM
TYPE TTSX BT 145 GR CAT. # 22008	TYPE TTSX BT 145 GR CAT. # 21520	TYPE TTSX BT 95 GR CAT. # 31190*	TYPE TTSX BT 95 GR CAT. # 31191*
243 WIN	25 - 06 REM	260 REM	6.5 CREEDMOOR
TYPE TTSX BT 80 GR CAT. # 21522	TYPE TTSX BT 95 GR CAT. # 21557	TYPE TTSX BT 100 GR CAT. # 22010	TYPE TTSX BT 120 GR CAT. # 30815
270 WIN	270 WSM	7 MM - 08 REM	7MM REM MAG
TYPE TTSX BT 130 GR CAT. # 21524	TYPE TTSX BT 140 GR CAT. # 21559	TYPE TTSX BT 120 GR CAT. # 21561	TYPE TTSX BT 140 GR CAT. # 21563
308 WIN	308 WIN	308 WIN	7MM REM MAG
TYPE TTSX BT 130 GR CAT. # 30810	TYPE TTSX BT 150 GR CAT. # 21540	TYPE TTSX BT 150 GR CAT. # 21541*	TYPE TTSX BT 150 GR CAT. # 21555
300 WSM	300 WIN MAG	300 WIN MAG	300 WIN MAG
TYPE TTSX BT 165 GR CAT. # 21536	TYPE TTSX BT 150 GR CAT. # 21569	TYPE TTSX BT 150 GR CAT. # 21557	TYPE TTSX BT 160 GR CAT. # 21538
338 WIN MAG	338 WIN MAG	338 LAPUA MAG	35 WHELEN
TYPE TTSX BT 210 GR CAT. # 21575	TYPE TTSX BT 225 GR CAT. # 21542	TYPE TTSX BT 280 GR CAT. # 30727*	TYPE TTSX BT 180 GR CAT. # 21581
NEW 450 BUSHMASTER	NEW 450 BUSHMASTER	450 TGT GOVT	35 WHELEN
TYPE TTSX BT 190 GR CAT. # 30729	TYPE TTSX BT 200 GR CAT. # 30838	TYPE TTSX BT 250 GR CAT. # 30838	TYPE TTSX BT 180 GR CAT. # 21579

**TAC-XPD**

357 MAGNUM	380 AUTO
TYPE TAC-XP 125 GR CAT. # 21550	TYPE TAC-XP 80 GR CAT. # 21552
9MM LUGER +P	40 S&W
TYPE TAC-XP 115 GR CAT. # 21551	TYPE TAC-XP 140 GR CAT. # 21554

**TAC-XP****TAC-TX**

NEW 6.5 MM	300 AAC BLK WHISPER	300 AAC BLK WHISPER
TYPE TAC-TX BT .264	TYPE TAC-TX BT .308	TYPE TAC-TX BT .308

These products require the following recommended twist rate, or faster:  
AMMO: #31190, 5.56 x 45MM 62 gr; VOR-TX - 1.8"; #31191, 5.56 x 45MM 70 gr; VOR-TX - 1.8"; #21541, 5.56 x 45MM 69 gr; Precision Match - 1.9"; #30849, 5.56 x 45MM 65 gr; Precision Match - 1.8"; #30727, .338 Lapua Mag 230 gr; VOR-TX Handgun - 1.2"; #30439 - The 30 caliber 165 gr. TSX has our Match Grade ogive which lengthens the nose profile. It is best suited for cartridges such as the 308 Win, 30-06 Sprg and 300 Weatherby Mag.  
\*\* The .30 caliber 165 gr. TSX has our Match Grade ogive which lengthens the nose profile. It is best suited for cartridges such as the 308 Win, 30-06 Sprg and 300 Weatherby Mag.  
Some bullet images may vary slightly from the actual produced bullet. Visit barnesbullets.com for updated bullet specifications.

**BARNES****AMMUNITION**

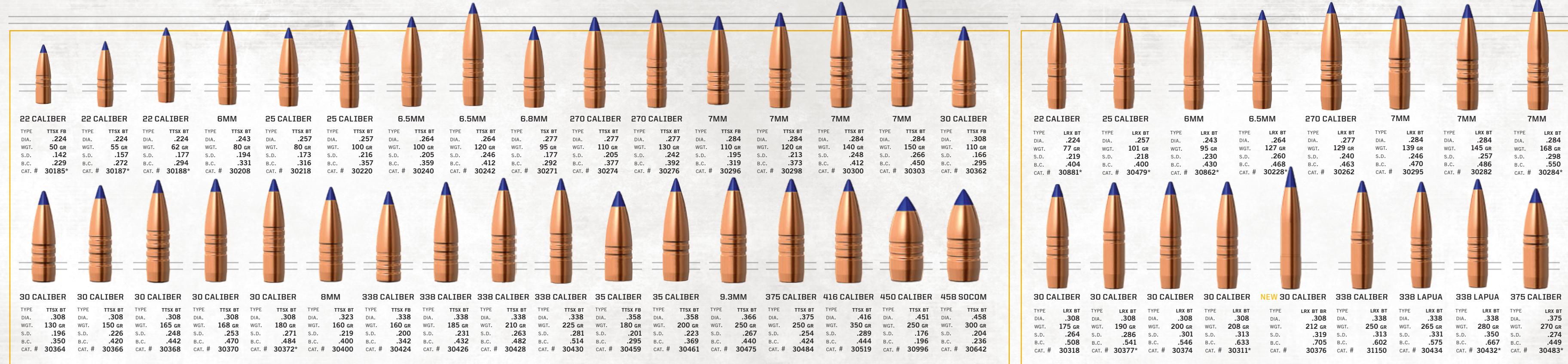
BARNESBULLETS.COM • 1-800-574-9200



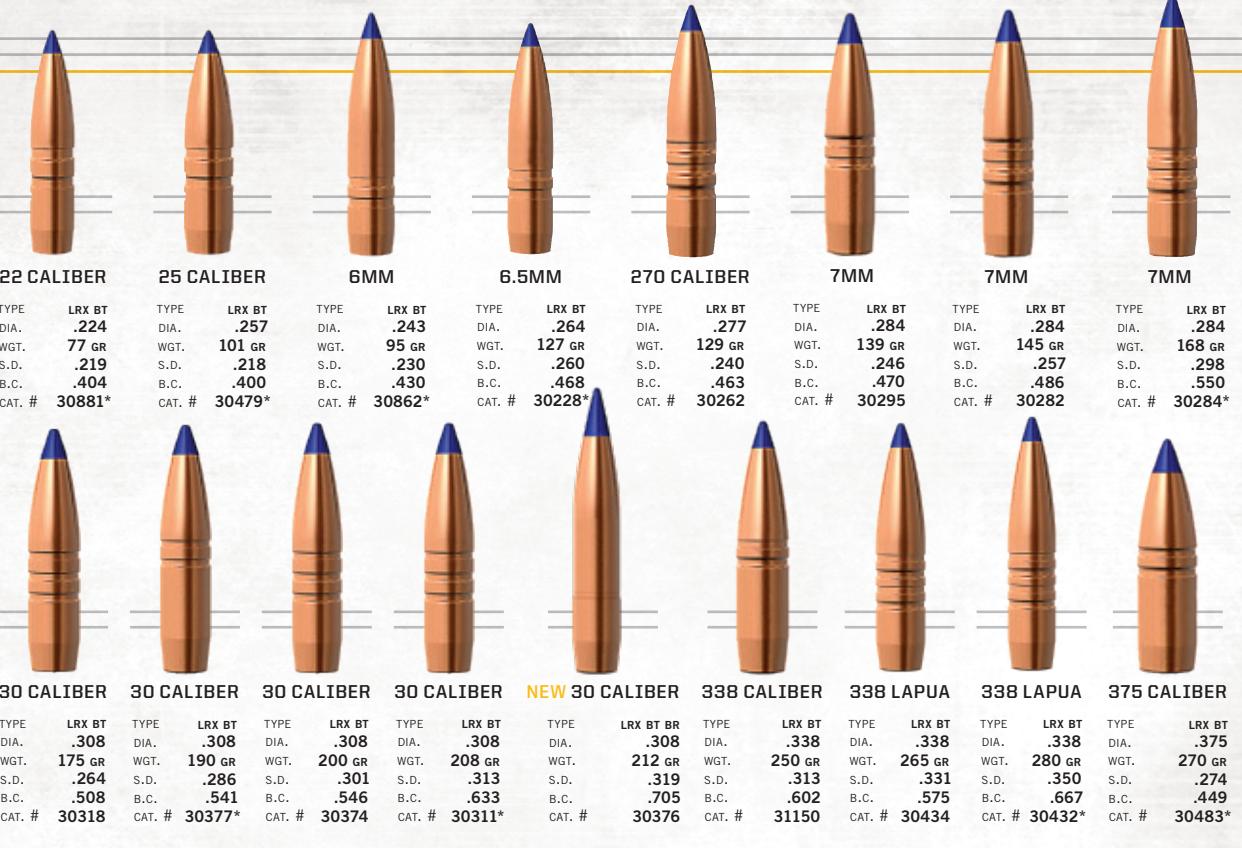
## TSX



## TIPPED TSX



## LRX LONG-RANGE X BULLET



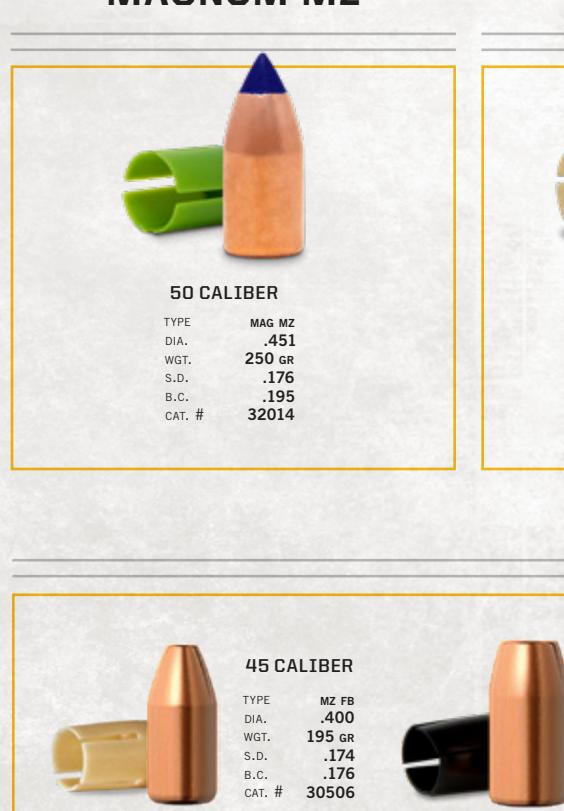
## XPB PISTOL BULLET



## BARNES BUSTER



## MAGNUM MZ



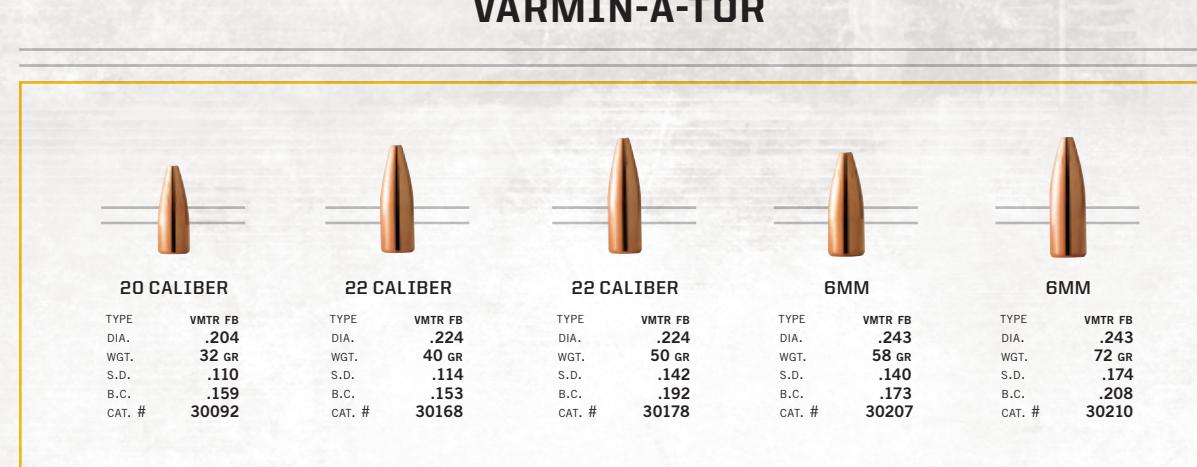
## SPIT-FIRE TMZ



## SPIT-FIRE T-EZ



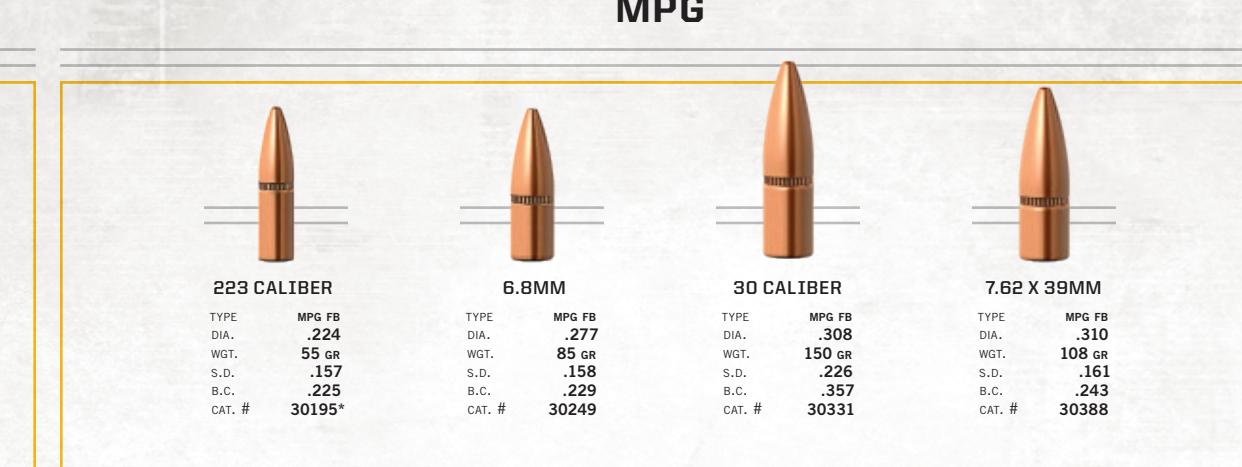
## VARMIN-A-TOR



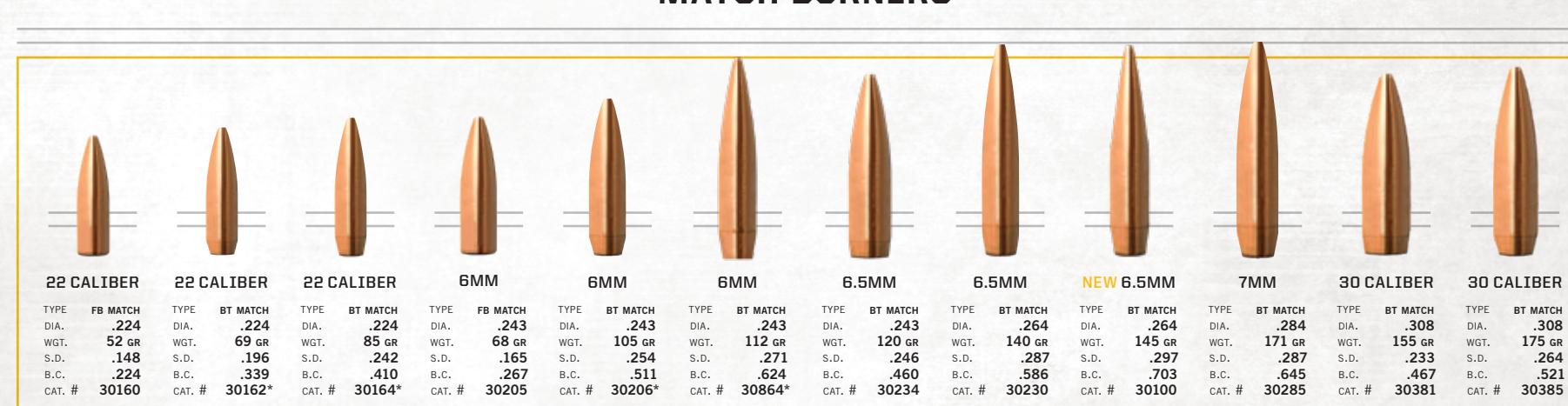
## VARMINT GRENADE



## MPG



## MATCH BURNERS



## BARNES ORIGINAL



BND SLD FN  
BND SLD RN  
BND ST BT  
BST F FN FB  
FNSP FB  
LWX BT BR  
MPG FB  
MZ FB  
OTM BT  
OTM FB  
SPTT BT  
T2 FB  
VGT FB  
VMTR FB  
XPISTOL BULLET

\* These products require the following recommended twist rate, or faster.  
AMMO: #31190: .556 x 45MM 62 gr. VOR-TX - 1.9"; #2154: .308 WIN 150 gr. VOR-TX - 1.1"; #00846: 5.56 x 45MM 69 gr. Precision Match - 1.9";  
30848: 5.56 x 45MM 65 gr. Precision Match - 1.8"; #3073: .308 Lapua Mag 280 gr. VOR-TX - 1.8"; #2154: .44 Remington Mag 225 gr. VOR-TX Hinged - 1.2"  
LWX FB: #30104: .300 AAC Blackout 115 gr. VOR-TX - 1.8"; #30105: .300 AAC Blackout 115 gr. VOR-TX - 1.8"; #30106: .300 AAC Blackout 115 gr. VOR-TX - 1.8";  
22 cal 50 gr. TTSX - 1.2"; #30107: .22 cal 55 gr. TTSX - 1.9"; #30108: .22 cal 62 gr. TTSX - 1.8"; #30109: .22 cal 70 gr. TTSX - 1.8"; #30105: .22 cal 53 gr.  
MPG: 1.9"; #30108 & #30109: .23 cal 50 gr. VGF FB - 1.10"; #30206: .30 cal 105 gr. MATCH BURNER - 1.9"; #30210 & #30217: .6mm 62 gr. or VSF FB - 1.10"; #30372: .30  
cal 105 gr. TTSX - 1.11"; #30374: .30 cal 200 gr. LTX - 1.11"; #30403: .338 Lapua Mag 285 gr. TAC-X - 1.10"; #30432: .338 Lapua Mag 285 gr. TAC-X - 1.10";  
#30434: .30 cal 105 gr. TTSX - 1.11"; #30349: The 30 caliber 165 gr. TSX has our Match Grade groove which lengthens the nose profile. It is designed for cartridges such as the .308 Win, .30-06 Sprg and .300 Weatherby Mag.  
\*\* #03549 - The .30 caliber 165 gr. TSX has our Match Grade groove which lengthens the nose profile. It is designed for cartridges such as the .308 Win, .30-06 Sprg and .300 Weatherby Mag.

Some bullet images may vary slightly from the actual produced bullet. Visit barnesbullets.com for updated bullet specifications.

**BARNES**  
**AMMUNITION**

BARNESBULLETS.COM • 1-800-574-9200

10