



**Rather than just manage your assets,
we aim to improve them.**





IMPROVEMENT

TRACK RECORD

TEAMWORK

Inteqnion is specialized in the design, build and installation of control systems for the batch and continuous controlled process industry. Our strength is asset management and its improvement. We help our clients to cut costs, reduce risk, improve results and to optimize the performance of their assets. We want more than just meet your needs: we take on the challenge to exceed your expectations.

Involved and proactive

With our control solutions, we focus on the improvement and optimization of your production process. We achieve this by carefully listening to you, by working closely with you and by creating tailor-made solutions for you. Our proactive approach will always focus to the best result for our customer.

Reliable

Inteqnion has an extensive experience with an international track record in the grain-processing and compound feed industry. In addition, we also operate in various other markets. With smart and innovative solutions we strive for the best performance in your sector. We help you to perform more efficiently and to maximize your Return On Investment.





More than technology, it's people who determine your results.

Inteqnion is accustomed to a large number of markets and sectors. Therefore we are perfectly capable in meeting your requirements. At the same time we will scrutinize your production process with an open perspective. This approach in combination with our skills and experience guaranties innovation and improvement.

One partner

Not only identification, analysis and recommendations. The power of Inteqnion is that thinking & acting, design & implementation, software & hardware are a consistent and reliable whole. We offer you a complete package which handles your entire process automation.

- › Design and engineering
- › Build and installation MCC and PLC panels
- › Software engineering PLC / SCADA
- › MES application Batch Explorer
- › Integration to other software packages
- › Turn Key installations including training, service & support

Training your people

Process technology continues to develop and delivers outstanding performance. Nevertheless, people remain a crucial factor. The human aspect makes a significant contribution to the final solution. Because of this we also ensure that your employees know all the details of the plant. We train them in operating the installation and troubleshooting. All this to smoothen your processes and make them as efficient as possible.





Better than for you, we prefer to work next to you.

It is our experience that open and lasting relationships allow us to help our customers even better. The better we know you and your business, the better we can act as your business partner.

Review and improvement

We are keen to invest in a fruitful long term relationship. We do this amongst other things like periodically visits for review and control. Our MES software Batch Explorer can easily communicate with various software programs. It provides you with key management information. Next to the technical control it also recommends about any improvement opportunities in your automated production process.

Service and support

Inteqnion responds quickly in case of any malfunctions. Also for scheduled or

unscheduled maintenance or adjustments to the system. We can do this onsite and or remote. The majority of our equipment is computer controlled so support by internet connection is highly adequate. Inteqnion has its own service team that is 24 hours a day, 7 days a week available.

Always close

We don't work for, but work together with our customers at Inteqnion. Personal and with short communication lines. A worldwide network of representatives and agents gives you the assurance of professional advice and support in your immediate vicinity.





Batch Explorer, automation and control of your production process.

Within our specialty, the control of batch and continuous controlled processes, we strive for operational excellence. Just 'good' isn't good enough. To enable distinctive performance, we developed our own MES automation system Batch Explorer. Software with an open structure, making the system always easy adjustable to function to your special needs.





Stable and powerful

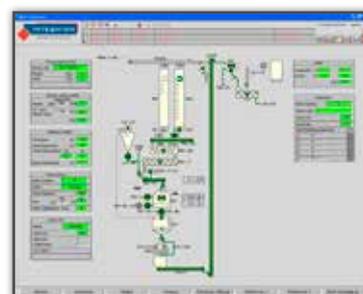
Batch Explorer includes all the functionalities for batch driven but also continuous production processes. It has proven to be a very stable and powerful system, that works great on both large and small installations. By a simple and clear menu structure it enables you to quickly and effectively manage your production processes. The visualization of your process is done by SCADA (Siemens WinCC).

Modular system

Batch Explorer has a modular structure. This allows us to set up the system to your specific processes. Adaptations and extensions can be done quickly and efficiently.

Inteqnion Batch Explorer consists of the following modules:

- › Weighbridge handling
- › Intake of raw materials
- › Bin management
- › Dosing
- › Grinding / mixing
- › Press control
- › Extrusion
- › Bulk outloading
- › Contamination prevention
- › Tracking & Tracing
- › Integration to other software



Smarter than a fixed system, you pick your options.

Weigh bridge

The weigh bridge module takes care of the communication between the weigh bridge and the production automation. Here all weighings can be directly integrated into **Batch Explorer** without manual intervention. This will save time and prevents human failures. The weigh bridge module can be used both for the intake as well as for the bulk outloading.

Intake

Raw materials can be taken in via several intake points, such as: ship-, pneumatic-, liquid- and bag intake. With the log on screen in Batch Explorer all expected intakes can be given in, in advance. With the arrival of a raw material, the right intake can be selected with one or more destination bins. After that the transport will be automatically routed to the selected bin, which will be checked for capacity, availability and material type. With the intake the following data can be put in the system:

- › Raw material number + name
- › Supplier + GMP code
- › Shipping company, driver, plate number
- › Contract data
- › Expected amount

Batching (dosing/grinding/mixing)

For the grinding/mixing line automation, the following functions are also available:

Production program

Here the operator can make the production planning. The production jobs will be executed in the order which has been given by the operator, with respect to the contamination table (when applicable).

Dosing parameters

In Batch Explorer the dosing parameters per raw material and per silo can be adjusted. In addition to the automation system ensures maximum efficiency with inflight corrections for blending materials.

Formulations

Formulations can be created with Batch Explorer and software included from specialist companies. Production values can also be added.

Stock control

After every intake and dosing the stock of the raw material bins will be updated. When a batch is completed in the grinding and mixing section also the stock of the destination bin will be updated. This can either be a press meal bin or a finished product bin.

Administration

Batch Explorer keeps all production parameters, batch- and lot numbers after every job. Besides that several reports can be printed with also registration of the batch, upper- and lower tolerances, recipe data, etc.



Pelleting

With the pelleting module several processes can be controlled, such as conditioning, hygenising, pelleting, double pelleting, expansion and extrusion. Within the automation of the pellet press control, production parameters can be used for every specific product which is going to be produced. In this way the customer can produce the product as effective and efficient as possible with both cold- and warm starts. Records of all process data ie. temperature, amps, outputs, etc. are stored in Batch Explorer.

Bulk outloading

Batch Explorer caters for every possible option for outloading- travelling weigh hoppers, weighing belts, loading bins and weigh bridges, all linked to stock records. An extra feature is the planning of shipments to the customer including section planning of the bulk truck. If requested even contamination check on the section of the bulk trucks can be integrated in the factory automation. Of course it is also possible to make an interface to the office automation for automatic invoicing and administration.

Tracking & Tracing

Batch Explorer can be provided with full Tracking & Tracing from raw material storage to finished products, and extended to customers delivery. Tracing from intake untill finished products delivered at the customer can be executed within a single batch. In this way the customer can react quick and appropriate to a possible incident, without spending lots of time on tracing paperwork.

Contamination

When needed Batch Explorer can be extended with a contamination matrix. In this matrix raw material- or product groups can be made, which defines what raw material or product can run after each other through the process. If group A is not allowed to follow group B through the process line, first one or more flushing or neutral batches have to clean the line before group A can be produced. Contamination prevention can take place from intake till bulk outloading.

Software interfaces

Software interfaces with **Batch Explorer** are easily made possible. The program has a very clear structure, which makes it possible to make an interface with every program. Interfaces can be made to programs such as recipe optimising packages and office software (sales, administration, financial administration). In this way administration tasks can be reduced to a minimum and typing errors will be prevented. Also a big advantage is that the administration is always up-to-date.

Language

Batch Explorer is available in Dutch, German, English, French, Spanish and Russian. Programs can be printed in other languages on request.

PROCES CONTROL FOR:

- > FEED & FLOUR MILLS
- > FOOD PROCESSING
- > BULK & SOLIDS
- > PROCESS INDUSTRY

INTEQNION BV
Weverij 2
7122 MS Aalten
The Netherlands

T +31 (0) 543 49 44 66
F +31 (0) 543 49 44 60
info@inteqnion.com
www.inteqnion.com



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