

# Tubb Adaptive Target Rifle

**3D-printed temperature-neutral cheekpiece**, fully adjustable on both the X and Y axis. **4-Way Buttplate** adjustable for length, height, cant, angle, and offset. One-wrench adjustment, wrench included in its own secure receptacle.

**3-lug concave nonsymmetrical bolt head.** Concave orientation allows self-centering of the entire bolt head. Removable bolt head allows easy adaptation of different calibers: Standard (.473), Magnum (.532), and 338 (.585) case head diameters.

**Full aluminum-alloy action.**

**70-degree bolt lift.**

**Fully-adjustable folding buttstock assembly**, using one wrench (supplied within its own receptacle). Buttplate adjustable for length, height, cant, angle, and offset.

**Ergonomic Tubb pistol grip design.**

**Full-length 20 MOA Picatinny rail** machined into receiver. Allows proper scope placement. Zero will not shift because of rail movement.

**Fully Machined Magazine System.** "Universal" design accommodates a variety of cartridges. Available single-load insert.

**Included Bipod:** correctly designed for optimum results and security. Additionally, the TUBB Bipod (included) is another example of the OUT OF THE BOX ideas wherein the user can instantly attain additional advantage over conventional bipod designs.

**Easily removable trigger housing** as a complete sub-assembly. The entire fire-control group can be removed in simple rearward motion with the removal of a single screw from the receiver.

**Patented T7T 2-stage trigger** (square-sear model) is without peer comparing its adjustment range, tuneability, reliability, and safety features. Adjustability ranges from ounces to pounds. It also features a length-of-pull position-adjustable trigger.

**Exclusive Barrel-Extension Technology** means that the Adaptive Target Rifle may be purchased without a barrel so the user may pick brand, caliber, barrel length, and contour. This means that your favorite barrel maker or gunsmith needs only the barrel extension that comes with the rifle; any number of additional extensions are available. No FFL paper work and no shipping of your firearm for a barreling job! Quite number of barrelers are prepared to provide this service. They currently have our headspace standards which will allow the buyer to get a chambered barrel at a better price and in a shorter time than if they had a conventional bolt-action rifle. This is an important feature, especially for competitive shooters and those who wish to almost instantly re-configure their rifle to suit any need. A toolkit is included.

**Indexable Round forend tube** is comfortable to the hand (no sharp edges) and yet is a full-length rail system component with a built-in mirage shield. Accessories can be mounted at 12/3/6/9 o'clock orientations along the full length of the forend.

Available quick-detach sleeve insert allows for sling attachment.



Some 16 years ago I was awarded one of the crowning achievements in a shooting career: I was able to design my own rifle, one that embodied proven design elements I knew to be important. That rifle was the TUBB 2000 (T2K). A T2K rifle holds most all of the NRA Across The Course and Long Range National Records in the hands of a host of individual performers over the past 16 years.

Well, I got a second chance... **The Adaptive Target Rifle** ("TUBBGUN") has been a work in progress which encompassed over 17 years of new ideas since the T2K was introduced, coupled with the results of over 2 years of prototype testing.

With this rifle I was able to take each and every system component and refine, redesign, and reconstruct it – it's the evolution of innovation in high-end rifle construction. Simply put this Adaptive Target Rifle incorporates the BEST designs gained from experience (the best teacher). It is a truly superior rifle system design.

David Tubb

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## COMPLETE ACTION DETAILS ON PAGE 2



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**The Adaptive Target Rifle is the only rifle available that encompasses an overall design that allows its use in virtually any application, with no compromises.**

Its dynamic design allows opportunities for fitting the individual's requirements in attaining a solid shooting position that conventional rifle designs simply cannot accomplish.

Additionally, the Adaptive Target Rifle is the most flexible platform available: its Barrel-Extension System allows easy barrel changes, letting the user have a multitude of barrels ready-to-install using the included toolkit. From configuration of a lightweight 338-caliber hunting rifle to a 22-pound F Class competitor, the Adaptive Target Rifle allows options and opportunities unavailable in other platforms.

Every component in this system has been addressed and detailed to provide the very best package attainable: trigger, stock, forend, action mechanisms, magazine, adjustability, and ease of use, are second to none.

The **Adaptive Target Rifle** offers a lot... By design, the Adaptive Target Rifle is utterly reliable and likely the most accurate rifle you will ever own...

# Adaptive Target Rifle FEATURES + DESIGN

## ACTION SYSTEM

From a pure performance standpoint, the Adaptive Target Rifle action system incorporates some of the rifle's most impressive features. We think it's the most advanced rifle action available, and it's been proven during 2 years of "real-world" testing.

- Full aluminum-alloy receiver.
- 3-lug concave nonsymmetrical bolt head allows self-centering.
- 70-degree bolt lift by design
- Removable bolt head allows adaptation of different calibers, changes between Standard (.473), Magnum (.532), and 338 (.585) case head diameters.
- "Duo" Firing Pin Springs cancel twisting and vibration.
- Positive bolt stop that does not contact locking lugs of the bolt.
- Bolt body runs inside butt extension, shooter's head stays in place.

## STABLE BOLT TECHNOLOGY

The patented **Stable Bolt Technology**, in addition to being geometrically correct, allows the 3 nonsymmetrical bolt lugs to be locked in a centered static position eliminating the radial pressures exerted by the firing pin and spring. This off-axis spring force (as found in Remington-style actions) moves the rear of the bolt to an off-centered position, which negatively effects accuracy. The Adaptive Target Rifle bolt has additional incorporated design features to enhance centering:

- Spring-loaded rear bushing that supports rear of bolt during actuation and pressurizes locking lugs when in battery.
- Use of a flanged cocking piece interfacing with a heat-treated stainless-steel trigger hanger allowing below flush function. The flanges eliminate radial movement of the firing pin.
- Firing pin shank with support rear of the cocking piece.
- Square sear engagement of the firing pin, which mates to ...
- The square sear on the trigger. "Square-to-square" mating surfaces eliminate angular firing pin movement.



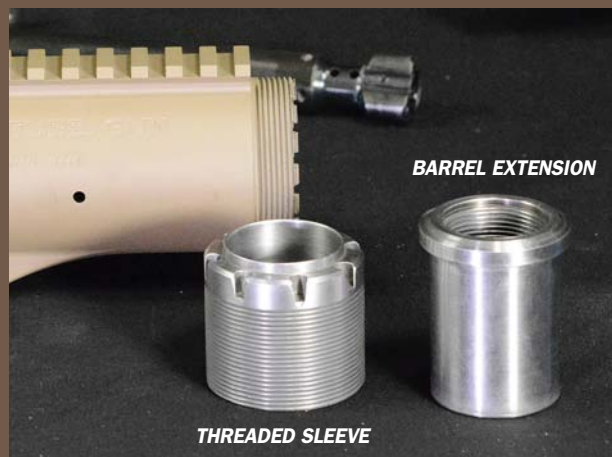
These rear-centering features combine with the aforementioned bolt lugs to allow the bolt to remain static when fired.

In other rifle designs, the ejector is notorious for bearing against one edge of the chambered cartridge, pushing it out of alignment. The Adaptive Target Rifle incorporates TWO small-diameter AR-15 ejector plungers with opposing orientations that help evenly align the cartridge case when chambered as well as retarding pressure smears of the case head.

## BARREL SYSTEM

The Adaptive Target Rifle incorporates a **Barrel-Extension Design** in place of a conventional "threaded-receiver" type installation. That means the barrel extension is threaded onto the barrel, and that entire assembly is then installed quite easily into the receiver using a threaded coupler. The barrel extension has the size of a conventional bolt-action receiver diameter. Coupled with the threaded receiver and coupler, the whole system is larger, stiffer, and lighter. Engineering calculations indicate 1.75X added rigidity of a Remington 700. The barrel tenon diameter is 1.125-inches x 18 TPI. This increased thread diameter provides additional chamber sidewall thickness for decreased stretching when using larger-diameter case heads.

This system affords the owner unlimited options in calibers and configurations all on the same platform: purchase barrel extensions and have your barrels custom-contoured and chambered ready to install using an AR-15 armorer wrench (included).



[CLICK HERE TO SEE THE LATEST ADAPTIVE TARGET RIFLE VIDEO](#)

[CLICK HERE TO VIEW ALL THE VIDEO LINKS FOR THE TUBB ADAPTIVE TARGET RIFLE](#)

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## MACHINED MAGAZINE SYSTEM

The Adaptive Target Rifle Magazine System is unique. The fully machined double-stack/double-feed magazine box with 2 removable inserts allows flawless feeding. Capacities for the machined magazine are 13rds/308, 10rds/284, 7rds/300WSM, and 6rds/338 Norma.

Machined magazine boxes DO NOT VARY in tolerances like their stamped counterparts. Great effort was expended in order to maintain cartridge integrity when rounds are being feed from the magazine into the chamber. In other words: this rifle will shoot as well when fed from the magazine as it will when single-loaded. Magazine length is adjustable based on the OAL of the current chambering. The user determines the appropriate magazine overall length clearance by adding or removing either one or both Delrin inserts.

## ADDITIONAL FEATURES

The patented T7T 2-stage trigger (square-sear model) is without peer comparing its adjustment range, tunability, reliability, and safety features. Adjustability ranges from ounces to pounds. It also features a length-of-pull position-adjustable trigger. Easily removable trigger housing as a complete sub-assembly. The entire fire-



control group can be removed in simple rearward motion with the removal of a single screw from the receiver. Features ambidextrous magazine release.

Folding buttstock assembly with telescoping lockup assures a rigidly-locked system when extended. The rifle can be fired in either stock position. Butt assembly slides into the back of the action to provide maximum strength. Easy one-screw removal allows compact transport. Fully-adjustable butt assembly; cheekpiece adjustable for height and *XY* axis.

## MODERN COMPATIBILITY

The similarities between the "TUBBGUN" and the higher-end AR15s are by design. Both allow the user's face to be properly placed in a more natural forward position allowing for continuous bolt operation without any head movement. The Adaptive Target Rifle bolt runs "under" the shooter's face. The user never loses sight picture in order to function the rifle. Bolt actuation is fast and positive. Only one finger (with a little practice) is necessary to run the bolt at a very high rate of speed.

The similarity between these rifles means that the user can enjoy the same positions and training venue because of similar head and hand placement opportunities.



Visit [DavidTubb.com](http://DavidTubb.com) for more information



The entire rifle is anodized black, the Cerakote ceramic-based finish is then applied.

# Tubb Adaptive Target Rifle

## DETAILED SPECIFICATIONS

[revised 2-8-17]

### ALL DIMENSIONS IN INCHES

Receiver Through Hole Diameter: .750

Barrel Tenon Thread: 1-1/8 – 18

Barrel Tenon Outside Diameter: 1.400

Barrel Coupler Thread: 1-3/4 – 18 / Minor Diameter of 1.696

Receiver Forward Outside Diameter: 2.062

Handguard Nut Diameter: 2.110

Handguard Diameter: 1.980

Bolt Diameter: .746

Bottom Lug Diameter: .746

Diameter encompassing two top-lugs: .987

Diameter behind locking lugs: .590

Bolt Rear-Bushing Diameter: .873

Bolt Face Depth: .120

Bolt Face Diameter: .482 standard (.308 Win. class) / .540 short-mag (.243 WSSM class) / .585 large-mag (.338 Norma Mag. class)

Firing Pin Protrusion: .040

Firing Pin Tip Diameter: .060

Total Bolt Lift: 70 degrees

Bolt Lift to Cocked: 55 degrees

Extraction Cam Ratio: .080 over 15 degrees

Total Firing Pin Travel at Cocked: .250

DUO Firing Pin Spring Compression at Cocked: 1.217 each spring, (2.434 total)

Ejector Port Length: 3.340

Total Linear Bolt Travel: 4.897

Feed Ramp Angle from Horizontal: 30 degrees

Bolt Assembly Length: 7.863

Bolt Head Material: 4340 Alloy Steel, heat treated to 40 RC then nitrided

Receiver Material: 7075 – T6 Aluminum Alloy, Type-3 Hard Anodized

Remaining Aluminum Component Material: 6061-T6, Type-2 Hard Anodized

Final Finish: Bead-blast and Cerakote

Bolt Body and Bushing Material: 416 Stainless Steel, heat treated to 38 RC

Barrel Extension Material: 17-4 PH Stainless Steel, age-heat treated to 42 RC

Firing Pin Tip Material: 17-4 PH Stainless Steel, age-heat treated to 42 RC

Cocking Piece Material: 4340 Alloy Steel, heat treated to 40 RC

Extractor Material: 4340 Alloy Steel, heat treated to 40 RC

Trigger Hanger Material: 416 Stainless Steel, age-heat treated to 38 RC

Barrel Coupler Material: 416 Stainless Steel, heat treated to 38 RC

Rifle Weight Without Barrel Attached: 7.2 lbs (no sling studs or hand stop installed)



“TUBB GUN”



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