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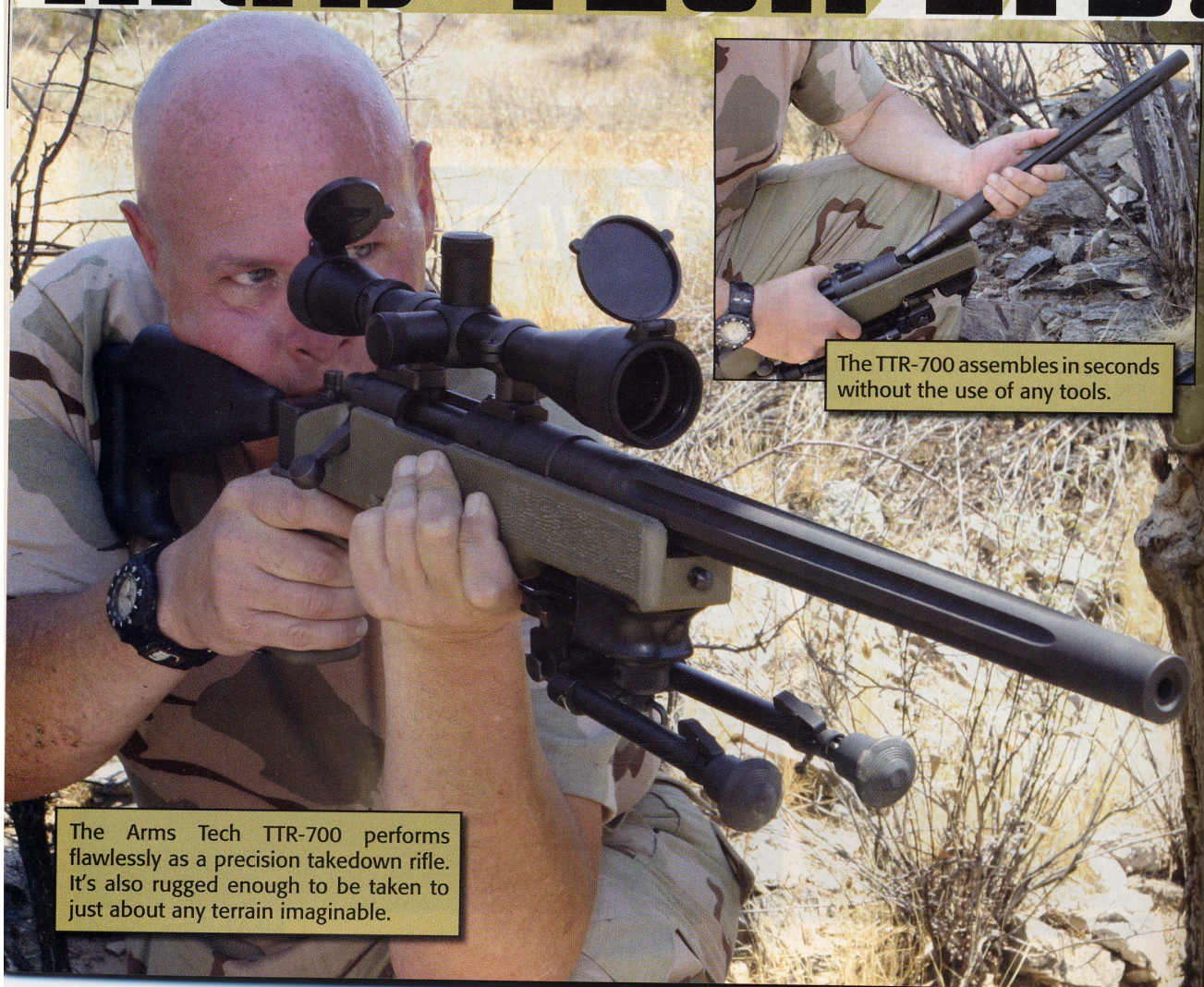


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The complete
TTR-700 system
packed in a
laptop style case.

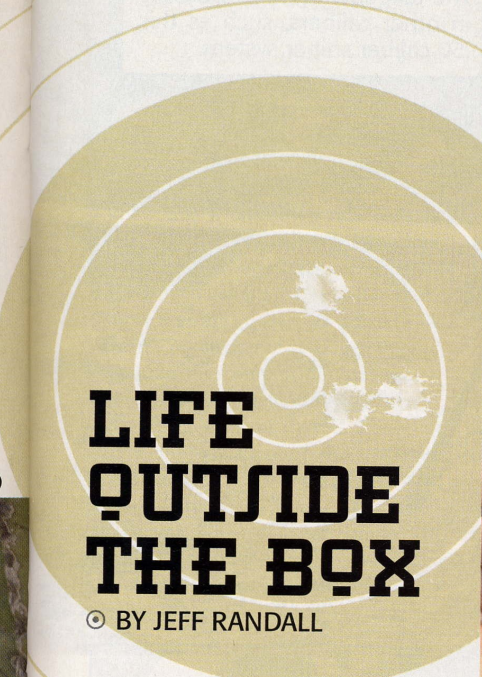


ARMS TECH LTD.



The TTR-700 assembles in seconds
without the use of any tools.

The Arms Tech TTR-700 performs
flawlessly as a precision takedown rifle.
It's also rugged enough to be taken to
just about any terrain imaginable.



LIFE OUTSIDE THE BOX


© BY JEFF RANDALL

**I've always liked
quiet companies.**

Those that seem to stay ahead of the technology curve without much fanfare or chest beating. The problem with such companies is you don't know they exist until some dumb writer like me stumbles across them. Several years ago a friend told me about an Arizona-based company called Arms Tech, Ltd. (AT) that makes precision, high-tech "reverse first-aid" tools. Of course, in this industry you're always hearing hype about the latest, greatest designs, so I didn't pay much attention to this company until I began researching the equipment being used in the war on terror.

Although a lot of folks may not want to hear this, many of the weapon manufacturers in the U.S. don't think "outside the box." Their products are designed to fit a wide array of applications and many times "idiot-proofed" with additional weight and gadgetry that inevitably slows the process of waging war.

www.swatmag.com



The Arms Tech match-grade AR variant is easily capable of sub-MOA accuracy. Equipped with the AT quick-detach suppressor the noise level with fully loaded 5.56 ammo is not much more than a loud pellet rifle.



The takedown rifle is available in other calibers, such as this .50 caliber sniper system.

While current designs may be the best fit in the overall process, sometimes mission specific equipment is required. Let's not kid ourselves; in today's war on terror the operator's mission is to kill the bad guy. When we're talking about special teams on the trail of terrorists, political correctness or looking cool doesn't enter into the equation. The quicker and more efficiently the operator can accomplish his mission while maintaining his own safety, the better.

This is where shops like Arms Tech come into play. While the civilian market may not see too many of these devices in their local gun store, these "special projects" are out there and being used all over the world to kill bad guys.

RAISING THE MANUFACTURING BAR

Arms Tech was established in 1987 after much discussion and a thorough study of then-recent U.S. military history. Anticipating the shift in military strategy to special operations, Arms Tech began to design and de-

velop products for future conflicts.

The company chose a business model called 3rd Wave Manufacturing. This business model is information intensive focusing on design, quality control, testing and marketing. This structure creates a flexibility that keeps the company responsive to customers' urgent requirements. Arms Tech's philosophy can be broken down into three components: 1) the constant study of special ops history, 2) careful examination of after-action reports, and 3) listening to the operators in the field and acting on the feedback. The consistent theme at Arms Tech is "make it better, lighter, stronger and more reliable."

While Arms Tech manufactures a wide range of products such as miniature Claymore mines, suppressors, covert pen guns, and digital timer-fired devices, their real ingenuity and precision comes through in two weapons: The M4-style battle rifle and the takedown combat sniper system.

Arms Tech has patented a unique gas buffering system for the Stoner-designed,

AR-style rifles which greatly increases the function and life expectancy of the rifle. By buffering the gas flow, the bolt is no longer operating under high pressure. This simple but effective change almost completely eliminates common malfunctions in the M4 (such as broken extractors) and extends the period of operation between cleanings. It also decreases the cyclic rate of full-auto fire which increases trigger and weapon control.

Arms Tech also manufactures complete semiauto and full-auto AR-style rifles in various configurations and barrel lengths, including match-grade rifles capable of sub-MOA performance. Couple any of these variants with the Arms Tech quick-connect suppressor and you have a weapon that is extremely quiet, accurate and controllable. During my live-fire testing of one of their full-auto "shorty" carbines, I easily engaged targets out to 100 yards with three and four round bursts. The AT suppressor is simply amazing. Shooting full-boat 5.56 ammo, the noise level was much less than a standard .22 LR round. In fact, the

best way to describe it would be a loud pellet gun.

LONG RANGE ENGAGEMENT IN A SMALL PACKAGE

The next weapon that sets Arms Tech apart from the rest of the pack is the TTR-700 takedown rifle chambered in 7.62 NATO (.308 Winchester). After initially hearing about the accuracy of this rifle I was skeptical. Having come from a precision manufacturing background I knew that a takedown rifle with repeatable accuracy was hard to produce. Sure, most manufacturers can get close but when you're talking 1/2 MOA that's almost unheard of, even in a fixed rifle. Add the possibility of stacking tolerances within the components and you've got a real nightmare to manufacture.

We've all seen the movies where the sniper climbs to a rooftop and assembles his takedown rifle, takes a precise shot, then quietly walks away. Well, as we all know it's just not that simple. The reality, more often than not, has been that these weapons are generally highly fragile and rather inaccurate over the

long term. In any event, they have always been expensive due to the inherent complexities involved in designing and manufacturing, and the relatively low numbers produced. Nonetheless, the market requirement for a precision rifle capable of being quickly assembled and then disassembled into a compact package continues unabated to this day.

In practical terms, the need for a reliable takedown rifle is readily apparent for military parachutists, special operators, SWAT teams, aircrew members, pilots and even deep woods backpackers. For SOF and SWAT personnel specifically, the desirability of a highly effective sniper system that can be discretely carried in what appears to be a normal laptop case (or optional parachute bag) is self-evident, especially since it can be deployed in less than a minute after opening the case.

The TTR-700 is built around the famous Remington 700 action. The action has been extensively modified and blueprinted for reliability and accuracy. The tolerances on the proprietary barrel interface system are such that the

rifle is absolutely guaranteed to return to zero after removing and reinstalling the barrel—an operation that is done entirely by hand without the aid of any tools whatsoever. The barrel installation and removal process takes only as long as it takes the shooter to unscrew the unit from the host weapon. The special threading ensures that the barrel will not unscrew inadvertently under combat conditions. The weapon also comes standard with a threaded barrel and false muzzle protector to facilitate the employment of the optional MD-30S sound and flash suppressor.

This weapon system typifies living outside the box in a significant way. While a takedown rifle that really performs is amazing in its own right, the people at Arms Tech have gone outside the box by broadening the concept to make these weapons mission configurable. For example, if you are in a city the 16.2-inch barrel is more than adequate for the ranges encountered. You can take the same weapon to the hill country and engage at far longer ranges by changing to a 24-inch barrel. Sure, you have to

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know the differences in point of aim for your scope, but that's not a problem. I am told that it's even possible to change calibers, so at last the operator can have it his way—just like going to Burger King.

FIELD PERFORMANCE

The rifle I tested was fresh out of the manufacturing stage so it had never been zeroed. It took me about forty-five seconds to assemble the rifle. I was shooting from a bench using only the bipod for a rest. The ammo used was Black Hills 168-grain Match. After five rounds I had the TTR shooting one ragged hole at fifty yards. It was time to unscrew the barrel, remove the scope and put it all back together.

Although the barrel was a little warm to the touch with bare hands it was still easy to break down. After reassembling the rifle, I went back to the fifty-yard setup and shot exactly the same group. I moved the target to 100 yards and fired one round to find the elevation. The round was about two inches high. I moved to a six o'clock sight picture on a fresh target and fired three shots that measured .800 inches. The rifle can

definitely outshoot my capabilities as a marksman.

After taking a break in the 113 degree desert temperature I broke the rifle down again, reassembled it and shot a group that was just a hair over one inch at 100 yards. Needless to say I walked away a believer in the claims made by Arms Tech. As a side note, all rifles manufactured by Arms Tech must shoot ½-inch or smaller groups at 100 yards before they are allowed to leave the factory. There's no doubt in my mind that the rifle I was shooting would do that in a full rest and with a better shooter.

With a weapon such as this, a sniper could deploy just about anywhere in the world wearing common street clothes and carrying nothing but a laptop case. Once he arrived at his target's location he could position himself, take the shot against Jihad Johnny, and simply be one of the crowd as he makes his escape—just like in the movies. The weapon would also be perfect for Personal Security Detail or Advance Teams who need to complete their mission without looking too "tactical." Given that the weapon is completely legal for civilian purchase (non-NFA without suppressor) I could

also see the use for hunters who like to travel light and accurate.

SPECS

Standard specs on the rifle without suppressor are:

- Overall length (assembled with 16-inch barrel): 36 inches
 - Length (disassembled): 15.5 inches
 - Weight (empty) with scope and mount: 10.4 pounds
 - Barrel: 16.2 Schneider match-grade, hybrid 416 stainless steel with six grooves, 1:12 right-hand twist
 - Furniture: custom fitted Choate folding sniper stock
 - Optics: Leupold VARI-X-IIC, 3-9X40mm variable-power Tactical Scope with MIL DOT reticule, Leupold rings and QD Mounts
 - Finish: Black oxide per MIL-C-1394-C or phosphate (Parkerized) per DOD-P-16232F. A high humidity "surf zone" non-corrosive finish is also available
- The Standard Arms Tech TTR-700 package includes:
- Complete 7.62mm NATO caliber rifle

ARMS TECH, LTD.

RIFLE DESIGN SHOULD BE LED BY THOSE WHO FIGHT WITH THEM



Designed by SWAT Officers

SLR15

Commander
model shown



SLR15.com

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left: An Arms Tech Ruger 10-22 "shorty" with attached AT suppressor.

below: Ruger MK II pistol with quick-detach AT suppressor.



as described above (other calibers available)

- Scope, mounts, rings, Butler Creek caps with Kill Flash
- MIL-DOT Master analog computer with instructions
- Two clear twenty-round ammo boxes
- X-1R gun grease and cleaner
- Two-piece brass cleaning rod
- Soft black Cordura carry case

Arms Tech definitely lives life outside the box when it comes to high-tech weaponry. Whether you're a civilian looking for a high quality rifle or a team that requires special mission specific requirements, this company goes above and beyond at supplying those needs. ☉

SOURCE:

Arms Tech, Ltd.
Dept. S.W.A.T.
5133 N. Central Ave., Suite 200
Phoenix, AZ 85012
(602) 272-9045
www.armstechltd.com

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