



## The Science of Identification

CONNECTING YOUR ID REQUIREMENTS  
WITH THE CORRECT TECHNOLOGY

# Technology & Experience — Core Expertise

## CONNECTING YOUR PRODUCT ID REQUIREMENTS TO THE CORRECT TECHNOLOGY

Companies serving the Defense & Aerospace Industry face a rising level of identification, traceability and life cycle management demands.

Identification is required to be not only correct, but secure, robust and in some cases contain advanced security measures to prove authenticity. The challenge for defense suppliers is to comply with these mandates without losing focus on their core business.

Freedom Technologies is that expert center.

Our team of Subject Matter Experts (SME's) in Identification and Materials bring years of experience in codes, adhesives, labels, and materials together to focus on your particular ID needs.

Let Freedom Technologies do the heavy lifting. When it comes to ID, your project is assured of having the most fitting and correct technology for your application. We respect your primary mission while achieving ours.

### MISSION CRITICAL ID

- CRITICAL COMPONENT MARKING
- ENGINEERED ID WITH ZERO IMPACT FOR MISSION CRITICAL COMPONENTS
- ORDNANCE MARKING
- HERO CONSIDERATIONS
- TRACK & TRACE ORDNANCE & ARMOR ID CODES
- EXTREME ENVIRONMENTS OF HEAT, COLD, CHEMICALS, ABRASION OR ATMOSPHERES

## the science of identification

### DEVELOPING TECHNOLOGY TO WORK

Freedom Technologies actively develops new technology to push the envelope of what is possible in Identification & Protection. Our focus of meeting client needs pushes our teams to find new sources and new technologies to meet mission demands. Some accomplishments include:

- 2nd and 3rd generation laser labels for UID with increased resistance to abrasion from sand storms.
- Advanced codes for track and trace in truly extreme scenarios such as ammunition and armor.
- Anti-Corrosive barriers for Direct Part Markings.
- Advanced chemical protection for flight component use.

### LIFE CYCLE MANAGEMENT ID

Track & trace solutions for products from birth to end of life depend on one thing being constant: the identification. From the first critical process step, this ID must be in place and readable. This mandate continues on for the life of the part.

Sounds simple, but when the first critical step is raw hot steel and the last step is a CARC painted vehicle, that takes a certain expertise.

For ID with proven longevity, Aptus ID performs.





## WHEN YOUR EQUIPMENT HAS LIVES DEPENDING ON IT, DEPEND ON US

### WHY IDENTIFICATION & PROTECTION?

STRANGE COMPANIONS BUT NATURAL ALLIES WHEN  
FORM FOLLOWS FUNCTION IN DESIGN.



*Defined breaking points destroy the label during a tampering attempt*

Identification and Protection don't seem naturally related at the outset. But scratch just below the surface on any ID and the need for excellent protection becomes immediately obvious.

Missing parts of any ID which people depend on is not acceptable, especially on

mission critical components. Missing data, like logistics and cost analysis, can have disastrous consequence for repair or replacement.

In order to guarantee data is ready and readable when required, high levels of protection are often necessary. Our products provide protection from some of the worst organic and man made sources of damage to be found. When your need is for serious protection, Aptus ID is the smart answer.



### IDENTIFICATION

ID can take many forms; alpha numeric, graphic, code, overt and covert markings.

Our expertise in all forms of ID technology also includes the key step of process reliability and implantation planning for actual mark implementation



### MATERIAL SCIENCE

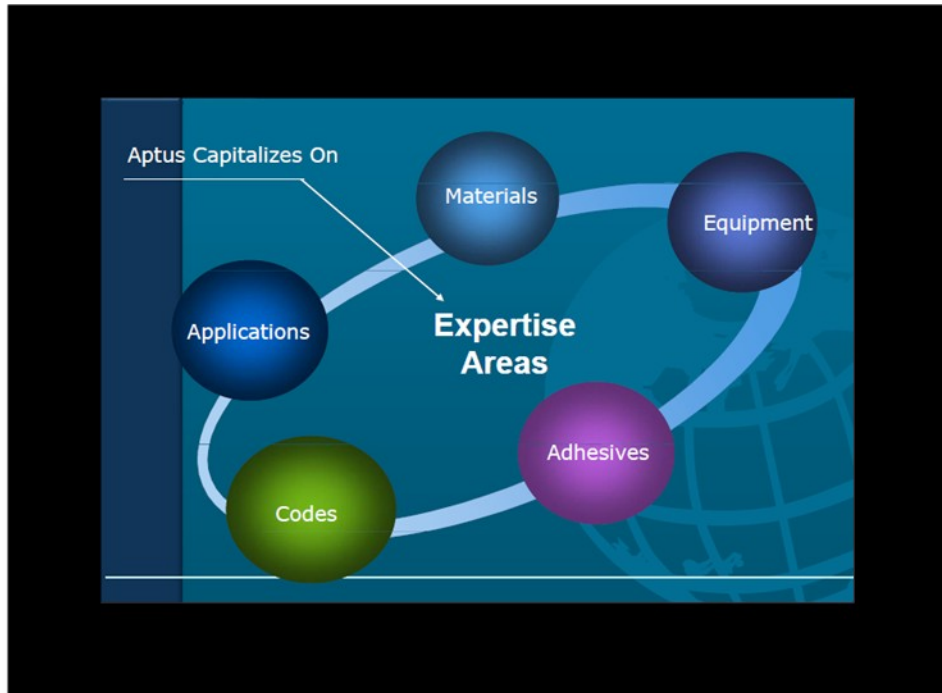
One of the keys to understanding an ID is to understand what is being marked.

The receptivity of the material to inks, adhesives, lasers and stampings plays a large role in determining how a part should be marked.



### DURABILITY

Durability of ID is not just the simple act of marking a part. It is the serious and measured consideration of the normal life cycle and its consequences on the ID method and media.



### OUR CORE EXPERTISE & COMMITMENT TO CLIENTS

Our core expertise areas provide the basis for our dedication to the satisfaction of our customers and the accomplishment of their missions.

We are serving the same mission as our clients, serving the Warfighter. Our attention to every detail is predicated on this commitment .

### CRAFTED EXPERT SOLUTIONS

Aptus ID products are capable of meeting unique demands. Our product depth allows for some very unique solutions not found with other companies. Our products are the answers to clients most difficult questions.

### NEW TECHNOLOGY DEVELOPMENTS

**DPM SHIELD™ PROTECTION COVERS  
(PATENT PENDING)**

**ADVANCED LASER LABEL  
TECHNOLOGY FOR LIFELONG  
DURABILITY**

**FIELD DEFENSE LABEL™ PATENTED  
ARMOR DEFENSE LABEL™ PATENTED**

**ARMOR TRACK™ FULL LIFE CYCLE  
ID FOR ARMOR, FROM POUR TO  
FIELD**



***A Veteran Owned Small Business***

10370 Citation Drive  
Suite 200  
Brighton, MI 48116  
[www.freedomcorp.com/aptus.html](http://www.freedomcorp.com/aptus.html)  
Phone: 810-227-3737  
Fax: 810-227-3909