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<H5 class=magcopy>While the ultra-modern, low-cost Remington 710's performance is remarkable, the
way it's made is revolutionary.</H5><SPAN class=magcopy>
<P>By <B>Michael E. Bussard</B>, <I><A href="http://www.mynra.com/">American Rifleman</A></I>
Technical Editor</P>
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<P><IMG src="http://www.remington.com/images/mag/drop_M.gif" align=left border=0>any hunters and
shooters must pursue their sports on a tight budget. For those sportsmen and women, high perceived
value is the single most important aspect in purchasing a hunting rifle. They want the dependability and
performance of a new rifle and scope, but simply cannot afford to spend $500 or more.</P>
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<P>Recognizing this, Remington recently made a corporate commitment to lower the cost of hunting
rifles with a new line and to lead the industry with innovative products. One of the first fruits of its efforts
is the new Remington Model 710, bolt-action, center-fire hunting rifle with a manufacturer's suggested
retail price of just $425including a 3-9X scope and mounts! Yet, despite its attractively low price,
Remington's new rifle combines value with the reliability and durability for which Remington rifles are
famous.</P>
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<TD><SPAN class=caption>One way costs of the new Remington Model 710 are reduced is through its
manufacture with 22 parts instead of the usual 46 required in the Model 700. Other cost reductions are
made by using some existing Model 700 trigger parts and sling swivel studs.<BR><A
href="http://www.remington.com/magazine/preview/rc009004_pic5.asp"><B>Click the image to
enlarge.</B></A></SPAN></TD></TR></TBODY></TABLE>
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<P>To achieve the targeted breakthrough in reducing cost, Remington gun designers began with a clean
sheet of paper, which allowed them to incorporate an eclectic blend of fresh, new ideas and proven
features into the rifle. From the beginning, a key consideration was to take maximum advantage of
modern materials and advanced production methods to reduce labor and machine costs to a minimum
while maintaining safety and full performance. For example, the Model 710 contains many precision-
molded, high-strength polymer parts, such as the stock, that require little or no fitting and finishing. Metal
parts are matte-finished and there are no metal sights.</P>
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<P>Costs of the rifle were also lowered in two other ways. First, the number of parts in the 710 was kept
to just 22, as compared to 46 in the Model 700. Second, existing parts were used where possible. For
example, some trigger components and sling swivel studs from the Model 700 are used on the Model
710.</P>
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<P>The Model 710 serves as an excellent example of how industry can utilize modern materials and
technology to the fullest to bring attractive new products to market at competitive prices. Here's how
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Remington did it.</P>

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<TD><IMG alt="Model 710 Bolt, Trigger Assembly & Bolt Guidance System"

src="http://www.remington.com/images/mag/710_4.jpg" width=200 border=0></TD></TR>

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<TD>The fire control unit and molded polymer insert slide into the rear of the 710's mild-steel tubular receiver.
Click the image to enlarge.</TD></TR></TBODY></TABLE>

<P>Receiver</P>

<P>On a typical bolt-action rifle, including Remington's own Model 700, the heat-treated receiver is a stressed component, meaning that the bolt locks to the receiver and transfers firing stresses to that part. On the 710's receiver, the bolt locks directly to the barrel, and the receiver is made of relatively inexpensive, mild steel tubing without the locking recesses.</P>

<P>The Model 710's cylindrical steel receiver is approximately 6.375" in length with 0.190"-thick sidewalls and a 1.40" outside diameter making it a long action suitable for cartridges in the .270 Win. and .30-06 Sprg. class. With a 3.75"-length magazine well and a 3.83"-long ejection port, the receiver will accommodate factory ammunition and many handloads with long-seated bullets. A molded nylon bolt guide insert for the receiver, manufactured with Teflon and silicone additives, eliminates the need for extensive machining. It may also be removed for cleaning or maintenance. </P>

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<TD><IMG alt="Model 710 Bolt Face" src="http://www.remington.com/images/mag/710_9.jpg" width=200

border=0></TD></TR>

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<TD>The Model 710's bolt face features an internal ejector and Remington-type internal extractor.
Click the image to enlarge.</TD></TR></TBODY></TABLE>

<P>Approximately 5.08" of the insert fits inside the receiver with an additional 1.62" tail protruding out the bottom of the rear receiver ring. The fire control unit and rear stock screw attach to the tail piece, and a single screw on the receiver fitting through a hole in a steel bracket assures the insert remains in place. Raceways for the bolt locking lugs and openings for the ejection port and magazine well are molded into the insert. The exterior of the receiver has a glass-bead-blasted, matte surface with a black finish. There is no gas relief hole in the receiver of the 710 to provide a route for high pressure gases to escape in the unlikely event of a case head failure.</P>

<P>Bolt</P>

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<TD><IMG alt="Model 710 Bolt Exploded View" src="http://www.remington.com/images/mag/710_8.jpg" width=200

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<TD>The bolt has four parts--the head, retaining pin, cast body and firing pin assembly with composite shroud. Only the bolt head is made of heat-treated, high-strength steel.
Click the

image to enlarge.</TD></TR></TBODY></TABLE>

<P>The bolt is a four-piece assembly with a body, separate bolt head, firing pin assembly and bolt head retaining pin. Made of heat-treated, high-strength steel, the 1.28" long bolt head has three locking lugs approximately 0.370" wide and 0.300" long spaced evenly around its circumference that lock into

recesses machined into the rear of the barrel. Each locking lug is heavily beveled on its right rear corner to ease closing forces. The bolt head is retained in the cast, tubular steel bolt body by a single large retaining pin that engages a hole in the bolt head extension. The cast bolt handle is silver-soldered in position. On the bolt face are an internal ejector and Remington-type, internal extractor. The steel firing pin assembly features a molded polymer shroud on the rear end. The surface finish on the bolt body is "as cast" while the bolt head is blued. In operation, the bolt locks and unlocks with a short, 60 degree lift. We found bolt glide surprisingly smooth, no doubt because of the Teflon and silicone fortified liner in the receiver. As with the receiver, no gas relief holes are present in the bolt. A pivoting, external bolt release lever is located on the left rear of the receiver. Because it is held in place by the stock, it can fall out when the barreled action has been removed. Also, if it is not pushed forward when the rifle is assembled, the bolt could be inadvertently withdrawn from the receiver. </P>

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<TD>At the front of the receiver the bolt locks into a press-fit barrel extension (arrow A) with three equally spaced locking lugs. The barrel features a slot (arrow B) that mates with a recoil lug imbedded in the stock.
Click the image to enlarge.</TD></TR></TBODY></TABLE>

<P>Barrel</P>

<P>A unique feature is that the 22" carbon steel barrel is hydraulically press-fitted into the front receiver ring and cannot be removed. Beginning from an initial diameter of 1.225" at the breech end, the barrel tapers with a sporting contour to 0.660" at the muzzle, which has a recessed crown. A 0.215" square notch cut into the bottom of the barrel near the breech mates with an aluminum recoil lug embedded in the stock. Button rifled with six conventional grooves and a right-hand rifling twist of 1:10", barrels have a glass-beaded, matte black finish matching that on the receiver. Initially, 710s will be offered only in .270 Win. or .30-'06 Sprg.</P>

<P>Remington fans may get a shock when they see the markings on Model 710 rifle barrels. They read: "Remington Arms Company, Inc. *****Mayfield, KY*****" That's correct, 710s are manufactured in Mayfield, Ky., and not in Illion, N.Y., as are Model 700s. Remington already makes the Model 597 rimfire rifles in the Mayfield plant.</P>

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<TD>On the Model 710's bolt shroud is Remington's new Integrated Security System. Operated by a J-profile key, it prevents the bolt from closing when engaged.
Click the image to enlarge.</TD></TR></TBODY></TABLE>

<P>Fire Control</P>

<P>While the fire control (trigger) system of the 710 uses some internal components from the familiar Model 700's unit, the two are not identical and are not interchangeable. The 710's single-stage assembly employs molded, black polymer side panels with metal internal parts and is secured to the molded receiver insert with two metal pins. The metal trigger is grooved to form five ribs on the front surface and blued to match the receiver finish. Although the fire control assembly is adjustable, Remington strongly advises against users attempting adjustments leave that to factory-trained specialists. On our test rifle, the factory trigger was notably crisp with a consistent 4 3/4 lbs. let-off, very little take-up and minimal overtravel. A two-position safety is mounted on the right side of the fire control unit with a sliding lever that fits through a notch in the stock. When the safety button is pressed fully rearward, the trigger is disabled and the bolt may be opened to allow unloading.</P>

<P>In addition to the fire control safety, the Model 710 comes equipped with Remington's new Integrated Security System (ISS). Located on the left side of the bolt shroud is a small, unobtrusive button that can be rotated by means of a special, J-profile, metal key on a small green plastic handle. When the key is inserted in the button and rotated, the button exposes a white dot or red dot. The former indicates the bolt will not close while the latter indicates the bolt can be closed for firing. When activated, the button simply rotates a metal pin locking the cocking piece so the bolt cannot be closed.</P>

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<TD>Molded of gray, fiberglass-reinforced polymer with a non-slip, pebbled finish, the one-piece stock of the 710 requires no inletting, fitting or finishing. The aluminum recoil lug (arrow) engages a slot cut in the bottom of the barrel.
Click the image to

enlarge.</TD></TR></TBODY></TABLE>

<P>Stock</P>

<P>Molded of gray, fiberglass-reinforced polymer, the stock combines strength, stability and light weight with ease of manufacture and low cost. The pebbled surface finish of the one-piece stock is claimed to never crack, chip or peel. It is of conventional styling with no checkering, a fluted pistol grip, integral trigger guard and cheek piece for right-handed shooters. Steel quick-detachable sling swivel studs, a black plastic pistol grip cap and a soft black rubber buttpad are standard equipment.</P>

<P>As it comes from the mold, the Model 710 stock has all the proper cutouts for bedding the receiver without the need for machining or hand fitting. The only components that must be installed are the recoil lug and the magazine release lever. The receiver is secured to the stock by three socket-head screws two large screws in front of the magazine well and a smaller one behind the trigger guard. When the barreled action is properly secured in the stock, the barrel is not free-floated.</P>

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<TD>A molded polymer receiver insert features raceways for the bolt locking lugs and holds the fire control unit. Openings on its side and bottom are for the ejection port and magazine well.
Click the image to enlarge.</TD></TR></TBODY></TABLE>

<P>Magazine</P>

<P>The Model 710 uses a detachable, four-round, staggered-column box magazine. Made with a blued steel body, it features a follower and floorplate molded of black polymer. When the magazine is positioned properly in the well, the floorplate is flush with the lower surface of the stock. For this reason, the stock is relieved on both ends of the magazine well to allow finger purchase on the floorplate to aid in removal. The release lever is in front of the well as the magazine fits only in the stock there is no metal liner in the magazine well or other attachment to the receiver.</P>

<P>We found the magazine provided faultless feeding and was easy to load. Cartridges are inserted easily from the front (not the top) position. Another feature we liked was the ability to quickly and easily unload the rifle by removing the magazine (and removing the cartridge from the chamber if any). We do have one complaint, however the magazine may be inserted backward.</P>

<P>Sights</P>

<P>Our test rifle came factory-equipped with a one-piece, aluminum alloy scope base, aluminum alloy 1" scope rings and a true-sighted Bushnell 3-9X variable Sharpshooter rifle scope with 40 mm objective lens and a Multi-X reticle. Built on an hard-anodized, 1"-diameter aluminum tube, the scope features fully coated lenses and 1/4-minute click adjustments for windage and elevation. For those who prefer their own scope, Remington may in the future offer a Model 710 without the scope.</P>

<TABLE cellSpacing=0 cellPadding=0 width=200 align=right border=0>
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 <TD>Remington's new Model 710 bolt-action hunting rifle combines modern materials and state-of-the-art manufacturing methods with innovative design to dramatically reduce costs. Suggested manufacturer's retail price including a Bushnell 3-9X Sharpshooter scope is just \$425!
Click the image to enlarge.</TD></TR></TBODY></TABLE>
 <P>Performance</P>
 <P>We approached the regimen for the .30-'06 Springfield pre-production 710 we received for test and evaluation with somewhat more than the usual interest. Such a number of new and unique features in a single product has not been seen for quite a while. Remington obviously was taking a big chance, but would it succeed? We think it did.</P>
 <P>During our tests, the Model 710 proved safe and reliable in firing several hundred rounds of factory ammunition of various brands and bullet weights while delivering accuracy acceptable for most types of hunting. Balance and handling were judged good and very good, respectively. Feeding, chambering, extraction and ejection proved flawless and operation of the bolt (bolt glide) felt better than many rifles costing twice the price.</P>
 <P>We can recommend the rifle/scope package to prospective, budget-minded buyers. In addition, the very competitive price of Remington's Model 710 rifle/scope package will enable many novice, senior and youthful hunters to enjoy our sport by offering them products they can trust and display with pride of ownership.</P>
 <P>While hunting rifles running \$700 to \$1,000 are nice, a market reality check shows that not all shooters can afford them. Remington is to be congratulated for recognizing that and making a corporate commitment to meet this demand with an innovative new product. In the process, it has set a significant standard in affordability for the future of bolt-action rifles.</P>
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 <TR>
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 <TR>
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 <TD width="100%" bgColor=#ffffff>OVERALL LENGTH: 42"</TD></TR>
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 <TD width="100%" bgColor=#efefe7>BARREL: 22" carbon steel, press-fit to receiver</TD></TR>
 <TR>
 <TD width="100%" bgColor=#ffffff>RIFLING: conventional, six-groove, 1:10" RH twist</TD></TR>
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 <TD width="100%" bgColor=#efefe7>WEIGHT: 8 lbs., 4 1/2 ozs. (with scope)</TD></TR>
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<TD width="100%" bgColor=#efefe7>MAGAZINE: detachable,
four-round, staggered-column</TD></TR>
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lbs. pull</TD></TR>
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Bushnell 3-9X Sharpshooter scope, scope rings, scope base, lens covers</TD></TR>
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<TD width="100%" bgColor=#efefe7>SUGGESTED RETAIL
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\$425</TD></TR></TBODY></TABLE></DIV></TD></TR></TBODY></TABLE></DIV>
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