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Remington Sniper Rifles<span
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THE M24 SNIPER WEAPONS
SYSTEM (SWS)

by Joe Poyer and
Roy Marcot

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<SPAN class="magcopy">
<SPAN class="boldout">"</SPAN></SPAN>The
probability of One Round - One Kill had been proven in the jungles of an alien
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<SPAN class="magcopy">
<IMG src="http://www.remingtonle.com/images/letters/T.gif" align="left" border="0" width="29"
height="36"></SPAN>The successful employment of Marine Scout-Snipers and U.S.
Army Sniper teams in Vietnam taught a valuable lesson to
those responsible for Americas tactical warfare doctrine
in the 1970s, 80s and 90s. The probability of One
Round - One Kill had been proven in the jungles of an
alien country half a world away. Sniper training and
employment was here to stay, with the establishment of the
U.S. Army Sniper School at Fort Benning, Georgia.Equipping the modern day military
sniper with the best
possible weapon is as important as training the soldier
who pulls the trigger. The sniper rifle used by the U.S.
Army in Vietnam was the M21, a match-grade M14 that was
originally equipped with a Redfield 3X-9X ART scope. The
Marines choice was the venerable M40, a Remington M700

sniper rifle also fitted with a Redfield scope. Both sniper weapons performed well in the late 1960s, but by the late 70s, both the Army and Marine Corps needed a better weapon to engage targets out to and beyond 1,000 meters. In 1977, the Army began comparative testing at the Aberdeen Proving Ground and at Fort Benning of a number of precision rifles, including the French FRF1, the AR10, the Marine Corps M40A1, the Winchester 70 Match, the Canadians Parker-Hale 1200TX, and a heavy-barrel M14.

These rifles were tested against the Army M21, which was used as the control weapon. Despite extensive trials, the U.S. Army decided that the M21 was still adequate to the task. By the early-1980s, the Army began taking a second look at the drawbacks of the M21, especially its inability to maintain a zero when dropped during airborne operations. The original M21s were wearing out, and suitable replacement parts were hard to come by. U.S. Army Training Circular TC 23-14 stated:
<blockquote>

During operation Urgent Fury in 1983, U.S. Army Rangers employed snipers in Grenada. Target reductions were successful against enemy mortar positions at ranges up to 800 meters. The reduction of fires from these positions was critical to the missions success, and illustrates the continuing value of sniper employment.
</blockquote>
The necessity of fielding a state-of-the-art sniper rifle came to light in Grenada and in other police actions of the 1980s. The U.S. Army Rangers echoed the same need. Soon the chief military threat to NATO would no longer lay across the North European Plain with rolling hills and thick forests that shortened sniper engagements to from 300 to 500 meters. Future engagements would now emanate across flat, open desert terrains of the Middle East, with potential sniper engagements exceeding 1,000 meters. The responsibility of solving this problem was given to the governments Armament Research, Development and Engineering Center (ARDEC) at Picatinny Arsenal in New Jersey. ARDEC quickly decided that it would be far too costly for the Army to develop its own sniper weapon, but should adopt a commercially available system.
The Marine Corps M40A1 was also dismissed, as the short-action of the Remington M700 would not permit insertion of a round larger than the 7.62 NATO. The pre-production chronology of events includes:
<blockquote>
 <font face="Verdana">
In March 1985, the U.S. Government issued a survey, requesting proposed specifications for a new sniper
rifle.   &n

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bsp;
    <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">An
    initial marketing investigation on a new sniper rifle
    was initiated by Remington Arms Company on April 25,

1985.              <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">A U.S.
    Government Market Investigation questionnaire was sent
    out on April 25, 1986. <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">An
    official Request For Proposal (DAAA21-86-R-001) was
    issued on October 1, 1986.<br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">
    Remington Arms Company, Inc. submitted bid samples
    forty-five days later on November 14,

1986.              &
nbsp;       <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">
    Remingtons &quot;best &amp; final offer&quot; was submitted on May 1,

1987.              &
nbsp;   <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">The
    U.S. Government contract was awarded to Remington Arms
    Company on July 22, 1987. <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">
    Developmental work in Ilion was conducted by Remington's
    R &amp; D Group. The design section was called the SWS Team,
    which eventually fabricated a total of 25 SWS systems
    for testing.<br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">Six
    Initial Production Test (I.P.T.) Guns were submitted on
    October 13th, 1987. Nineteen First Article Test (F.A.T.)
    Guns were submitted at the same
time.              &
nbsp;   
    <br>
    </span></font><font size="1"> </font>
    <font face="Verdana"><span style="font-size: 8pt">U.S.
    Governmental approval was given to Remingtons SWS on
    July 27, 1988.</span></font></p>
    </blockquote>
   <p><font face="Verdana"><span style="font-size: 8pt"><b>
   REMINGTON DEVELOPS THE SNIPER WEAPON SYSTEM</b> <br>
   In 1988, John Rogers, a Senior Marketing Specialist for
   Remington Arms Company, Inc., gave the following report
```

about Remingtons development of a new sniper rifle:

Remington first became interested in the sniper weapon system when we received a copy of the market investigation in April 1986. Having previously supplied the M40 to the U.S. Marine Corps, we felt we were in a good position to respond to this requirement. Using the market investigation questionnaire as a guideline, Remington formed a SWS Team and came up with a Plan of Action. The principle designer at Remington was Fred E. Martin. T.C. Douglas was assigned as Superintendent of the SWS Project Team, which eventually consisted of fourteen Remington employees.
The team defined seven major items for consideration: the rifle action; the stock; the scope; a carrying case for the system; iron sights; ammunition; and a potential retrofit to .300 Win Mag. The caliber retrofit requirement and the need for accuracy led us to a long-action bolt gun. We felt this gun should have a synthetic stock, preferably made of Kevlar. This was based on Remingtons experience with our sporting line of rifles which were equipped with either fiberglass or Kevlar type stocks. We investigated and tested several major manufacturers stocks, and finally selected one of Kevlar-graphite construction with an aluminum bedding block and adjustable butt-plate. This decision was based on ruggedness and accuracy performance.

Several rifle scopes of variable power and fixed power were considered and tested. After discussions with people familiar with sniper applications and knowledge of the scope on the M40A1, Remington settled on a fixed power scope in the 10X range with an accompanying carrying case. The iron sight selection was easier, as the number of competitive sights offered is limited and production is constrained by the size of the sight company.

Ammunition was a major hurdle to overcome, as M118 (Match Grade 7.62 NATO) was not available for private consumption. Remington had a distinct advantage, as we manufacture both guns and ammunition, and we enlisted the resources of our experts to provide us with acceptable ammunition for testing.
The first carrying case we selected proved inadequate. We did not find this out until the eleventh hour, due to our misinterpretation as to what was really required. This almost proved to be fatal, but was finally resolved at a later date to everyones satisfaction through technical discussions.
Now that we were reasonably comfortable with our component selections, we built and tested a prototype sniper weapon

system for design conformation. At this point, we reached another major hurdle. The ammunition would not give us acceptable accuracy. We then tested barrels of various configurations until we arrived at a rifling design and twist that would stabilize the 173 grain bullet at all ranges. With this problem behind us, we built and tested three performance models. Decision time was upon us. Do we continue or stop?
You have to remember that Remington has not actively participated in government contracts of this scale since World War II.   All of the people that participated in that effort had long since retired. All of us that participated in the SWS effort were neophytes   But we learned a lot. We spent far more money up front than we originally anticipated. Just to give an example, when we were conducting our trigger pull tests, we found that the equipment that is generally accepted today was not adequate. To accurately measure trigger pull and trigger pull retention, we had to design and build a special machine at a cost of $35,000. We now have one of the most sophisticated machines available to accomplish this task and accurately measure trigger pull withing 1/10th of 1 ounce.
A pre-solicitation conference was held at Picatinny Arsenal on September 8, 1986. Remington attended, along with a host of other delegates from various companies -- both foreign and domestic. We were a bit dismayed at the formidable competition represented, and knew we faced an uphill battle. At the conference we all received a draft purchase description which detailed the Army's requirements for a Sniper Weapon System. At this point we knew that, except for a few minor modifications needed, we were on the right track.
Upon receipt of the solicitation, we expanded the SWS Team to include members of Remingtons process and industrial engineering departments. Up to now, all work on the SWS had been accomplished by our R & D group and Marketing. One thing we grossly underestimated was the magnitude of preparing a proposal along with building and testing five bid samples and compiling the necessary data. Our proposal consisted of seven sections:
<blockquote>

1.   Executive Summary
2.   Technical Data
3.   Contractor Logistical Support
4.   Cost Proposal
5.   Subcontractor Support
6.   Required Government Documentation
7.   Exceptions to RFP
</blockquote>
An extensive amount of testing was required to generate the

data necessary to support our Technical Data section. For example, one gun was shot 5,000 rounds to support the accuracy requirement. We were pleasantly surprised to find our gun far exceeded the government requirement and showed no degradation of accuracy over 5,000 rounds.
The compiling of the data and preparation of our proposal was momentous. Many of us worked 12 to 14 hours per day, including Saturdays and Sundays. One research engineer actually ate and slept at the plant in his efforts to compile the necessary technical data. The proposal was hand delivered on time, a mere three hours before the deadline. After submission of our proposal, we entered into negotiations first on the SWS and then on the Basic Ordering Agreement which would support the SWS. When the negotiations were concluded, we were asked to submit our Best and Final Offer. This was accomplished on May 1, 1987. The period of time between submission of Best and Final and Contract Award was very tense for the SWS Team. Negotiations were concluded and all contact with the government had been terminated. The only thing we could do was sit back and relax and assure ourselves that we had submitted the finest system possible. We knew the government was testing our bid samples along with those of our competition. However, there was no way to find out how we were fairing. Finally, we were notified of the contract award. Everyone at Remington was jubilant. A tremendous amount of pride was generated by everyone at our Ilion plant over the SWS.
They all looked at it as the state of the art in sniper systems, and the finest available in the world. We then set about the task of manufacturing twenty-five systems for First Article Testing and Initial Production Testing. This was accomplished on time on October 13, 1987. Extensive testing then began both at Army locations and Remington. This included:
<blockquote>

Endurance Accuracy
Function

Nuclear Biological and Chemical (NBC)

Optics
Ruggedness, and others too numerous to mention.
</blockquote>
All of this was to assure that the Army got what they paid for. First Article took much longer than originally anticipated and we feel that like us, in the preparation of our proposal, the Army did not realize the magnitude of the required testing. First Article Approval was granted on July 27, 1988. By working together as a team, the Army and Remington had successfully demonstrated that a Sniper. Weapon System could be fielded using the NDI principle

without compromising the required

specifications.

We have learned our strengths... and we have corrected any
and all weaknesses. This, of course, will be reflected in
the quality of our commercial products, as well. We feel,
however, that one of the most important benefits of
participating in the SWS project was the pride of
workmanship of our people. Through a team effort, and
full utilization of our resources, we are able to supply
the finest sniper weapon system available to the U.S.

Army.

REMINGTONS SWS CONTRACT
The initial contract for Sniper Weapon Systems was awarded
to Remington Arms Company, Inc. on July 22, 1987, and the
U.S. Government agreed to pay $3,980 for each SWS,
complete with the following components:
<blockquote>

7.62mm M24 Rifle

Deployment case, complete with foam inserts

Deployment Kit, consisting of spare parts

Leupold M3A telescope (a.k.a. Ultrascope), fixed mount,
extendable sun shade and dust covers (supplied by
Butler)

Redfield International front sight and Redfield Palma
Match target rear sight

Case
for day optic sight and fixed sights

Lens
cleaning
kit

Tools

Cleaning rod kit

Soft
rifle carrying
case

Sling,
small arms, M1907

Bipod
(made by
Harris)

Operators Manual - TM 9-1005-306-10
</blockquote>
As
stated in Mr. Rogers report, above, the first six Initial
Product Test rifles , and nineteen First Article Test
rifles were completed by October 13, 1987. The first SWS
prototype rifle was submitted to the government for
military trials on October 28, 1987. Government approval
was awarded Remington on July 27, 1988, and the company
delivered the first 100 SWS systems on October 25, 1988.
All of these rifles are made in Remingtons Custom Shop,
within the factory in Ilion, New York. The Evening Times,
a local Ilion-area newspaper, printed an article on the
initial delivery in its November 4, 1988
edition:

Remington Arms has delivered the first 100 of its newly
developed M24 rifles to the U.S. Army, and expects to
deliver 100 more on December 20th. The Ilion company
plans to deliver another 1,000 over the next 18 months.
The first 500 will cost the Army $4,995 each, and the next
500 will cost $3,900 each. The higher cost for the first
500 was due to the testing needed to meet the Armys
requirements, Remington officials said.

These rifles made for the U.S. Army by Remington meet or
exceed government requirements of 1.3 inches Average Mean
Radius (AMR) at 200 yards, and 1.9 inches at 300 yards,
based on five targets of ten shots each. The barrel on the
SWS rifle is 24-inches in length, has five lands &
grooves, is radially-rifled with a twist of one turn in
11.25 inches. These barrels were initially supplied by
Mike Rock of the Rock Barrel Company in Wisconsin. High
power shooters referred to these as 5R barrels, originally
designed by Boots Obermeyer, and patterned after rifling
from the Soviet AK-74 rifle. Remington now fabricates the
416-R stainless steel barrels for all SWS rifles, and
corrosion protection is provided by a Rem Tuff,
powder-coat finish applied at the factory. The barrels
are free-floated.
The

receiver on the SWS is the Remington Model 700 long-action. The short-action receiver can handle the 7.62 NATO cartridge, but the U.S. Government insisted on the long-action in anticipation of an eventual rechambering to a more powerful .300 Win Mag cartridge (or to an even more potent .338 Lapua). For added strength the receiver is fitted with a steel trigger guard and steel magazine floor plate made by Dakota Arms. The trigger mechanism is from the Remington M40X, externally adjustable for pull. The internal magazine holds five rounds with the bolt closed. The state-of-the-art ambidextrous, high-comb stock was a joint design effort by Remington designers and H-S Precision of Prescott, Arizona. Known by H-S as their Pro-Series Sniper, this stock has a palm swell on both sides of the fore-stock and is fabricated from a Kevlar-graphite-fiberglass composite using epoxy-based resins to enhance strength, durability under combat conditions, and warp-free characteristics during adverse environmental conditions (Arctic chill to desert dryness). The stock utilizes an aluminum (7075-T6) bedding block which is molded in with a polyurethane foam reinforced with fiberglass. The stock is then finished with an epoxy-based, high-temperature black coating, which is non-reflective and non-slip. An adjustable, high-strength aluminum alloy butt plate assembly is fitted to the composite stock. The length of pull can be adjusted from 12 to 14 inches to fit the individual snipers physique.
The precision ten-power telescope is the Leupold-Stevens Ultra M-3A with Mil dot system for range estimation. It is nitrogen filled and was designed for quick ranging on target, as anticipated for sniper ops. The scope has a three-quarter-minute Mil Dot reticle pattern, to assist in target acquisition and ranging. It features an elevation dial with one-minute click resolution that permits adjustments in elevation from 100 to 1,000 yards within a single revolution of the dial.
It has a windage adjustment of one-half-minute click resolution. A turret-mounted focus adjustment eliminates the need for a separate parallax adjustment. All lens surfaces, including a large 42mm-diameter objective lens, are multi coated for optimum brightness in the poor light environment anticipated in some sniper situations. The 30mm-diameter scope tube is machined by Leupold from a single piece of thick-wall aluminum tubing to 0.10 inches, and then coated with a black anodized matte finish. This precision scope was made to be removed and reinstalled with less than one-half MOA change in zero.
The Remington-produced Sniper Weapon System (SWS) is available only to NATO countries and official police and government agencies. Since 1987, these systems have gone to the following entities:
<blockquote>
 <font face="Verdana">

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                <span style="font-size: 8pt">The U.S. Army  - 2,510
                systems   [Contract DAAA21-87-C-
0086]              
<br>
                </span></font><font size="1"> </font>
                <font face="Verdana"><span style="font-size: 8pt">Egypt 
                - 1,000
systems              <br>
                </span></font><font size="1"> </font>
                <font face="Verdana"><span style="font-size: 8pt">
                Israel  - 96 systems shipped on September 30, 1997 and
                300 shipped on January 6, 1998.      <br>
                </span></font><font size="1"> </font>
                <font face="Verdana"><span style="font-size: 8pt">An
                undisclosed number shipped to Saudi
Arabia           <br>
                </span></font><font size="1"> </font>
                <font face="Verdana"><span style="font-size: 8pt">And an
                undisclosed number to the New York City Police
                Department.</span></font></p>
              </blockquote>
              <p><font face="Verdana"><span style="font-size: 8pt">The
              current price for a complete SWS is $6,000.  
              Remington-produced M24 rifles are currently available only
              in 7.62 NATO, although the so-called Remington SR8 sniper
              rifle was fabricated for trials for the Italian Army,
              chambered for the potent .338 Lapua round.  <br>
              <br>
              <b>REMINGTONS RE-CONDITIONING CONTRACTS</b><br>
              The U.S. Government gave Remington the first 5-year
              contract to recondition battle-worn Sniper Weapon Systems
              in August 1992, and the second 5-year contract in August
              1997.  Tommy Slagle, the manager in charge of the
              reconditioning the SWS for Remington stated that the
              systems are returned to the factory for any of the
              following reasons:</span></font></p>
              <blockquote>
                <p><font size="1"> </font><font face="Verdana">
                <span style="font-size: 8pt">Some rifle barrels having
                been fired in excess of 10,000
rounds             <br>
                </span></font><font size="1"> </font>
                <font face="Verdana"><span style="font-size: 8pt">There
                are damaged, broken or mis-aligned
components          
                <br>
                </span></font><font size="1"> </font>
                <font face="Verdana"><span style="font-size: 8pt">Some
                rifles are missing components</span></font></p>
              </blockquote>
              <table border="0" cellspacing="0" width="100%" id="AutoNumber10" cellpadding="0">
                <tr>
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                    <tr>
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<p align="center">

7.62 mm M24 SNIPER WEAPONS SYSTEM (SWS)
RIFLE</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="94">

Action:</td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="94">
Remington
Model 700 production long action receiver<span
class="MsoFootnoteReference"><sup><![if
!supportFootnotes]>^{[1]}</sup><sup><sup>
</sup></sup><![endif]>
with M/40X custom trigger.   Bolt
handle knob is smooth. Fire control is externally
adjustable from two to eight pounds pull.<a href="#_ftn2" name="_ftnref2"
title><sup><![if !supportFootnotes]><sup>[2]</sup><![endif]></sup>
Accuracy exceeds the U.S. Government requirement
for a sniper weapon that would retain its zero
under adverse conditions (including airborne
operations) and be capable of attaining 1.3 inches
Average Mean Radius (A.M.R.) at 200 yards.</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#FFFFFF" height="60">
Barrel:</td>
<td width="79%" valign="top" bgcolor="#FFFFFF" height="60">
Round, 24"
free-floating, 416-R stainless steel barrels were
initially manufactured by the Rock Barrel
Company. Remington now makes the barrels
in-house. The bore is especially rifled for the
M118 special ball cartridge. Remington 5-R rifling
has an unconventional five lands and grooves. The
twist is 1 turn in:11.25-inches.</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="60">
Barrel marking:</td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="60">
The caliber 7.62
NATO is stamped on left side of the barrel,
approximately 10-inches forward of the receiver.
The assemblers mark is stamped next   to the
recoil bracket. On the right side next to the
recoil bracket is the MagnaFlux acceptance mark,
proof mark and final inspectors mark.</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#FFFFFF" height="12">
Bayonet:</td>
<td width="79%" valign="top" bgcolor="#FFFFFF" height="12">
None</td>

```
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="12">
 <b><font face="Verdana" size="1">Butt plate:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="12">
 <font face="Verdana" size="1">Aluminum assembly is
 adjustable through a range of 2.7&amp;quot;</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="24">
 <b><font face="Verdana" size="1">Cartridge:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="24">
 <font face="Verdana" size="1">7.62 NATO M118
 Special Ball, match-grade ammunition with
 173-grain boat-tail bullet.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="36">
 <b><font face="Verdana" size="1">Contract:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="36">
 <font face="Verdana" size="1">The initial U.S.
 Government contract was #DAAA21-87-C-0086.&amp;nbsp;
 Initially each system sold for $4,995, and later
 this was reduced to $3,980 each, complete.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="36">
 <b><font face="Verdana" size="1">Designer /
 inventor:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="36">
 <font face="Verdana" size="1">Principle designer
 assigned to the SWS project was F.E. Martin. T.C.
 Douglas was assigned as project superintendent.&amp;nbsp;
 Program at Remington began with one full-time
 employee assigned; and finished with 14.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
 <b><font face="Verdana" size="1">Finish:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
 <font face="Verdana" size="1">A Rem-Tuff
 powder-coat (matte-black finish) applied to all
 external metal parts to reduce light reflection</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="12">
 <b><font face="Verdana" size="1">Front sight:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="12">
 <font face="Verdana" size="1">Detachable Redfield
 Olympic big bore open front sight</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
 <b><font face="Verdana" size="1">Introduced:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
 <font face="Verdana" size="1">The first 100
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 production SWS systems were delivered to the U.S.
 Government on October 25, 1988.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="24">
 <b><font face="Verdana" size="1">Magazine:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="24">
 <font face="Verdana" size="1">Five shots with bolt
 closed.  Floor plate can be opened by a release
 switch inside the trigger guard to quickly dump
 ammunition.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
 <b><font face="Verdana" size="1">Manuals:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
 <font face="Verdana" size="1">Technical manual: TM
 9-1005-306-10, dated February 1989.  Operator's
 Manual:  7.62mm M24 Sniper Weapon System (NSN
 1005-01-240-2136).</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="24">
 <b><font face="Verdana" size="1">Manufacturer:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="24">
 <font face="Verdana" size="1">Assembled in the
 Custom Shop of Remington Arms Company, Inc.,
 Ilion, NY</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="12">
 <b><font face="Verdana" size="1">Overall length:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="12">
 <font face="Verdana" size="1">43-inches</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="12">
 <b><font face="Verdana" size="1">Price:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="12">
 <font face="Verdana" size="1">Currently, each
 complete system costs $6,000.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
 <b><font face="Verdana" size="1">Rear sight:</font></b></td>
 <td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
 <font face="Verdana" size="1">Detachable Redfield
 Palma Match open sight provided for emergency
 usage.</font></td>
</tr>
<tr>
 <td width="21%" valign="top" bgcolor="#FFFFFF" height="36">
 <b><font face="Verdana" size="1">Receiver:</font></b></td>
 <td width="79%" valign="top" bgcolor="#FFFFFF" height="36">
 <font face="Verdana" size="1">Drilled and tapped
 for scope mount with #8-40 holes, and #6-48 screw
```

holes for receiver sight. Steel trigger guard and floor plate are manufactured by Dakota Arms. </td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
Receiver marking:</td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
Remington M700 / M24 and U.S. is stamped on rifles intended for the U.S. Army.</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#FFFFFF" height="24">
Safety:</td>
<td width="79%" valign="top" bgcolor="#FFFFFF" height="24">
Ambidextrous two-position safety modified to give equal on - off safety force</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="48">
Scope:</td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="48">
Leupold-Stevens Ultra M-3A day optic sight, fixed at 10-power, with Mil Dot system range-finding reticle. Has a bullet drop compensator and is adjustable for parallax (focus). The scope caps are commercially available from Butler.</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#FFFFFF" height="24">
Serial number location:</td>
<td width="79%" valign="top" bgcolor="#FFFFFF" height="24">
Bottom of turret (same as product B.A.C.F.).</td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
Serial number range:</td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
Concurrent with Model 700 production. </td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#FFFFFF" height="108">
Stock:</td>
<td width="79%" valign="top" bgcolor="#FFFFFF" height="108">
<font face="Verdana" size="1">One-piece Synthetic Kevlar and graphite composite stock manufactured by H-S Precision, (from a pattern submitted by Remington) with an aluminum bedding block throughout. Adjustable length of pull (12 to 14

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inches) provided by an adjustable aluminum butt
plate assembly.  High comb on stock to facilitate
the use of telescopic sights.  Palm-swell on both
sides of grip. The rifle Beavertail-type
fore-end.  An aluminum channel extends full length
of fore-end. The sling swivels, magazine Floor
plate and trigger guard are attached to the
channel for additional strength. Equipped with a
Harris (short) bipod.</font></td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="24">
<b><font face="Verdana" size="1">Weight:</font></b></td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="24">
<font face="Verdana" size="1">Rifle, bipod and
scope weigh 13lbs/13oz.  The complete system,
including carrying case weighs 56 pounds.</font></td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#FFFFFF" height="60">
<b><font face="Verdana" size="1">Accessories:</font></b></td>
<td width="79%" valign="top" bgcolor="#FFFFFF" height="60">
<font face="Verdana" size="1">Include a
foam-lined, heavy-duty, fiberglass carrying case
(manufactured by an outside contractor and costing
$505 apiece) and soft cases for the rifle and
scope.  Other accessories include iron sights,
cleaning equipment, manuals, bipod, sling swivels,
M1907 sling and a spare parts kit. </font></td>
</tr>
<tr>
<td width="21%" valign="top" bgcolor="#EFEFE7" height="60">
<b><font face="Verdana" size="1">Reconditioning
contracts:</font></b></td>
<td width="79%" valign="top" bgcolor="#EFEFE7" height="60">
<font face="Verdana" size="1">The initial contract
was awarded to Remington to repair/recondition the
U.S. Governments Sniper Weapons Systems between
August 1992 and August 1997.  The 2nd contract
currently runs from August 1997 to August 2002. 
It was noted that over 10,000 rounds had been shot
in some SWS barrels!</font></td>
</tr>
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                </table>
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8pt"><b>References:</b>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&
nbsp; </span></font><span style="font-size: 9pt">
                <b><font
size="1">&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
p;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbs
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p;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
                <a href="#top">^ Back To Top</a></font></b></SPAN><font face="Verdana"><span
style="font-size: 8pt"><br>
                &nbsp;<br>
                Extensive and valuable assistance on this article was
                unselfishly given the authors by Remingtons Fred Martin
                and Tom
Slagle.&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; <br>
                &nbsp;<br>
                U.S. Army Training Circular No.23-14<br>
                Sniper Training and Employment<br>
                June 14,
1989.&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp; <br>
                &nbsp;<br>
                U.S. Army Technical Manual No.9-1005-306-10<br>
                Operators Manual, 7.62mm M24 Sniper Weapon System
                February 1989. </span></font></p>
                <p><font face="Verdana">
                <a href="#_ftnref1" name="_ftn1" title>
                <span class="MsoFootnoteReference"><![if !supportFootnotes]>
                <font size="1">[1]</font><![endif]></span></a><font size="1">&nbsp;&nbsp;
                </font><span style="font-size: 8pt">The Long Action
                receiver was adopted to meet the U.S. Army requirement
                that the sniper weapon be readily converted to a yet to
                be developed magnum cartridge.&nbsp; <br>
                </span><a href="#_ftnref2" name="_ftn2" title>
                <span class="MsoFootnoteReference"><![if !supportFootnotes]>
                <font size="1">[2]</font><![endif]></span></a><font size="1">&nbsp;
                </font><span style="font-size: 8pt">However, the Technical
                Manual recommends between three and five pounds.</span></font></td>
               </tr>
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           </tr>
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