



Process Automation & Input Control

Aegex10 IS Tablets + iniTECH IS Mobile Cart and Drum Lift



Situation:

A flavor, fragrance, and chemical manufacturer compounds many low-flash raw materials in a Class I Division I environment. Excessive material movements are needed to weigh and mix the raw materials.

The paper-based work processes require multiple manual steps, and typically take hours to complete.

The company wants to streamline these processes in order to limit mistakes, improve safety and increase productivity.

Requirements:

The flavor/fragrance/chemical company is seeking a mobile solution via a computer with scanning that will allow operators to easily, quickly and accurately compound materials.

The Proposed Solution:

The proposed technology solution for this fragrance manufacturer is:

1. **iniTECH C1D1 Mobile Cart**
2. **Aegex10 Intrinsically Safe Tablet**
3. **BatchMetrics Software**

The Challenge:

Using computers or electronics for compounding, mixing, transporting and filling in a regulated hazardous location causes serious safety issues. All equipment deployed in the facility must be certified “intrinsically safe” or “explosion proof” for UL Class I Division 1 hazardous areas, where concentrations of potentially combustible materials are constantly present.



1. iniTECH Mobile Cart

New Jersey-based iniTECH, a process automation engineering design group, has introduced the world's first approved computer-based mobile weigh cart.

The stainless steel cart features:

- Class I Division 1 certification
- Mettler Toledo scales
- 24-hours battery life
- Wireless barcode scanner
- Built-in Wi-Fi
- Swivel mount for tablet computer
- Tablet can be preloaded with BatchMetrics manual weighing software
- Direct connectivity to ERP, MES, or inventory system

The mobile cart brings the weigh scales to the raw material, rather than barrels of raw material being carried to a scale, thus giving operators the ability to measure and mix raw materials onsite with minimal material movements, resulting in greater accuracy, efficiency and safety.

iniTECH
SOLUTIONS DRIVEN



2. aegex10™ IS Tablet

The Aegex10 Intrinsically Safe Tablet is the first Windows 10 tablet to be certified for use in the world's most volatile hazardous areas (UL Class I,II,III Div 1; CSA 22.2; ATEX Zone 1; IECEx Zone 1).

The Aegex10 operates on Wi-Fi or 4G LTE from any hazardous location around the globe on a unified platform.

The 10.1-inch Aegex tablet is rated IP65 rugged for industrial use, yet is lightweight and priced as low as noncertified devices. Its Windows 10 operating system gives users uniform access to the Microsoft cloud, plus apps and services.

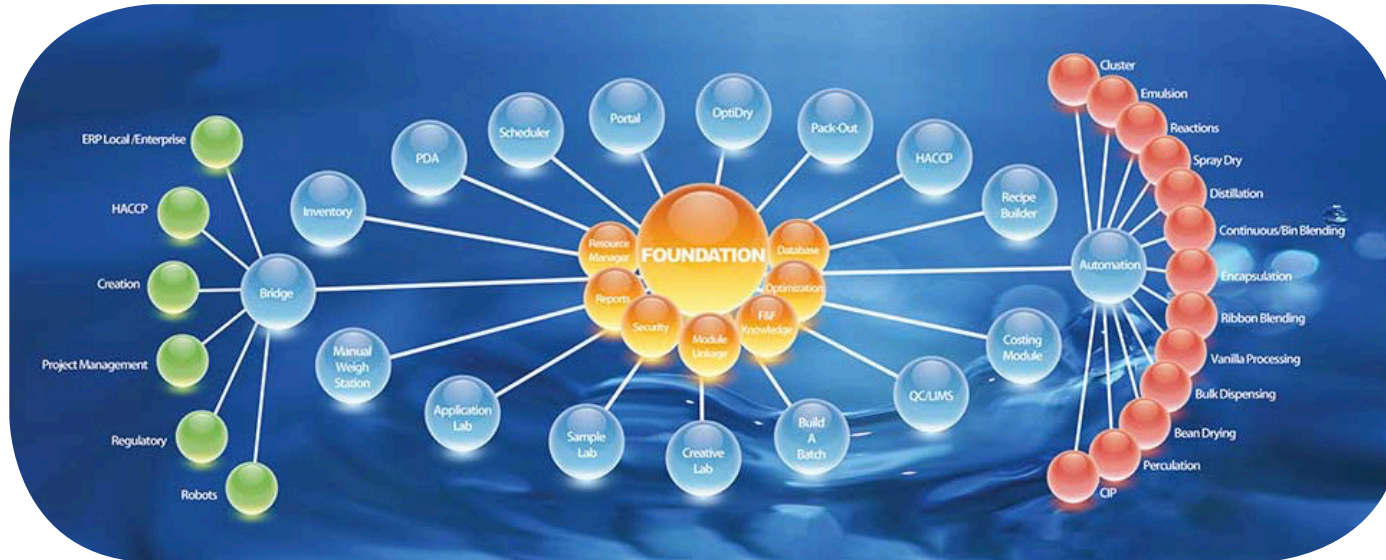
With the Aegex10 IS Tablet, operators can also use a number of Windows 10 applications to communicate with teammates, such as:

- Opening a Skype for Business line to speak directly and show visually the item in question
- Using Exchange/Outlook to email photos or other data
- Uploading information to a Microsoft cloud-based platform



3. BatchMetrics Software

BatchMetrics is a fully integrated internal supply chain solution specifically designed for the flavor, fragrance, and chemical industries. The custom-designed application optimizes internal supply chains. Typical productivity improvements range from 20% to 100%.



The Results:

Operators can insert the Aegex10 IS Tablet into the tablet holder on the iniTECH mobile cart. The operator can then:

- Use the tablet's NFC reader to detect the NFC tag on the cart to automatically connect via wi-fi to the scale
- Use the Bluetooth-connected handheld scanner or the tablet's camera to scan the barcode to confirm the correct raw material is added to the batch

While pouring, the operator can:

- See the exact weight on the scale as displayed in real time on the Aegex tablet, resulting in an exact pour
- Use the Aegex tablet to locate the next raw material, move the mobile cart to that vat, and pour the correct amount into the batch

Using BatchMetrics on the Aegex tablet, the operator can also:

- See the inventory locations and amounts in real time
- Complete all reporting using the tablet
- Save time and improve efficiency and accuracy

The entire process is streamlined by using the Aegex-iniTECH mobile solution, resulting in increased productivity and safety.

Contact Aegex or iniTECH to learn more.



About Initech

At iniTECH we are dedicated to help customers by developing, implementing, and supporting custom process automation and information integration solutions. IniTECH has been serving the Flavor and fragrance industry for more than 12 years with experience of over 150 man-years. We have a unique combination of Engineers, Consultants, and programmers with the in-depth knowledge required for successful completion of your automation challenge.

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About Aegex: A technology engineering and design company that provides intrinsically safe Industrial Internet of Things (IIoT) and mobile solutions for hazardous industries. Our globally certified intrinsically safe Windows 10 tablet, sensors and partner monitoring systems, form an IoT platform that manages big data to improve efficiency, safety and productivity in hazardous industrial environments in oil & gas, chemical, pharmaceutical, utilities, public safety, defense and other industries with potentially explosive atmospheres.

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