

Remington Arms Technical Center

**Project Name: 504 Target**  
**Project Number: 241426**  
**R&D Engineer(s): Will B James, Vince Norton**

**Revised: 5/12/05**  
**Marketing Manager: John Trull**  
**Plant Contact: Kevin Lance**

**Status:**

- Completed shooting both 17HMR and 17M2 Universal receivers. 17HMR averaged 0.607" the 17M2 averaged 0.8" with Eley ammunition @ 100yds. The CR barrels are 1 in 9 twist rate. Free bore is less than 1/64".
- 504T HB 17HMR (DAT 3) Accuracy @ 100 yards, 10 gun average was 1.602". (597 17HMR T&P accuracy was 1.44" at 100 yards)
- 504T HB 17HMR (DAT 3) Accuracy @ 50 yards, 8 gun average was 0.728".
- Ordered green mountain 17HMR barrel blanks, 25" long and 1.062" in diameter.
- Mayfield will order SAMMI 17HMR chamber reamers.
- Sent two (2) DAT 504 17HMR to custom shop for evaluation. The two guns shoot 1.62" average at 100 yards. After lapping barrels the guns were shoot at 100 yards. Five, 5 shot groups averaged 1" at 100 yards with Hornady ammunition and 1.4" at 100 yards with Remington ammunition. The Custom Shop has completed the bedding of the stocks (May 13<sup>th</sup>). The Custom Shop will send the stocks to E-town for final accuracy evaluation due to a fire in the Custom Shop's gallery.
- Current software using actual velocities from production rifles indicates a slower twist maybe beneficial; 1 in 11 or 1 in 12 inches. Mayfield will order a rifling button with new twist rate and evaluate.

**Issues:**

- 1.

**Action Items:**

| Action Item   | Status     | Responsible | Date    |
|---|------------|-------------|---------|
| 1. Transmit Drawing package 504T HB 22LR              | Complete   | R&D         | 4/15/05 |
| 2. Ordered Green Mountain barrel Blanks 17HMR         | Complete   | R&D         | 5/06/05 |
| 3. Finish-out Green Mountain Barrels & Evaluate       |            | Mayfield    | 5/23/05 |
| 4. Custom Shop evaluation of 504 17HMR                | In process | Ilion       | 5/17/05 |
| 5. Measure velocity & evaluate twist rate             | Complete   | R&D         | 4/28/05 |
| 6. Order SAMMI chamber reamer                         | Complete   | Mayfield    | 5/9/05  |
| 7. Order 1 in 12 twist rifling button                 | In process | Mayfield    | 5/9/05  |
| 8. Mayfield will evaluate DAT guns from jack (4 guns) | In Process | Mayfield    | 5/13/05 |
| 9. T&P build for 504T 17HMR                           | After DAT  | Mayfield    | TBD     |

**Schedule / Key Milestones:**

| Milestone               | Current Date |
|-------------------------|--------------|
| EET                     | 6/30/04      |
| DAT 504LR               | 3/11/05      |
| DAT 504 17HMR           | 3/25/05      |
| T&P 504T 22LR           | 4/20/05      |
| T&P 504T 17HMR          | TBD          |
| Warehouse Position 22LR | 4/30/05      |