



PRODUCT  
CATALOG



WELCOME TO

# BARNES



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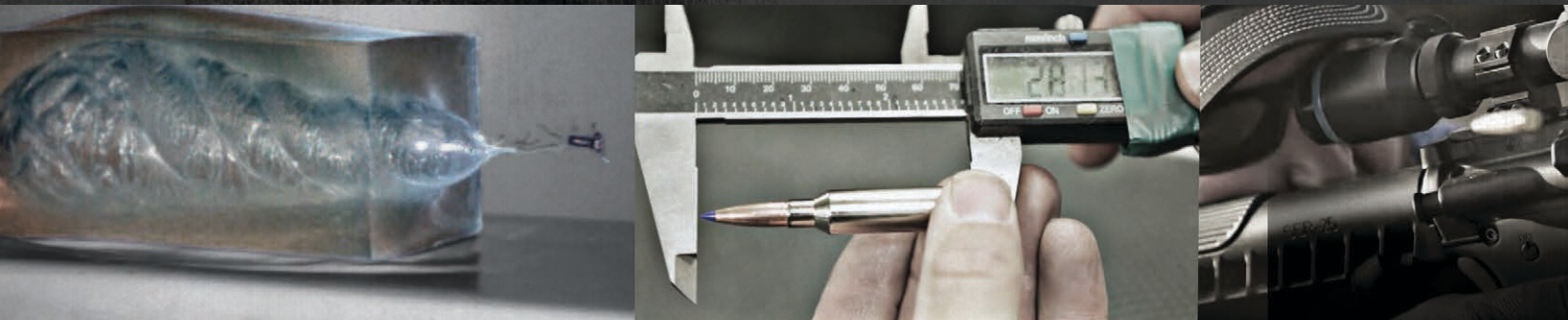
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# ***THE BARNES X BULLET.***



**1989**  
X BULLET



**1997**  
XLC



**2003**  
TSX



**2008**  
TTSX



**2011**  
LRX



## 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 the 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.

The next version, the XLC 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.

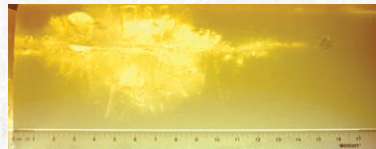
The Barnes TTSX added a blue polymer tip to the proven X Bullet equation. This tip raised the ballistic coefficient for improved flight characteristics and acted as a wedge to promote full expansion and energy transfer.

In 2011, Barnes introduced the LRX, designed for consistent terminal results at close and long range, with bullet shape and configuration optimized for each caliber. Introduced in 2017, Barnes VOR-TX LR takes all the advanced engineering of LRX to our highest level of downrange effectiveness. It delivers identical 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.**



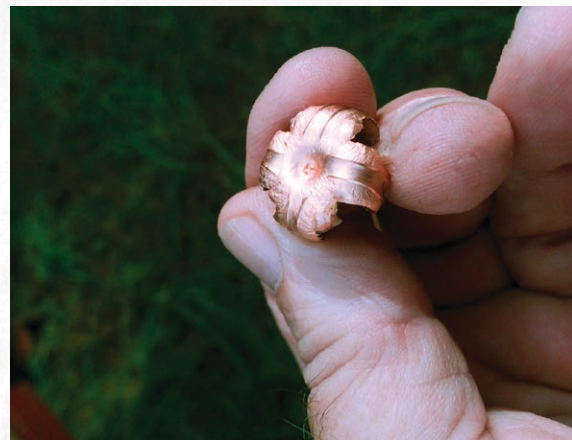
Barnes all-copper TSX



Leading competitor's jacketed lead-core hunting bullet

**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.

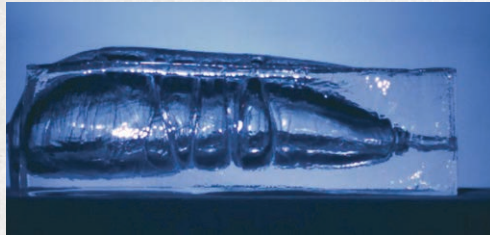


35 Whelen 180 Grain Tipped TSX VOR-TX, recovered from a hog

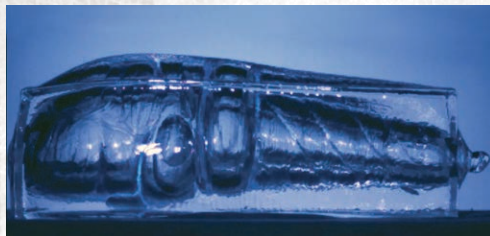




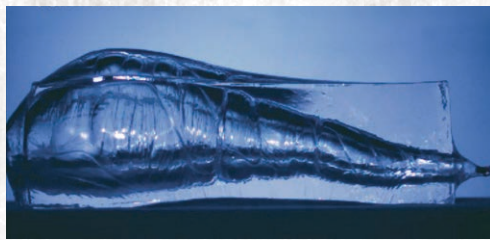
### BARNES VOR-TX LR GEL BLOCKS



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



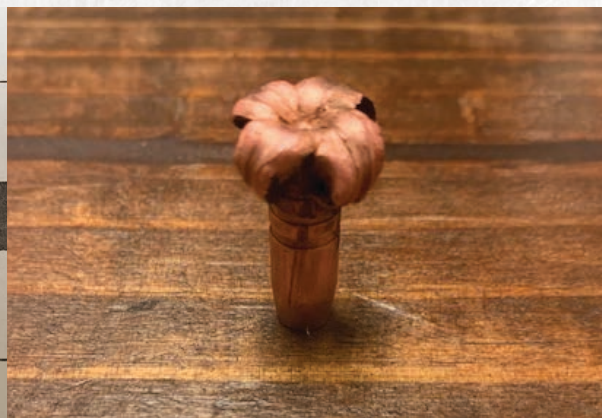
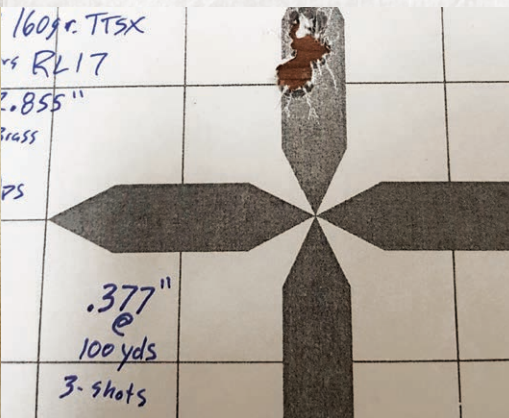
Barnes VOR-TX LR (Long Range)  
270 Winchester  
129gr. Barnes LRX BT  
Impact Distance: 500 yd.  
Penetration: 20+ in.



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.





# HUNTING





## **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**



HUNTING AMMUNITION

# VOR-TX LR

## 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 LISTING ON PAGE 32.

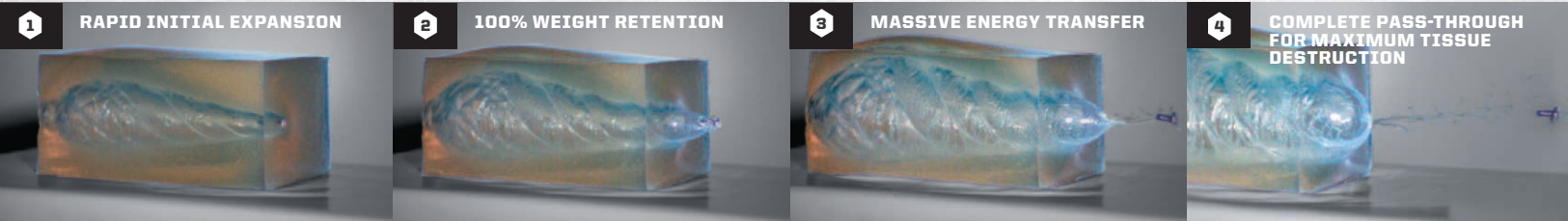


MORE VOR-TX LR INFO @ [BARNESBULLETS.COM](http://BARNESBULLETS.COM)



**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 initiates 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
- Boat tail 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.





HUNTING AMMUNITION

# VOR-TX



## VOR-TX 300 AAC BLACKOUT

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

### 300 AAC BLACKOUT, 300 YARDS INTO 10% BARE BALLISTIC GELATIN:

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 32.





# 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.

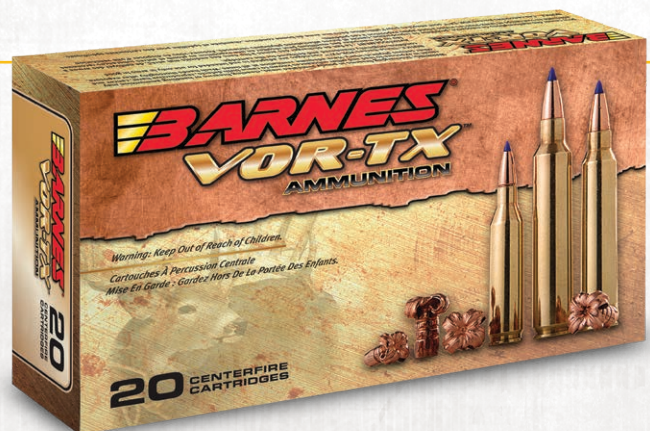
## VOR-TX RIFLE

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.

**6.5 GRENDEL, 115 GR, #30829**

**450 BUSHMASTER, 250 GR, #30838**

SEE FULL PRODUCT LISTING ON PAGE 32.





HUNTING AMMUNITION

# VOR-TX

## 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 produced extreme expansion and penetration, even at extended range. With higher velocity, flatter trajectory and unmatched accuracy. Available in both 12- and 20-gauge, in 2<sup>3</sup>/<sub>4</sub>" and 3".

### NEW FOR 2020

- EXPANDER TIPPED, 12 GAUGE 437 GR 2<sup>3</sup>/<sub>4</sub>", #20733
- EXPANDER TIPPED, 12 GAUGE 437 GR 3", #20737
- EXPANDER TIPPED, 20 GAUGE 250 GR 2<sup>3</sup>/<sub>4</sub>", #20735
- EXPANDER TIPPED, 20 GAUGE 250 GR 3", #20739





VOR-TX Safari 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.

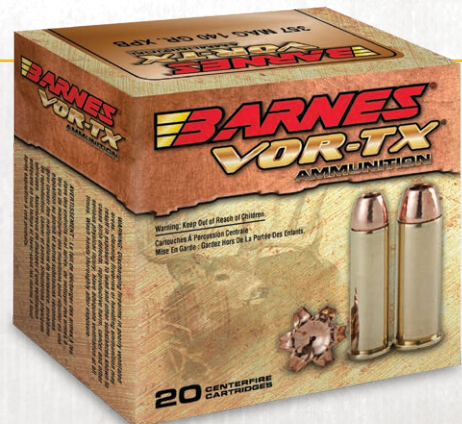
SEE FULL PRODUCT LISTING ON PAGE 33.



**VOR-TX HANDGUN**

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

SEE FULL PRODUCT LISTING ON PAGE 34.





# 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 LISTING ON PAGE 36.



## TIPPED TSX

All the features of the TSX Bullet, plus:

- Polymer tip that boosts B.C. and initiates 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 PAGE 35.



## LRX

**NEW FOR 2020 LRX BOAT TAIL BORE RIDER, 212 GR, #30376**

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 34.







# OUTPERFORMS ALL OTHER MUZZLELOADER BULLETS SHOULDER TO SHOULDER.

The Muzzleloader version of the X Bullet is 100% copper with a large, hollow cavity for expansion without any fragmentation. Shoot with greater confidence and more one-shot kills.

## 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 39.



## SPIT-FIRE MZ

A streamlined ogive, boattail base and tack-driving accuracy for difficult long shots. Deadly at high and low velocities. Six razor-sharp copper petals create massive shock, deep penetration and double-diameter expansion.

SEE FULL PRODUCT LISTING ON PAGE 39.



## 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 39.



## 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 39.



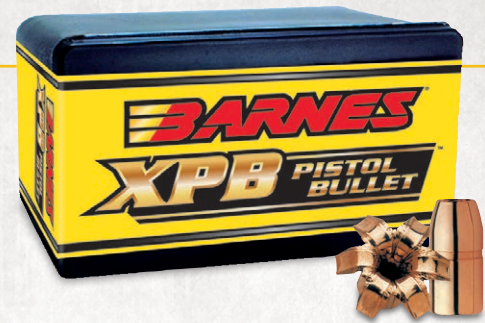


## HANDGUN & LEVER RIFLE HUNTING COMPONENTS

### 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 38.



### 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 39.



## PREDATORS & VARMINTS HUNTING COMPONENTS

### 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 35.



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. Expend energy quickly, seldom exiting large predators, leaving valuable pelts virtually undamaged.

SEE FULL PRODUCT LISTING ON PAGE 35.



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 38.



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



## VIRTUALLY INDESTRUCTIBLE 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.

SEE FULL PRODUCT LISTING ON PAGE 38.



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



# PERSONAL DEFENSE



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

The most technically advanced personal defense products 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. With products 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 products deliver consistent, threat-stopping performance you can trust.

### **AMMUNITION & COMPONENTS**

TAC-XPD AMMUNITION

TAC-XP HANDGUN COMPONENTS



PERSONAL DEFENSE

# TAC-XP



## BARNES M/LE 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 41.



**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 40.



# MATCH RANGE TARGET





## **PURSU 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, factory-fresh brass

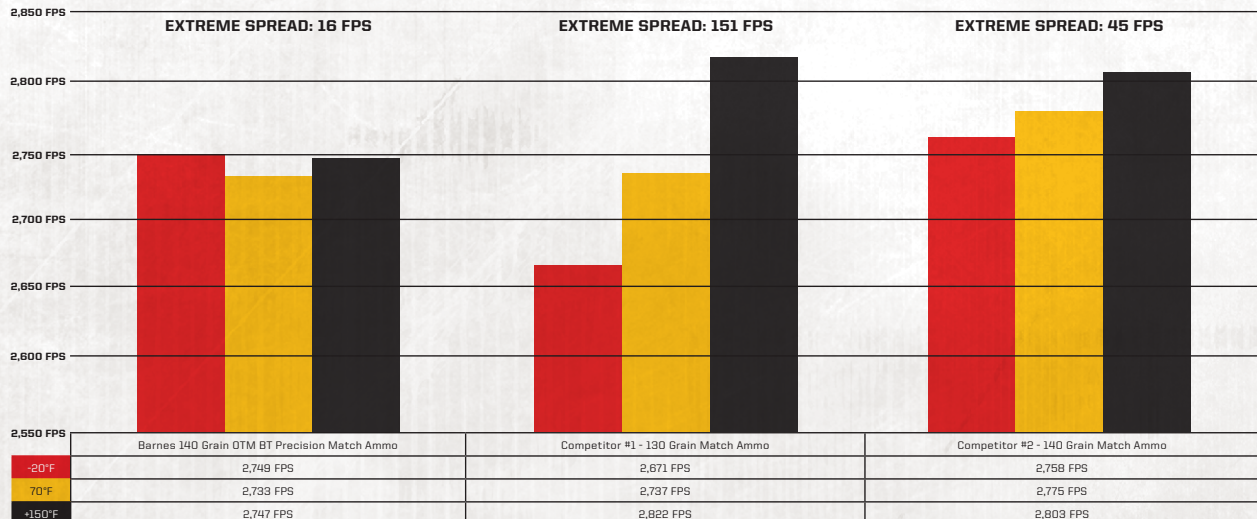


- Scan the QR Code located on each box to view Doppler-radar generated drop tables specific to each load
- Barnes proudly supplies precision ammunition to America's Military Elite

### 6.5 GRENDDEL, 120 GR, #30831

SEE FULL PRODUCT LISTING ON PAGE 40.

## 260 REMINGTON MATCH AMMUNITION TEMPERATURE STABILITY COMPETITIVE ANALYSIS





## ALWAYS FINDS ITS MARK, BUT RARELY LEAVES ONE.

### RANGE AR RIFLE AMMUNITION

Delivers higher velocity, flatter trajectory and ultimate accuracy at an affordable price. First quality factory-fresh brass is paired with a lead-free, copper-jacketed, zinc core OTFB projectile. Scan the QR code located on the back of each box to view drop tables for a variety of barrel lengths specific to each load.

Buy, Try, and Never Go Back.

SEE FULL PRODUCT LISTING ON PAGE 42.



#### 1. OPEN TIP (OT)

#### 2. LIGHT-FOR-CALIBER, ZINC CORE OTFB PROJECTILE

#### 3. PROPELLANT OPTIMIZED FOR AR PLATFORMS OF ANY BARREL LENGTH

#### 4. CLEAN SHOOTING, NON-CORROSIVE PRIMING

## PERFECTLY SUITED FOR MULTIPLE APPLICATIONS.



### MPG (MULTI-PURPOSE GREEN) COMPONENTS

MPG technology was developed for military and law enforcement applications. This bullet design features a highly frangible, powdered-metal copper-tin core inside a gilding metal jacket. Unlike frangible bullets lacking a protective jacket, MPG bullets remain intact under the rigors of handling, feeding and firing in high capacity magazines. This eliminates the primary cause of jammed actions and plugged barrels often experienced when firing frangible ammunition in modern AR-style rifles.

SEE FULL PRODUCT LISTING ON PAGE 42.



### MINIMIZING RUN-OUT

Any variation in the centerline of the rifle bore, the case, and the bullet diminishes precision. Taking the time to ensure your sizing die is properly set up to produce cases with concentric necks will be worthwhile. A concentricity gauge will confirm that your finished ammunition is within a thousandth of an inch of perfect concentricity.



MATCH / RANGE / TARGET

# MATCH BURNERS

## 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, #30100**

**6.5MM, 145 GR, #30102**

SEE FULL PRODUCT LISTING ON PAGE 42.



BULK  
PACKS

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



## 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.

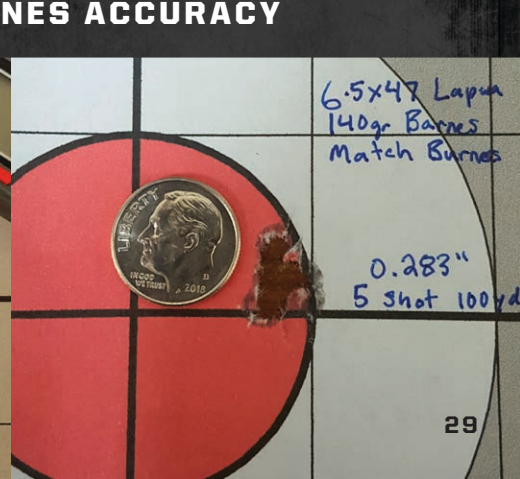
- Use the proper jag and a tight-fitting patch soaked with Barnes CR-10 Bore Cleaner to remove the powder fouling.
  - › Use 2-4 patches and push each patch completely through the bore with one long stroke.
- Install the proper size cleaning brush, soak with CR-10 and stroke the bore 10-20 times.
  - › 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.

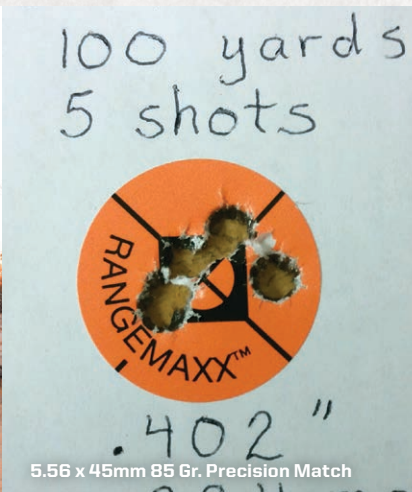
- Push 2-4 patches soaked with brake cleaner through the barrel with one long stroke for each patch.
- Clean inside chamber with a dry patch.
- Lube the bolt lugs with bolt grease and clean out the lug recesses. Also, apply a small amount of grease to the bolt handle & cocking piece camming surfaces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

## BARNES ACCURACY





375 H&H 300 Gr. VOR-TX Safari



5.56 x 45mm 85 Gr. Precision Match



338 Remington Ultra Mag 250 Gr. VOR-TX LR



5.56 x 45mm 85 Gr. Precision Match



300 AAC Blackout 110 Gr. VOR-TX



300 Win Mag 168 Gr. Tipped TSX



45-70 Govt 300 Gr. TSX FN



375 H&H 270 Gr. TSX



6.5 Creedmoor 127 Gr.



6.5-300 Wby 127 Gr. LRX



6mm Creedmoor 95 Gr. VOR-TX LR



358 Win-200 Gr. T



300 WSM 180 Gr. Tipped TSX



6.5 Creedmoor 140 Gr. Precision Match



6.5 x 300 Win Mag 127 Gr. LRX



280 Ackley Improved 139 Gr. LRX



300 Win Mag 180 Gr VOR-TX.



6.5 Creedmoor 127 Gr. VOR-TX LR



Tipped TSX



9.3 x 62mm 250 Gr. TSX



338 Lapua 300 Gr. Precision Match



375 H&H 235 Gr. VOR-TX LR



## VOR-TX LR CENTERFIRE RIFLE CARTRIDGES

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
30232	LR6CRDM1	LRX BT	95	6mm Creedmoor	20	65129 0	10	05129 8
28986	LR65CR01	LRX BT	127	6.5 Creedmoor	20	16512 4	10	06512 7
31198	LR270W01	LRX BT	129	270 Win	20	27012 5	10	07012 8
28981	LR7MM01	LRX BT	139	7mm Remington Magnum	20	17145 3	10	07145 6
28985	LR7RUM01	LRX BT	145	7mm Remington Ultra Magnum	20	17146 0	10	07146 3
30748	LR30061	LRX BT	175	30-06 Sprg	20	30617 6	10	30607 7
29013	LR300W01	LRX BT	190	300 Win Magnum	20	13190 7	10	03190 0
29011	LR300R01	LRX BT	190	300 Remington Ultra Mag	20	13019 1	10	03019 4
29061	LR338R01	LRX BT	250	338 Remington Ultra Magnum	20	13383 3	10	03383 6
29067	LR375R01	LRX BT	270	375 Remington Ultra Magnum	20	13752 7	10	03752 0

## VOR-TX CENTERFIRE RIFLE CARTRIDGES

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
22008	BB2225XFB1	TSX FB	50	22-250 Remington	20	02245 8	10	12245 5
21520	BB223R2	TSX FB	55	223 Remington	20	02235 9	10	12235 6
31190*	BB552X1	TSX BT	62	5.56 x 45mm	20	15093 9	10	15093 6
31191*	BB556X2	TSX BT	70	5.56 x 45mm	20	15092 2	10	15092 9
21522	BB243W1	TTSX BT	80	243 Win	20	02438 4	10	12438 1
21557	BB25062	TTSX BT	100	25-06 Remington	20	12510 4	10	02510 7
22010	BB260XTBT1	TTSX BT	120	260 Remington	20	02601 2	10	12601 9
30829	BB656R1	TTSX BT	115	6.5 Grendel	20	65120 7	10	05120 5
30815	BB65CRD1	TTSX BT	120	6.5 Creedmoor	20	02246 5	10	12246 2
21524	BB270W1	TTSX BT	130	270 Win	20	02703 3	10	12703 0
21559	BB270WSM3	TSX BT	140	270 WSM	20	12705 4	10	02705 7
21561	BB7MM082	TTSX BT	120	7mm-08 Remington	20	12843 3	10	02843 6
21526	BB7MM1	TTSX BT	140	7mm Remington Magnum	20	02844 3	10	12844 0
21563	BB7MM3	TTSX BT	150	7mm Remington Magnum	20	12845 7	10	02845 0
21529	BB7MM2	TSX BT	160	7mm Remington Magnum	20	02846 7	10	12846 4
21548	BB300AAC1	TAC-TX FB	110	300 AAC Blackout	20	13011 5	10	03011 8
30827	BB300AAC2	TAC-TX BT	120	300 AAC Blackout	20	30120 1	10	30120 8
21535	BB30301	TSX FN	150	30-30 Win	20	03030 9	10	13030 6

NEW

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 CENTERFIRE RIFLE CARTRIDGES (CONT'D)

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
21531	BB30061	TTSX BT	150	30-06 SPRG	20	03065 1	10	13065 8
21565	BB30062	TTSX BT	168	30-06 SPRG	20	13067 2	10	03067 5
21533	BB30063	TTSX BT	180	30-06 SPRG	20	03068 2	10	13068 9
30816	BB308W3	TTSX BT	130	308 Win	20	15109 7	10	15109 4
21540	BB308W1	TTSX BT	150	308 Win	20	03085 9	10	13085 6
21541*	BB308W2	TTSX BT	168	308 Win	20	03086 6	10	13086 3
21569	BB300WM1	TTSX BT	150	300 Win Mag	20	13005 4	10	03005 7
21537	BB300WM2	TTSX BT	165	300 Win Mag	20	03006 4	10	13006 1
21538	BB300WM3	TTSX BT	180	300 Win Mag	20	03008 8	10	13008 5
21567	BB300WSM1	TTSX BT	150	300 WSM	20	13015 3	10	03015 6
21536	BB300WSM2	TTSX BT	165	300 WSM	20	03016 3	10	13016 0
21571	BB300RUM1	TTSX BT	165	300 Remington Ultra Magnum	20	13026 9	10	03026 2
21539	BB300UM3	TTSX BT	180	300 Remington Ultra Magnum	20	03028 6	10	13028 3
22013	BB300XTBT1	TTSX BT	180	300 Wby Magnum	20	05001 7	10	15001 4
21581	BB35W180	TTSX FB	180	35 Whelen	20	03580 9	10	13580 6
30729	BB35W200	TTSX FB	200	35 Whelen	20	35200 5	10	25200 8
30838	BB450B1	TTSX	250	450 Bushmaster	20	45025 1	10	05025 3
NEW 21575	BB338WM1	TTSX BT	210	338 Win Mag	20	13381 9	10	03381 2
21542	BB338WM2	TTSX BT	225	338 Win Mag	20	03382 9	10	13382 6
30727	BB338LAP1	LRX BT	280	338 Lapua Mag	20	38280 4	10	38280 1
21579	BB4570G3	TSX FN	300	45-70 Govt	20	14573 7	10	04573 0

## VOR-TX SAFARI CENTERFIRE RIFLE CARTRIDGES

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
22014	BB375HH1	TSX FB	300	375 HGH Mag	20	13001 6	10	03001 9
22017	BB416REM1	TSX FB	400	416 Remington Magnum	20	14164 7	10	04164 0
22018	BB416REM2	BND SLD RN	400	416 Remington Magnum	20	14168 5	10	04168 8
22034	BB416RIG1	TSX FB	400	416 Rigby	50	14174 6	10	04174 9
22035	BB416RIG2	BND SLD RN	400	416 Rigby	20	14178 4	10	04178 7
22022	BB458WIN1	TSX FB	450	458 Win Mag	20	14562 1	10	04562 4
22027	BB458LOTT1	TSX FB	500	458 Lott	20	14574 4	10	04574 7
22030	BB470NE1	TSX FB	500	470 Nitro Express	20	14704 5	10	04704 8
22031	BB470NE2	BND SLD FN	500	470 Nitro Express	20	14708 3	10	04708 6
22032	BB500NE1	TSX FB	570	500 Nitro Express 3"	20	15015 1	10	05015 4
22033	BB500NE2	BND SLD FN	570	500 Nitro Express 3"	20	15017 5	10	05017 8

TSX = TSX Bullet | FB = Flat Base | TTSX = Tipped TSX Bullet | BT = Boat Tail | BND SLD = Banded Solids | RN = Round Nose | FN = Flat Nose | LRX = Long Range X Bullet  
 \*Special Barrel Twist Requirements: 21541 requires 1:11" twist or faster.



## VOR-TX HANDGUN HUNTING

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
21543	BB357M2	XPB	140	357 Magnum	20	15352 7	10	05352 0
31180	BB10MMA1	XPB	155	10mm Auto	20	10155 9	10	10155 6
22037	BB41MAG1	XPB	180	41 Remington Magnum	20	15410 4	10	05410 7
21545*	BB44MAG4	XPB	225	44 Remington Magnum	20	15444 9	10	05444 2
21547	BB45CLT3	XPB	200	45 Colt	20	15453 1	10	05453 4
22024	BB454CAS1	XPB	250	454 Casull	20	15454 8	10	05454 1

## VOR-TX EXPANDER SHOTSHELL

ORDER NUMBER	INDEX NUMBER	GAUGE	SHELL LENGTH	VELOCITY	WEIGHT (GR.)	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
20733	XPDR12	12	2¾"	1450	437	5	15111 0	20	03712 4
20737	XPDR12M	12	3"	1550	437	5	15087 8	20	13712 1
20735	XPDR20	20	2¾"	1800	250	5	15087 8	20	05020 8
20739	XPDR20M	20	3"	1850	250	5	15087 8	20	15020 5

## LRX (LONG-RANGE X)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
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
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
<b>NEW</b> 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

LRX = Long Range X bullet | BT = Boat Tail

\* Special Barrel Twist Requirements: **21545** requires 1:20" twist or faster, **30228, 30284 & 30376** requires 1:8" twist or faster, **30318** requires 1:11" twist or faster, **30374 & 30377** requires 1:10" twist or faster.



## VARMINATOR

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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	ROUNDS 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: **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	ROUNDS 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
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	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30176	22 Cal	0.224"	45	TSX FB	100	22441 8	10
30174	22 Cal	0.224"	50	TSX FB	100	22440 1	10
30180*	22 Cal	0.224"	53	TSX FB	100	22443 2	10
30182*	22 Cal	0.224"	55	TSX FB	100	22444 9	10
30190*	22 Cal	0.224"	62	TSX BT	100	22460 9	10
30193*	22 Cal	0.224"	70	TSX BT	100	22470 8	10
30204*	22 Valkyrie	0.224"	78	TSX BT	50	22478 4	10
30212	6mm	0.243"	85	TSX BT	100	24341 9	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
30246	6.5mm	0.264"	130	TSX FB	50	26442 1	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
30287	7mm	0.284"	120	TSX BT	50	28442 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

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 1:9.5" twist or faster.



## TSX BULLETS (CONT'D)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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	308 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
30455	35 Cal	0.358"	200	TSX FB	50	35820 5	5
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	41190 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 FB	50	45841 7	10
30630	45-70 GOVT	0.458"	300	TSX 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	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30453	357 Mag	0.357"	140	XPB	20	35714 7	10
30512	41 Remington Mag	0.410"	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 SOLIDS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30466	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

## ORIGINALS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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

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



## ORIGINALS (CONT'D)

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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

## BUSTERS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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
30560	50 Cal	0.451"	245	Spit-Fire BT	15	45121 0	10
30574	50 Cal	0.451"	245	Spit-Fire BT	24	45142 5	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
30567	50 Cal	0.451"	285	Spit-Fire BT	15	45128 9	10
30579	50 Cal	0.451"	285	Spit-Fire BT	24	45154 8	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
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-XPB DEFENSE AMMUNITION

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
21552	BPD380A1	TAC-XP	80	380 Auto	20	13808 1	10	23808 8
21551	BPD9MM1	TAC-XP	115	9mm Luger +P	20	13511 0	10	23511 7
21550	BPD357M2	TAC-XP	125	357 Magnum	20	13572 1	10	23572 8
21554	BPD40SW1	TAC-XP	140	40 S&W	20	14001 5	10	24001 2
21555	BPD45AP1	TAC-XP	185	45 Auto +P	20	14501 0	10	24501 7

## PRECISION MATCH AMMUNITION

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
30814	BB6CRDM1	OTM BT	112	6mm Creedmoor	20	65110 8	10	05110 6
30846*	BB556M1	OTM BT	69	5.56 x 45mm	20	15089 2	10	05089 5
30848*	BB556M2	OTM BT	85	5.56 x 45mm	20	15113 4	10	15113 1
30831	BB65GR2	OTM BT	120	6.5 Grendel	20	65121 4	10	05121 2
30742	BB260RM1	OTM BT	140	260 Remington	20	02248 9	10	12248 6
30166	BB65CRDM1	OTM BT	140	6.5 Creedmoor	20	02247 2	10	12247 9
30737	BB300BLKM1	OTM BT	125	300 AAC Blackout	20	30012 9	10	30002 0
30818	BB308WM1	OTM BT	175	308 Win	20	15088 5	10	15088 2
30740	BB300WMM1	OTM BT	220	300 Win Mag	20	15090 8	10	15090 5
30728	BB338LMM1	OTM BT	300	338 Lapua Mag	20	15091 5	10	15091 2

NEW

## M/LE TAC-X BULLETS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30155*	223 Cal / 5.56 x 45mm	0.224"	55	TAC-X FB	50	22405 0	10
30156*	223 Cal / 5.56 x 45mm	0.224"	62	TAC-X BT	50	22406 7	10
30158*	223 Cal / 5.56 x 45mm	0.224"	70	TAC-X BT	50	22407 4	10
30239	6.5mm	0.264"	120	TAC-X BT	50	26423 0	10
30257	6.8mm	0.277"	85	TAC-X FB	50	27733 9	10
30259	6.8mm	0.277"	110	TAC-X BT	50	27734 6	10
30336	30 Cal	0.308"	110	TAC-X FB	50	30821 7	10
30337	30 Cal	0.308"	150	TAC-X BT	50	30824 8	10
30338	30 Cal	0.308"	168	TAC-X BT	50	30826 2	10
30387	7.62 x 39mm	0.310"	123	TAC-X BT	50	31003 6	10
30403	338 Lapua Mag	0.338"	285	TAC-X BT	50	33807 8	10
30695	50 BMG	0.510"	647	TAC-X BT	20	51006 1	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.





**M/LE TAC-TX BULLETS**

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30236	6.5mm	0.264"	100	TAC-TX BT	50	26412 4	10
30237	6.5mm	0.264"	120	TAC-TX BT	50	26414 8	10
30253	6.8mm	0.277"	95	TAC-TX BT	50	27721 6	10
30321	300 AAC Blackout	0.308"	110	TAC-TX FB	50	30811 8	10
30358	30 Cal	0.308"	110	TAC-TX FB	50	30851 4	10
30320	300 AAC Blackout	0.308"	120	TAC-TX BT	50	30812 5	10
30359	30 Cal	0.308"	168	TAC-TX BT	50	30856 9	10
30420	338 Cal	0.338"	225	TAC-TX BT	50	33856 6	10
30419	338 Lapua Mag	0.338"	265	TAC-TX BT	50	33858 0	10
30640	458 SOCOM	0.458"	300	TAC-TX BT	50	45863 9	10
31142	6.5mm	0.264"	115	TAC-TX BT	50	26409 4	10

NEW

**M/LE TAC-XP PISTOL BULLETS**

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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

**M/LE TAC-LR BULLETS (LONG RANGE SOLIDS)**

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30702	50 BMG	0.510"	750	TAC-LR BT	20	51066 5	10
30705	50 BMG	0.510"	750	TAC-LR Tangent BT	20	51076 4	10

**M/LE TAC-RRLP BULLETS (REDUCED RICOCHET LIMITED PENETRATION)**

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE
30161	223 CAL/5.56 x 45mm	0.224"	55	RRLP FB	100	22414 2	10
30252	6.8mm	0.277"	85	RRLP FB	100	27711 7	10
30313	30 Cal	0.308"	150	RRLP FB	50	30802 6	10
30390	7.62 x 39mm	0.310"	108	RRLP FB	50	31010 4	10

BT = Boat Tail | FB = Flat Base



# MATCH / RANGE / TARGET SPECIFICATIONS

## RANGE AR

ORDER NUMBER	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
30844	BB556Z1	Zn Core OTFB	52	5.56 x 45mm	20	15111 0	10	15111 7
30733	BB300BLKZ1	Zn Core OTFB	90	300 AAC Blackout	20	15087 8	10	15087 5

## MATCH BURNERS

ORDER NUMBER	BULLET DESCRIPTION	NOMINAL BULLET DIA.	WEIGHT (GR.)	BULLET TYPE	ROUNDS 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	0.243"	120	Match Burner OTM BT	100	26401 8	10
30230	6.5mm	0.264"	140	Match Burner OTM BT	100	26404 9	10
NEW 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	ROUNDS 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
NEW 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	ROUNDS 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



# ACCESSORIES

## ACCESSORIES

ORDER NUMBER	DESCRIPTION	UPC BOX 7 16876	BOXES PER CASE
30745	Barnes Reloading Manual #4	01108 7	10
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

ZN Core OTFB = Zinc Core Open Tip Flat Base | FB = Flat Base | BT = Boat Tail | FN = Flat Nose

\* Special Barrel Twist Requirements: **30195** requires 1:9" twist or faster, **30162** requires 1:10" twist or faster, **30164** & **30206** requires 1:9" twist or faster, **30864** requires 1:7.5" twist or faster.

# CENTERFIRE RIFLE BALLISTICS

CARTRIDGE	INDEX / EDI NO.	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	BB23R2	55	TSX FB	1.5	200	3240	2774	2353	1970	1282	940	676	474	-1.5	1.5	0.0	-7.9	0.209
5.56 x 45mm	BB556Z1	55	Zinc FB	2.5	200	3150	2705	2301	1934	1146	845	612	432	-2.5	1.2	0.0	-7.8	0.215
	BB556X1	62	TSX BT	2.5	200	3000	2674	2370	2086	1239	984	773	599	-2.5	1.2	0.0	-7.4	0.287
	BB556M1	69	MATCH BURNER OTM BT	2.0	100	2900	2621	2359	2111	-	-	-	-	-2.0	0.0	-3.1	-12.4	0.330
	BB556X2	70	TSX BT	2.5	200	2850	2560	2289	2034	1263	1019	814	643	-2.5	1.4	0.0	-8.1	0.314
	BB556M2	85	MATCH BURNER OTM BT	2.0	100	2600	2385	2180	1986	-	-	-	-	-2.0	0.0	-4.1	-15.6	0.403
22-250 Remington	BB2225XFB1	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	BB6CRDM1	112	MATCH BURNER OTM BT	2.0	100	2960	2808	2662	2520	-	-	-	-	-2.0	0.0	-2.4	-9.7	0.624
243 Win	BB243W1	80	TTSX BT	1.5	200	3350	3042	2755	2486	1994	1644	1349	1098	-1.5	1.1	0.0	-5.7	0.331
25-06 Remington	BB25062	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 Creedmoor	BB65CRD1	120	TTSX BT	1.5	200	2910	2685	2470	2266	2257	1921	1626	1368	-1.5	1.7	0.0	-7.4	0.412
	BB65CRDM1	140	MATCH BURNER OTM BT	2.0	100	2700	2548	2400	2258	-	-	-	-	-2.0	0.0	-3.4	-12.8	0.586
6.5 Grendel	BB65GR1	120	MATCH BURNER OTM BT	1.5	100	2590	2401	2221	2048	-	-	-	-	-1.5	0.0	-4.5	-16.1	0.460
260 Remington	BB260XTBT1	120	TTSX BT	1.5	200	2950	2723	2506	2300	2319	1976	1674	1410	-1.5	1.6	0.0	-7.1	0.412
	BB260RM1	140	MATCH BURNER OTM BT	2.0	100	2735	2581	2433	2290	-	-	-	-	-2.0	0.0	-1.5	-12.3	0.586
270 Win	BB270W1	130	TTSX BT	1.5	200	3060	2815	2584	2364	2704	2289	1928	1613	-1.5	1.5	0.0	-6.7	0.392
270 WSM	BB270WSM3	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	BB280XTBT1	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	BB7MM082	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	BB7MM1	140	TTSX BT	1.5	200	3100	2865	2642	2429	2988	2552	2170	1835	-1.5	1.4	0.0	-6.4	0.412
	BB7MM3	150	TTSX BT	1.5	200	3060	2846	2642	2448	3120	2699	2326	1996	-1.5	1.4	0.0	-6.4	0.450
	BB7MM2	160	TSX BT	1.5	200	2950	2738	2536	2343	3093	2664	2286	1951	-1.5	1.6	0.0	-7.0	0.443
300 AAC Blackout	BB300BLKZ1	90	Zinc FB	2.5	100	2500	2127	1789	1492	1249	905	640	445	-2.5	0.0	-5.3	-21.5	0.223
	BB300AAC1	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
	BB300AAC2	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
30-30 Win	BB30301	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	BB30061	150	TTSX BT	1.5	200	3000	2784	2579	2382	2998	2583	2216	1891	-1.5	1.5	0.0	-6.7	0.440
	BB30062	168	TTSX BT	1.5	200	2850	2654	2467	2288	3031	2629	2271	1953	-1.5	1.7	0.0	-7.4	0.470
	BB30063	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	BB300WM1	150	TTSX BT	1.5	200	3285	3044	2816	2600	3595	3087	2643	2252	-1.5	1.1	0.0	-5.5	0.420
	BB300WM2	165	TTSX BT	1.5	200	3120	2899	2690	2489	3567	3081	2651	2271	-1.5	1.3	0.0	-6.1	0.442
	BB300WM3	180	TTSX BT	1.5	200	2960	2765	2579	2400	3503	3057	2659	2303	-1.5	1.5	0.0	-6.8	0.484
	BB300WMM1	220	MATCH BURNER OTM BT	2.0	100	2775	2633	2494	2360	-	-	-	-	-2.0	0.0	-3.0	-11.6	0.611
300 WSM	BB300WSM1	150	TTSX BT	1.5	200	3310	3068	2839	2621	3650	3136	2685	2289	-1.5	1.1	0.0	-5.4	0.420
	BB300WSM2	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	BB308W3	130	TTSX BT	1.5	200	3125	2848	2587	2341	2820	2342	1933	1583	-1.5	1.4	0.0	-6.6	0.350
	BB308W1	150	TTSX BT	1.5	200	2900	2689	2488	2295	2802	2409	2062	1755	-1.5	1.7	0.0	-7.3	0.440
	BB308W2	168	TTSX BT	1.5	200	2700	2511	2330	2156	2720	2352	2025	1734	-1.5	2.0	0.0	-8.4	0.470
	BB308WM1	175	MATCH BURNER OTM BT	2.0	100	2600	2432	2269	2111	-	-	-	-	-2.0	0.0	-3.9	-14.5	0.521
300 Wby Mag	BB300XTBT1	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	BB300RUM1	165	TTSX BT	1.5	200	3350	3117	2897	2687	4113	3561	3076	2646	-1.5	1.0	0.0	-5.2	0.442
	BB300UM3	180	TTSX BT	1.5	200	3225	3018	2821	2632	4158	3642	3181	2770	-1.5	1.2	0.0	-5.5	0.484
338 Win Mag	BB338W1	210	TTSX BT	1.5	200	2865	2674	2490	2314	3828	3334	2892	2498	-1.5	1.7	0.0	-7.3	0.482
	BB338W2	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 Lapua Mag	BB338LAP1	280	LRX BT	1.5	200	2600	2469	2341	2218	4204	3791	3410	3059	-1.5	2.1	0.0	-8.5	0.667
	BB338LMM1	300	MATCH BURNER OTM BT	2.0	100	2600	2483	2369	2258	-	-	-	-	-2.0	0.0	-3.6	-13.4	0.716
35 Whelen	BB35W180	180	TTSX FB	1.5	200	2900	2589	2299	2027	3362	2680	2112	1643	-1.5	1.9	0.0	-8.5	0.295
	BB35W200	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	BB375HH1	300	TSX FB	1.5	100	2540	2301	2075	1863	4299	3529	2870	2313	-1.5	0.0	-5.1	-18.3	0.357
416 Remington Magnum	BB416REM1	400	TSX FB	1.5	100	2420	2208	2007	1817	5203	4331	3577	2932	-1.5	0.0	-5.7	-20.0	0.392
	BB416REM2	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	BB416RIG1	400	TSX FB	1.5	100	2400	2189	1989	1800	5117	4257	3513	2878	-1.5	0.0	-5.8	-20.4	0.392
	BB416RIG2	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	BB4570G3	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	BB450B1	250	TTSX BT	2.5	100	2200	1811	1469	1206	2686	1821	1198	807	-2.5	0.0	-8.8	-33.7	0.195
458 Win Mag	BB458WIN1	500	TSX FB	1.5	100	2240	2025	1822	1634	5015	4097	3319	2670	-1.5	0.0	-7.0	-24.5	0.369
458 Lott	BB458LOTT1	500	TSX FB	1.5	100	2210	1918	1837	1667	5424	4523	3745	3084	-1.5	0.0	-7.0	-24.5	0.412
470 Nitro Express	BB470NE1	500	TSX FB	1.5	100	2150	1936	1737	1554	5133	4164	3350	2680	-0.9	0.0	-8.4	-28.4	0.363
	BB470NE2	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"	BB500NE1	570	TSX FB	1.5	100	2100	1893	1700	1523	5583	4536	3657	2935	-0.9	0.0	-8.8	-29.8	0.369
	BB500NE2	570	BANDED SOLID	1.5	100	2100	1791	1700	1516	5583	4060	2911	2098	-0.9	0.0	-10.0	-35.3	0.243

VOR-TX RIFLE    
 VOR-TX SAFARI    
 RANGE AR    
 PRECISION MATCH

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](http://barnesbullets.com)

# HUNTING PRECISION AND PERFORMANCE THAT REACHES FROM AMERICA TO THE FIELDS AND WOODS OF EUROPE.

**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	INDEX NUMBER	BULLET STYLE	WEIGHT (GR.)	CARTRIDGE	ROUNDS PER BOX	UPC BOX 7 16876	BOXES PER CASE	UPC CASE 7 16876
31300	BB764EU1	LRX BT	145	7 x 64 Brenneke	20	15105 9	10	05105 2
31306	BB8X57EU1	TTSX	160	8 x 57 IS	20	15104 2	10	05104 5
31312	BB93X62EU1	TTSX	250	9.3 x 62mm	20	15103 5	10	05103 8
31330	BB3006EU1	TTSX	150	30-06 SPRG	20	15102 8	10	05102 1
31331	BB3006EU2	TTSX	168	30-06 SPRG	20	15101 1	10	05101 4
31333	BB3006EU3	TTSX	180	30-06 SPRG	20	15100 4	10	05100 7
31340	BB308EU1	TTSX	130	308 Win	20	15108 0	10	05108 3
31341	BB308EU2	TTSX	150	308 Win	20	15106 6	10	05106 9
31342	BB308EU3	TTSX	168	308 Win	20	15107 3	10	05107 6



## CENTERFIRE RIFLE BALLISTICS

CARTRIDGE	INDEX / EDI NO.	WT. (GR)	SIGHT HEIGHT (INCHES)	ZERO (YARDS)	VELOCITY (FPS)						ENERGY (FT-LB)						TRAJECTORY (INCHES)					BALLISTIC COEFFICIENT	
					MZL	100	200	300	400	500	MZL	100	200	300	400	500	MZL	100	200	300	400		500
6mm Creedmoor	30232	95	1.5	200	3150	2925	2711	2507	2312	2126	2094	1805	1551	1326	1128	953	-1.5	1.29	0.0	-6.02	-17.59	-35.68	0.436
6.5 Creedmoor	LR65CR01	127	1.5	200	2825	2630	2443	2263	2092	1928	2251	1951	1683	1445	1234	1048	-1.5	1.8	0.0	-7.6	-22.0	-44.4	0.468
270 Win	31198	129	1.5	200	3140	2928	2726	2533	2348	2171	2825	2457	2130	1839	1580	1351	-1.5	1.28	0.0	-5.96	-17.36	-35.06	0.463
7mm Remington Magnum	LR7MM01	139	1.5	200	3210	2998	2796	2603	2418	2240	3181	2775	2413	2091	1804	1549	-1.5	1.2	0.0	-5.6	-16.4	-33.2	0.470
7mm Remington Ultra Mag	LR7RUM01	145	1.5	200	3350	3138	2936	2743	2558	2381	3613	3170	2775	2422	2107	1825	-1.5	1.0	0.0	-5.1	-14.7	-29.7	0.486
300 Win Mag	LR300W01	190	1.5	200	2880	2694	2516	2345	2180	2022	3500	3064	2672	2321	2006	1726	-1.5	1.7	0.0	-7.2	-20.6	-41.4	0.499
300 Remington Ultra Mag	LR300R01	190	1.5	200	3125	2943	2769	2602	2440	2284	4121	3656	3236	2856	2513	2202	-1.5	1.3	0.0	-5.8	-16.7	-33.5	0.540
338 Remington Ultra Mag	LR338R01	250	1.5	200	2910	2755	2604	2459	2319	2183	4702	4213	3766	3358	2985	2645	-1.5	1.5	0.0	-6.7	-19.1	-38.0	0.602
375 Remington Ultra Mag	LR375R01	270	1.5	200	2980	2770	2569	2377	2193	2017	5325	4600	3957	3367	2883	2440	-1.5	1.5	0.0	-6.8	-19.8	-40.0	0.449

VOR-TX LR

## PISTOL & REVOLVER BALLISTICS

CARTRIDGE	INDEX / EDI NO.	WT. (GR)	BULLET STYLE	SIGHT HEIGHT (INCHES)	ZERO (YARDS)	VELOCITY (FPS)			ENERGY (FT-LB)			TRAJECTORY (INCHES)	
						MZL	25	50	MZL	25	50	25	50
357 Mag**	BPD357M2	125	TAC-XP	0.9	25	1200	1140	1089	400	361	330	0.0	-0.8
	BB357M2	140	XPB	0.9	25	1265	1192	1130	498	442	397	0.0	-0.6
9mm Luger + P †	BPD9MM1	115	TAC-XP	0.9	25	1125	1079	1040	323	297	276	0.0	-1.0
380 Auto	BPD380A1	80	TAC-XP	0.9	25	990	948	911	174	160	147	0.0	-1.5
40 S&W	BPD40SW1	140	TAC-XP	0.9	25	1120	1066	1018	394	353	323	0.0	-1.0
10mm Auto	BB10MMA1	155	XPB	0.9	25	1150	1105	1067	455	421	392	0.0	-0.9
41 Remington Magnum**	BB41MAG1	180	XPB	0.9	25	1520	1403	1298	924	787	673	0.0	-0.2
44 Remington Magnum**	BB44MAG1	225	XPB	0.9	25	1235	1172	1118	762	687	625	0.0	-0.7
45 Colt	BB45CLT1	200	XPB	0.9	25	1025	983	947	467	429	398	0.0	-1.4
45 Auto + P †	BPD45AP1	185	TAC-XP	0.9	25	1000	971	945	411	387	367	0.0	-1.4
454 Casull**	BB454CAS1	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](http://barnesbullets.com)

VOR-TX HANDGUN

TAC-XPB



## MUZZLELOADER BALLISTICS

SPIT-FIRE T-EZ TRAJECTORY (IN)											
50 CAL. 250 GR.					BC 0.195	50 CAL. 290 GR.					BC 0.223
Muzzle Velocity	1700 FPS	1900 FPS	2000 FPS	2100 FPS	2200 FPS	Muzzle Velocity	1650 FPS	1750 FPS	1850 FPS	1950 FPS	2050 FPS
MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5	MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5
50 yd.	3.0	2.2	1.9	1.6	1.4	50 yd.	3.1	2.6	2.3	1.9	1.6
100 yd.	3.8	2.9	2.6	2.3	2.0	100 yd.	3.8	3.4	3.0	2.6	2.3
150 yd.	0.0	0.0	0.0	0.0	0.0	150 yd.	0.0	0.0	0.0	0.0	0.0
200 yd.	-9.3	-7.4	-6.6	-5.9	-5.3	200 yd.	-9.3	-8.3	-7.3	-6.5	-5.8
250 yd.	-25.3	-20.3	-18.1	-16.3	-14.6	250 yd.	-25.0	-22.3	-19.9	-17.7	-15.9
300 yd.	---	-39.6	-35.6	-32.1	-28.9	300 yd.	---	---	-38.5	-34.5	-31.0

Note: Use with Barnes TMZ / T-EZ Aligner #30763

SPIT-FIRE TMZ TRAJECTORY (IN)											
50 CAL. 250 GR.					BC 0.210	50 CAL. 290 GR.					BC 0.241
Muzzle Velocity	1700 FPS	1900 FPS	2000 FPS	2100 FPS	2200 FPS	Muzzle Velocity	1650 FPS	1750 FPS	1850 FPS	1950 FPS	2050 FPS
MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5	MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5
50 yd.	2.9	2.0	1.8	1.5	1.3	50 yd.	3.0	2.6	2.2	1.9	1.6
100 yd.	3.7	2.8	2.5	2.2	1.9	100 yd.	3.8	3.3	2.9	2.5	2.2
150 yd.	0.0	0.0	0.0	0.0	0.0	150 yd.	0.0	0.0	0.0	0.0	0.0
200 yd.	-9.0	-7.1	-6.3	-5.7	-5.1	200 yd.	-9.0	-8.0	-7.1	-6.3	-5.6
250 yd.	-24.3	-19.4	-17.4	-15.5	-14.0	250 yd.	-24.1	-21.5	-19.1	-17.0	-15.2
300 yd.	---	-37.8	-33.9	-30.5	-27.5	300 yd.	---	---	-36.9	-33.0	-29.6

Note: Use with Barnes TMZ / T-EZ Aligner #30763

SPIT-FIRE MZ TRAJECTORY (IN)											
50 CAL. 245 GR.					BC 0.203	50 CAL. 285 GR.					BC 0.239
Muzzle Velocity	1700 FPS	1900 FPS	2000 FPS	2100 FPS	2200 FPS	Muzzle Velocity	1650 FPS	1750 FPS	1850 FPS	1950 FPS	2050 FPS
MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5	MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5
50 yd.	3.0	2.2	1.8	1.6	1.3	50 yd.	3.0	2.6	2.2	1.9	1.6
100 yd.	3.7	2.9	2.5	2.2	2.0	100 yd.	3.8	3.3	2.9	2.5	2.2
150 yd.	0.0	0.0	0.0	0.0	0.0	150 yd.	0.0	0.0	0.0	0.0	0.0
200 yd.	-9.2	-7.2	-6.5	-5.8	-5.2	200 yd.	-9.0	-8.0	-7.1	-6.3	-5.6
250 yd.	-24.8	-19.8	-17.7	-15.9	-14.3	250 yd.	-24.2	-21.5	-19.2	-17.1	-15.3
300 yd.	---	-38.6	-34.7	-31.2	-28.1	300 yd.	---	---	-37.1	-33.2	-29.7

Note: Use with Barnes SPTF Aligner #30678



**MUZZLELOADER BALLISTICS**

EXPANDER MZ TRAJECTORY (IN)											
50 CAL. 250 GR.					BC 0.189	50 CAL. 300 GR.					BC 0.207
Muzzle Velocity	1700 FPS	1900 FPS	2000 FPS	2100 FPS	2200 FPS	Muzzle Velocity	1650 FPS	1750 FPS	1850 FPS	1950 FPS	2050 FPS
MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5	MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5
50 yd.	3.0	2.2	1.9	1.6	1.4	50 yd.	3.2	2.7	2.3	2.0	1.7
100 yd.	3.8	3.0	2.6	2.3	2.0	100 yd.	4.0	3.5	3.0	2.7	2.4
150 yd.	0.0	0.0	0.0	0.0	0.0	150 yd.	0.0	0.0	0.0	0.0	0.0
200 yd.	-9.5	-7.5	-6.7	-6.0	-5.4	200 yd.	-9.6	-8.6	-7.6	-6.8	-6.0
250 yd.	-25.7	-20.6	-18.5	-16.6	-14.9	250 yd.	-25.9	-23.2	-20.7	-18.5	-16.6
300 yd.	---	-40.4	-36.4	-32.8	-29.5	300 yd.	---	---	-40.3	-36.2	-32.5

Note: Use with Barnes MZ Aligner #30661

EXPANDER MZ TRAJECTORY (IN)					
45 CAL. 195 GR.					BC 0.176
Muzzle Velocity	1975 FPS	2150 FPS	2250 FPS	2350 FPS	2425 FPS
MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5
50 yd.	2.0	1.5	1.3	1.1	1.0
100 yd.	2.8	2.2	2.0	1.8	1.6
150 yd.	0.0	0.0	0.0	0.0	0.0
200 yd.	-7.2	-5.9	-5.3	-4.8	-4.4
250 yd.	-19.9	-16.5	-14.9	-13.4	-12.4
300 yd.	---	-32.8	-29.6	-26.8	-24.9

Note: Use with Barnes MZ Aligner #30547

EXPANDER MZ TRAJECTORY (IN)											
54 CAL. 275 GR.					BC 0.184	54 CAL. 325 GR.					BC 0.204
Muzzle Velocity	1400 FPS	1500 FPS	1600 FPS	1700 FPS	1800 FPS	Muzzle Velocity	1400 FPS	1500 FPS	1600 FPS	1700 FPS	1800 FPS
MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5	MUZZLE	-1.5	-1.5	-1.5	-1.5	-1.5
50 yd.	2.0	1.7	1.4	1.1	0.9	50 yd.	1.9	1.6	1.3	1.1	0.9
100 yd.	0.0	0.0	0.0	0.0	0.0	100 yd.	0.0	0.0	0.0	0.0	0.0
150 yd.	-8.6	-7.6	-6.6	-5.8	-5.1	150 yd.	-8.3	-7.3	-6.4	-5.6	-4.9
200 yd.	-24.9	-22.1	-19.6	-17.4	-15.4	200 yd.	-24.0	-21.3	-18.8	-16.6	-14.6
250 yd.	---	---	-40.0	-35.8	-31.9	250 yd.	---	-42.9	-38.2	-34.0	-30.2
300 yd.	---	---	---	---	-55.9	300 yd.	---	---	---	-58.8	-52.6

Note: Use with Barnes MZ Aligner #30708

**SHOTGUN SLUG BALLISTICS**

VOR-TX EXPANDER TIPPED SLUG																		
GAUGE/ BORE	LINE	INDEX/ EDI NO.	RAMAC	LENGTH (INCHES)	SLUG WEIGHT (OZ./GR.)	SLUG STYLE	SIGHT HEIGHT	VELOCITY (FPS)			ENERGY (FT-LB)			TRAJECTORY (INCHES)			BALLISTIC COEFFICIENT	BARREL LENGTH*
								MZL	50yd	100yd	MZL	50yd	100yd	50yd	100yd	150yd		
20 Gauge	VOR-TX Expander Tipped Slug	XPDR20	20735	2¾	250 GR.	Expander Tipped	1.5	1825	1631	1457	1849	1477	1178	0.0	-1.8	-7.7	0.179	26
20 Gauge	VOR-TX Expander Tipped Slug	XPDR20M	20739	3	250 GR.	Expander Tipped	1.5	1900	1700	1519	2004	1605	1280	0.0	-1.5	-6.8	0.179	26
12 Gauge	VOR-TX Expander Tipped Slug	XPDR12	20733	2¾	438 GR.	Expander Tipped	1.5	1450	1313	1198	2042	1676	1395	0.0	-3.5	-13.2	0.200	30
12 Gauge	VOR-TX Expander Tipped Slug	XPDR12M	20737	3	438 GR.	Expander Tipped	1.5	1550	1397	1264	2334	1895	1551	0.0	-3.0	-11.4	0.200	30



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