

**Project Name: 504 22 Hornet**  
**Project Number: 241451**  
**R&D Engineer(s): Will B James, Vincent Norton**

**Revised: 5/13/05**

**Marketing Manager: John Trull**  
**Plant Contact: K. D. Lance**

**Status:**

- M/504 - 22 Hornet will require design changes to the current 504 platform in the following areas: bolt head, firing pin, ejector, magazine, follower, spring, magazine housing, box bottom and extractor.
- Ilion Custom Shop will provide two (2) 504 - 22 Hornet barrels without extractor cuts for the receiver clamp and lockup test. Test will consist of 100 rds of 22 Hornet proof rds.
- Working through some design concerns with new magazine design. The design will consist of a staggered round magazine with capacity of 4 rds.
- Currently working through the bolt face design. Considering the size of the bolt face a new claw type extractor will be designed.
- There is not enough room for the standard 504 blade type ejector. The ejector will be a standard center fire type in the face of bolt.

**Issues:**

- 1) Will current barrel receiver clamping and bolt locking system hold the additional pressures created by the 22 Hornet?
- 2) NPP for this project?

**Action Items:**

Action Item	Status	Responsible	Date
1. Finished 504-22 Hornet barrels	In Process	Custom Shop	4/25/05
2. Design center fire 504 bolt head for Test	Complete	R&D	4/1/05
3. Order bolt components	Complete	R&D	4/12/05
4. Order proof rds for receiver clamp test	Complete	R&D	4/15/05
5. Test Receiver clamping & bolt locking system	Waiting on barrels	R&D	5/25/05
6. Design Final Bolt head / extractor	In Process	R&D	5/31/05
7. Complete design of magazine	In Process	R&D	5/31/05

**Schedule / Key Milestones:**

Milestone	Current Date
EET	9/09/05
DAT 1	1/13/06
T&P	6/06/06
Warehouse Position	3/06/06