

## The global leader in automated tablet counting/filling systems asked Enginasion to develop a new count-verification system

**IMA North America designs, manufactures and integrates the world's most comprehensive line of equipment for automated tablet-counting systems. But counting the correct number of pills at high speed is challenging: each bottle must have an exact count of perfect tablets. IMA asked Enginasion to invent a superior tablet-counting verification system.**

**"The technology solution had to be simple yet reliable," says Charles J. "Chuck" Selig, Director of Product Development for IMA North America. "There was only one outsourcing choice for us: Enginasion."**

Clients of Enginasion include "big" and "little" companies in the Industrial, Medtech, Military, and Pharmaceutical sectors—some of whom have in-house engineering resources while some do not. Enginasion has helped clients to design and build hardware and software that monitors, measures and controls mechanical, electrical and fluid systems.

**IMA North America challenged Enginasion's electrical and software engineers to invent a superior tablet-counting verification system.**



### Benefits of the Enginasion Solution: **TruCount® Scanning System**

- More reliable.
- High-speed counting.
- Fully programmable.
- Automatically adjusts for tablet size, shape, gel or solid tablet, and color.

IMA serves markets around the globe.

**OVERVIEW:** Enginasion specializes in solving the most difficult automation problems, applying ingenuity, in-depth understanding of physical phenomena and materials, and wide-ranging expertise in digital and analog electronics, software, user interfaces, networks, fluid controls, motion control systems and measurement techniques.

**CLIENT:** IMA is the global leader in tablet counting and filling technology. With facilities and technical personnel located worldwide, IMA provides turnkey solutions and support for installations around the globe. Packaging solutions include slat and electronic tablet counters, liquid fillers, bottle unscramblers, cappers, cottoners, tube fillers & cartoners, line integration, engineering & validation services, and OEM parts. Industries served by IMA include pharmaceutical, nutraceutical, health & beauty, cosmetics, food and confectionary.

**CHALLENGE:** "We asked Enginasion to develop a better idea for a count-verification system," says **Chuck Selig, Director of Product Development for IMA.** "Our legacy system looked only at the presence or absence of a tablet in the mechanical sorting system of the machine. We needed a system that counted the tablets as they were released into the bottle to assure 100% accuracy. The system also was required to work with new and existing tooling (slats)."

**SOLUTION:** The revolutionary TruCount® system scans, evaluates and counts the product before it enters the bottle and ensures 100% count accuracy. Rather than using a vision system, TruCount® provides a fully integrated count verification system that is reliable and eliminates the need for operator set-up. A large array of photo diodes and detectors scan the product at nearly 2000 times per second after the tablet leaves the slat. Tablets are fully contained within the manifold to ensure counted tablets enter the bottle.

### What the experts are saying...



**Charles J. ("Chuck") Selig**

Director of Product Development  
IMA North America Inc.

*"Enginasion was a real 'partner' with us on this important project. Their team consists of experts, sure, but they don't talk down to us and they listen very well."*



**Roy Greenwood, BSEE**

VP, Electronic Software & Hardware Design  
Enginasion

*"The reason IMA relied on Enginasion is because we have earned the reputation for really digging in to our customers' needs and wants."*



**David Bonneau, BSEE**

Founder and CEO  
Enginasion

*"This project for IMA represents our core value to our customers: the unique combination of software and hardware expertise for electronics-related issues."*