



The global leader in delivering complete solutions for ammunition, primer, and propellant manufacturing facilities.



 D&M Holding Company, Inc.



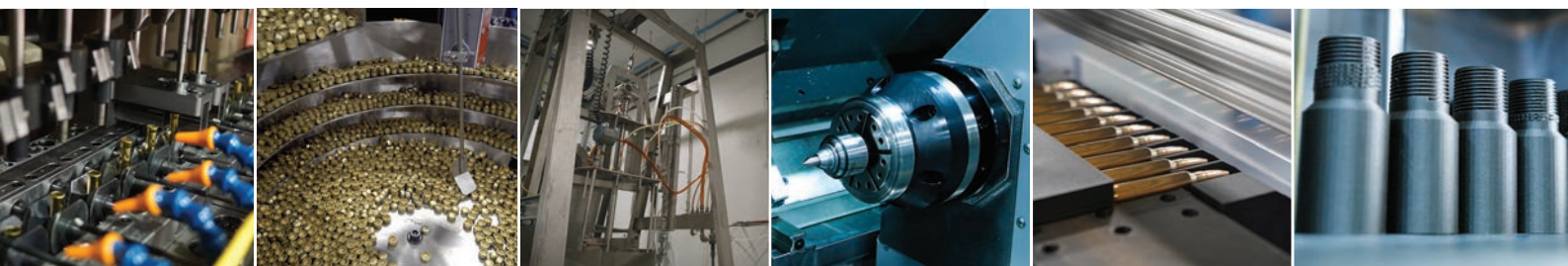
## Your success starts with our experience.


**D&M Holding Company (D&M Ammunition Manufacturing Solutions) and White River Energetics** is the global leader in delivering fully equipped solutions for ammunition, primer, and propellant manufacturing facilities. D&M has successfully designed, built, and managed some of the most advanced factories around the globe, for both private and government entities. US headquarters are in Tampa, Florida, with state-of-the-art facilities in Cabot, Arkansas, staffed by a team of over 200 ammunition manufacturing industry professionals. Unique to the industry is our 24/7 worldwide support with rapid response teams.

**D&M's** complete ammunition line implementation experience includes projectile and cartridge case manufacturing; primer plant design, construction and startup including metallics production, automated primer mix process, and assembly & packaging cells; and propellant plan design, construction, and startup.

Through its 15,000-square-foot state-of-the-art facility in Arkansas, **White River Energetics** manufactures small arms primers, including rifle magnum primers for a wide range of domestic and international clients in defense and sporting markets.

**D&M** also provides targeted consulting services to start-ups, existing manufacturers, investors, and customers on a wide range of subjects related to the manufacture of ammunition, primers, and propellants. Our consulting expertise includes: Business Plans, Initial Financial Models, Price & Cost Analysis, Strategic Planning, Quality Control Systems & Processes, and International Growth.





**We have the experience to not only help you build your own ammunition, primer, or propellant plant from the ground up, but to ensure the ongoing success of your ammunition business.**

**Our Comprehensive Solutions include:**

- Projectile Manufacturing
- Case Manufacturing
- Loading, Assembly, and Packing
- Primer Manufacturing
- Propellant Manufacturing

**At D&M, we don't stop there. We also offer:**

- Consulting Services
- Turnkey Ballistics Laboratories
- Tooling
- Individual and Specialty Machines





## PROJECTILE MANUFACTURING

D&M can design and implement a wide range of projectile manufacturing lines:

**Pistol & Small Rifle** (9mm up to .223)

**Medium Rifle** (7.62mm up to .338 Lapua)

**Large Rifle** (12.7mm up to 14.5mm)

Whether pistol or rifle, the process begins with lead wire being extruded through a horizontal press to create the bullet cores. The bullet cores are then fed through a collator into the assembly cell. The bullet jackets are drawn within the assembly press.



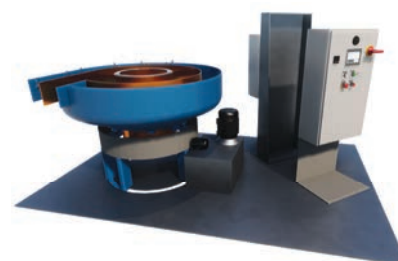
Transfer Press



Strip De-Coiler



Lead Header Press



Wash Unit





## CASE MANUFACTURING

**By Wire** (Pistol)

**By Wire** (Rifle)

**By Cup** (Double Transfer Press)

**By Cup** (Single Line)

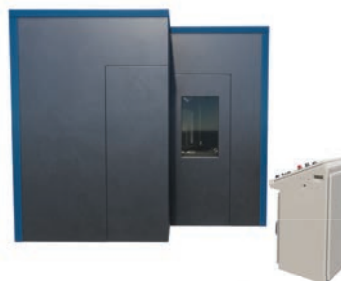
Based on your caliber requirements, D&M uses proprietary equipment for rifle or pistol case manufacturing by either the cup or wire method. Using the cup method, the process begins with one of our transfer presses for drawing tubes from cups, then moving through remaining processes ultimately reaching our own QC/visual inspection stations.



Case Press



Wash Unit



Header Press



Head Turn & Trim Machine



Flash Hole Piercing



Body Annealing



Taper Press



Pit Furnace



Laser Inspection



## LOADING, ASSEMBLY, AND PACKING

D&M will set up the entire system:

- Priming
- Turret Loading
- Plate Loading
- Sealing
- Packaging



## SPECIALTY CAPABILITIES

### Turnkey Ballistics Laboratories

Our turnkey solutions enable our customers to develop loads, test pressure, velocity, and accuracy of loaded ammunition. Equipment and processes ensure you are manufacturing high quality ammunition that meets SAAMI (USA), CIP (European), or NATO military standards.

### Turnkey Metallurgy Laboratories

Our turnkey metallurgy laboratories are purposely built to ensure the best quality of incoming, in-process, and outgoing parts. They are built to monitor grain size throughout the cartridge case, measure hardness, perform chemical testing, and measure and record quality of outgoing cartridge cases against international and military standards.



# PRIMER AND PROPELLANT MANUFACTURING SOLUTIONS



## PRIMER PLANTS

D&M manufactures complete turnkey systems for the manufacture of boxer type primers. Our capabilities include metallics manufacturing, chemical composition preparation, and assembly.

### Metallics

For Cup and anvil manufacturing, D&M has multiple options, based on the customers production requirements. We offer state of the art high volume presses as well as smaller high speed presses which produce the same high quality part at reduced volumes. Metallics production includes:

- Strip de-coiling
- Cup Presses
- Anvil Presses
- Multi-stage Wash Units
- Quality Control & Inspection Equipment

### Chemical

Our chemical storage and laboratory include all equipment and process needed for primers, including either separate purpose built bays or buildings for the following:

- Trinitroresorcinol synthesis through Nitration process
- Lead Styphnate Precipitation Plant
- Tetrazene Precipitation Plant
- Primer Detonation Mixture Plant
- Waste Water Treatment
- Material Storage
- Anvil Presses
- Multi-stage Wash Units
- Quality Control & Inspection Equipment

Our chemical process is nearly 100% automated, so no human is present in the room during the processes.

### Assembly

The D&M Primer Charging, Assembly & Pack (CAP) Cell is a mostly automated “plate” based cell that loads/doses the primer mixture into the primer cups, then assembles the primer through a series of process and inspection stations.

Once charged and assembled, the primers can be packaged for internal use or for sale or shipment outside of the factory. We offer multiple options for traying and packing from very semi-automated to completely automated systems.

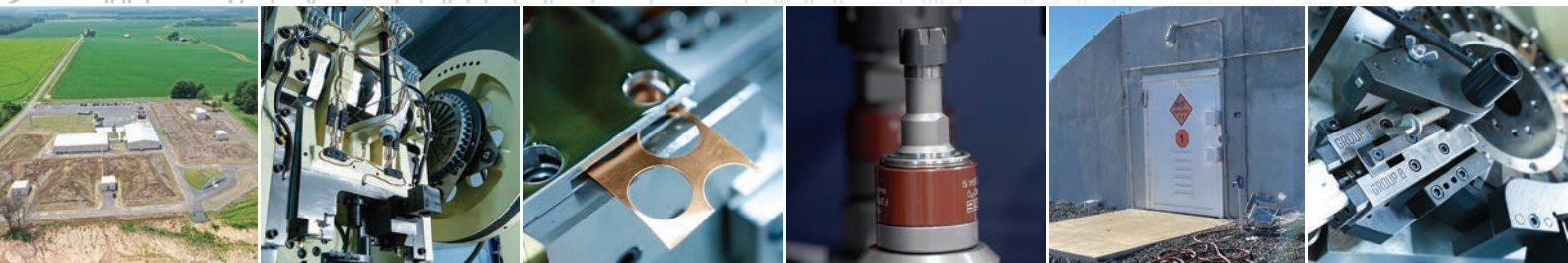
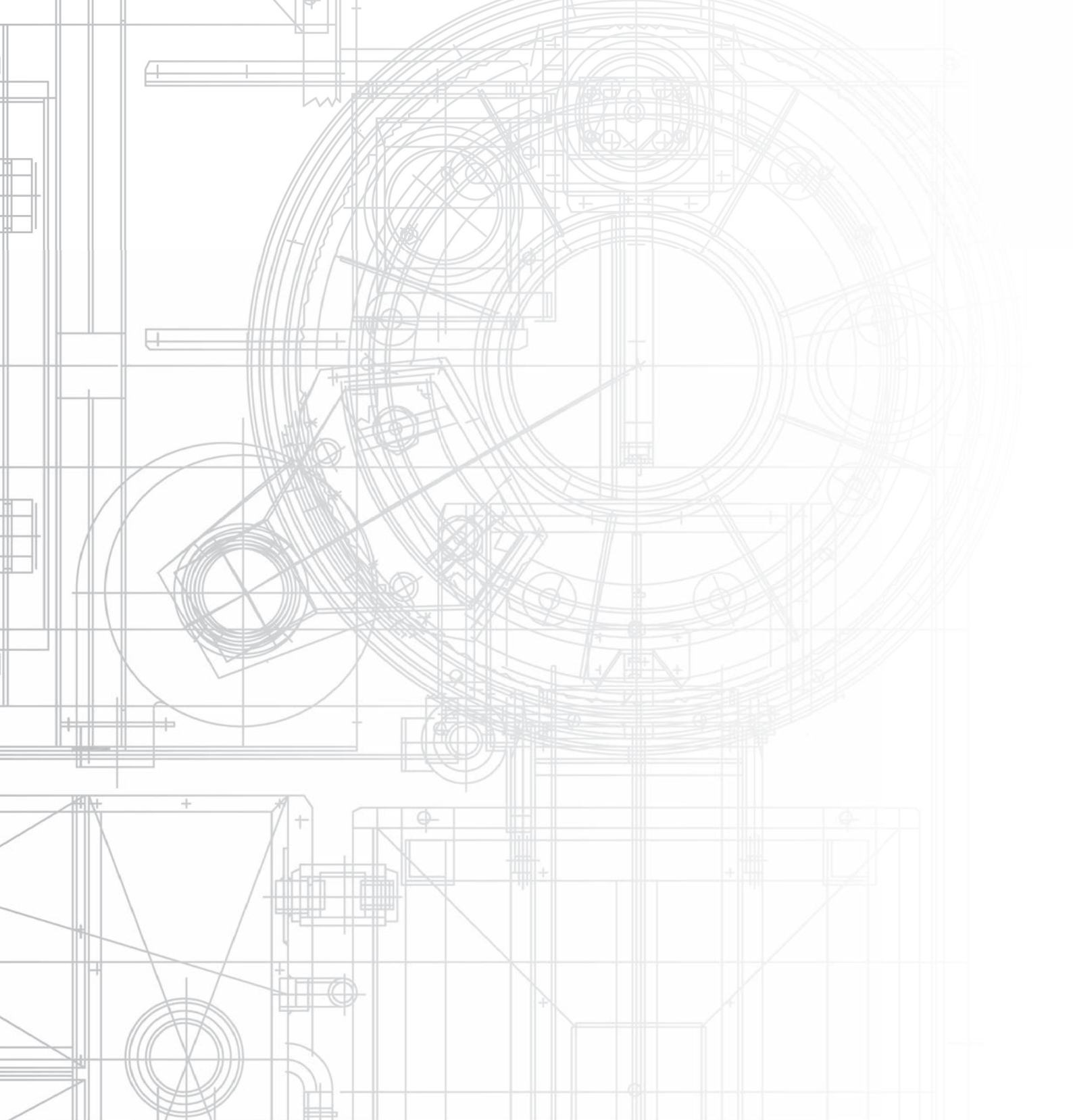
## PROPELLANT PLANTS

- Design, Construction & Start-up
- Full Range of Engineering Services
- Single and Double Base Propellants, and Nitrocellulose

D&M has assembled a team of explosives factory engineers with the experience and expertise to build modern propellant processing plants. D&M is committed to aggressive construction schedules, maintaining a mobile technical staff, and providing a commitment to customers that extends well beyond project completion. Propellant and explosive plants are central to D&M's expertise. Allow us to show-case our cutting-edge capabilities in energetic factory construction.

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**CONTACT US ABOUT OUR CONSULTING SERVICES.**



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