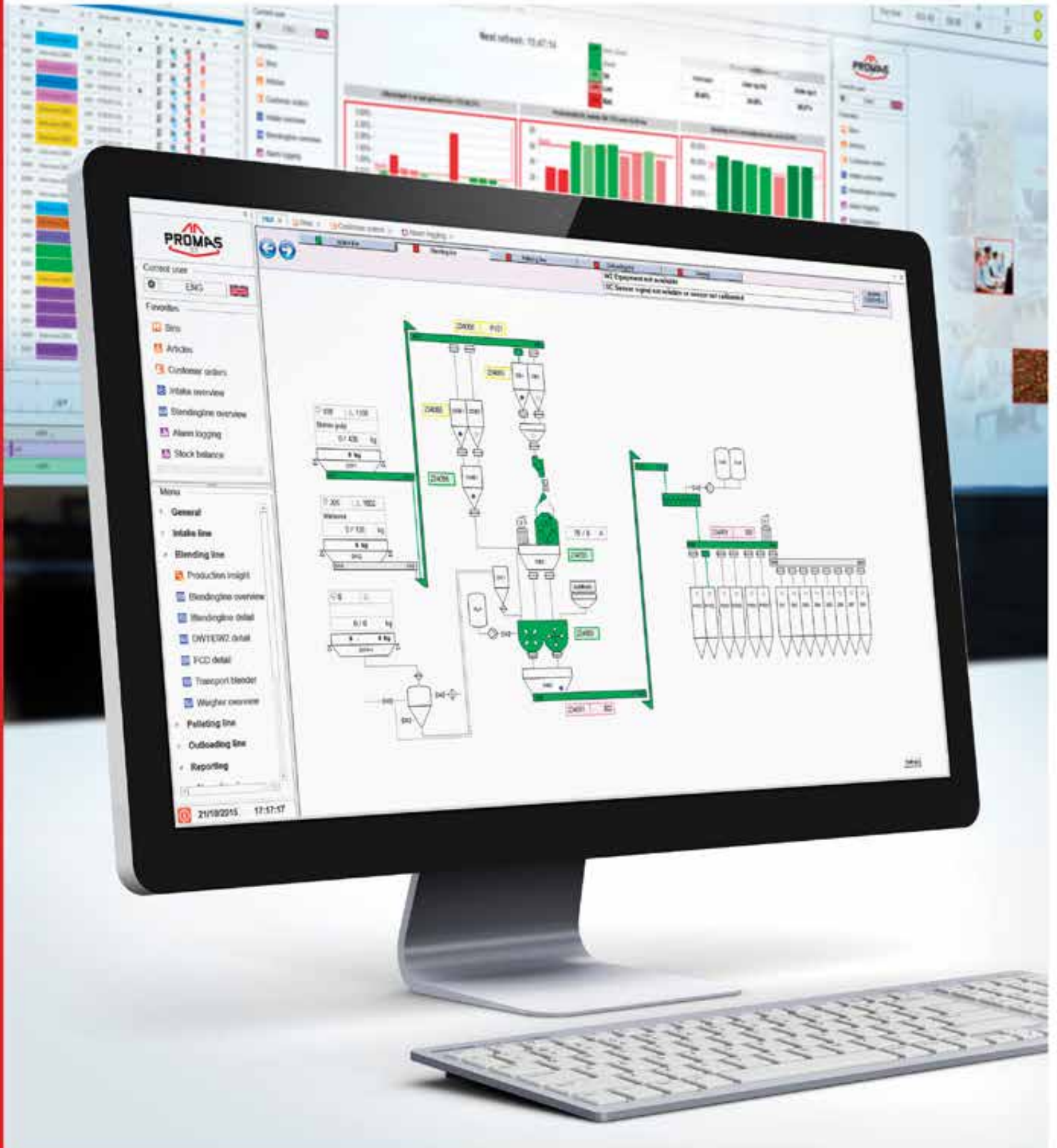


# FACTORY AUTOMATION MADE SIMPLE

FROM A SINGLE LINE CONTROL UP TO A FULLY AUTOMATED FACTORY



# GROW YOUR BUSINESS

## BY ENHANCING PRODUCTION

- Helps small companies grow, large companies streamline
- Optimize your production – improve capacity and quality, reduce costs
- Easy operation through using intuitive Windows platform
- Modular & scalable, from machine control up to complete factory automation
- Future proof – hardware independent and easy to upgrade

### MODULES FOR SIMPLE, ROBUST SYSTEMS

The PROMAS software ensures hugely simplified management, operation and maintenance – for simple plants to complex plants with thousands of I/O points.

Each software module integrates its own control, visualization and alarm handling. Your needs are probably already written and tested in any 'special' modules, and object oriented codes are easy to reuse and recycling means you can use them immediately. And if not, it's easy to modify them.

You can add new equipment easily without rewriting the complete code, and you're no longer tied to a few people with specific knowledge. System testing is easy through a simulation mode that lets you solve problems without affecting production. During training, the simulation can give everyone a hands-on feel of the production processes.

### Brings expert knowledge to every size company

PROMAS ST (Structured) factory automation software embodies 40 years of KSE's experience in animal feed production processes. Integrate your factory operations seamlessly with our unmatched expertise in the market. KSE operates globally – wherever you are, we're able to support you.

### What this brings our customers\*



CEO/CFO

We can gain experience by starting with just a basic module to (for example) control dosing. This can be expanded to blending, pelleting and transport, and higher level modules which improve performance and efficiency. From a single line to complete plant automation, we never pay more than we need.

It also gives us perfect control of operations, and all the information needed for strategic decision making. This way the factory works at its maximum capacity and quality for the lowest running costs. Lowest lifetime costs, too, since the automation software lasts as long as our plant's mechanical equipment.



Production planning/Logistics manager

PROMAS ST helps me to deliver to customers on time. When a client order comes in, I can predict when it will be ready to the minute. I can track customers and their orders, trucks, and drivers. I can also ensure that transport schedules correspond with production schedules, so I'm no longer constantly on the phone checking with other people. I have a better idea of what goes on, and I work less overtime!



Plant/maintenance engineer

I like to have a predicted risk of breakdowns, with machines and spare parts to be maintained and replaced. Monitoring I/O streams helps problem solving, and PROMAS can automatically supply our maintenance management system with actual data. That saves us a lot of time, and prevents human error.

I can add equipment like hopper knocking devices by just setting "Enable True/False" to "True", and specifying a few key parameters.



Plant manager

I get tailored information to help me make good decisions, with instant charts of Key Performance Indicators or Overall Equipment Efficiency per machine, operator or product line. I can connect by phone or laptop to any plant in the world.

Any problems, and KSE diagnoses them remotely. Their technical and application specialists are always available – even through the night shift and weekend. They understand our processes and solve problems quickly. They also help me with the longer-term improvements. Features like bottleneck analysis can suggest small changes to the process that will make a large difference to production.



Operator

To me it's about getting a complete system overview using familiar Windows screens. I can arrange the desktop how I like it, with multiple tabs for easy switching. The batch status is clearly colour coded. Running the system is simple, with an online manual if I need to check anything quickly.



Quality manager

I get the production information I need, along with detailed product traceability. I know what went into every product, along with every activity and event for every dosing, weighing, blending, grinding and transport machine, with a time stamp. All batches are labelled for ingredients, suppliers, operator, and parameters like temperature, humidity, pressure and energy consumption. If there's ever a problem, we know the exact suppliers and process conditions involved.

\* We have summarized comments made by several of our customers, including Jan Degraeve (CEO, Voeders Degraeve), Jan van Dijk (Quality Assurance Manager, Provimil), J. Fuite (Director, Gebroeders Fuite), Edyta Jeznach (Production Manager, Trouw Nutrition), Sjeff Lemmens (Scheduler, Coppens), Alex van Malleghem (CEO, Franson), Riemer Posthumus (Factory Manager, De Heus Voeders), Bob Pritchard (Manager, Coppens), and Martin Sonneveld (Managing Director, Jonker Petfood).



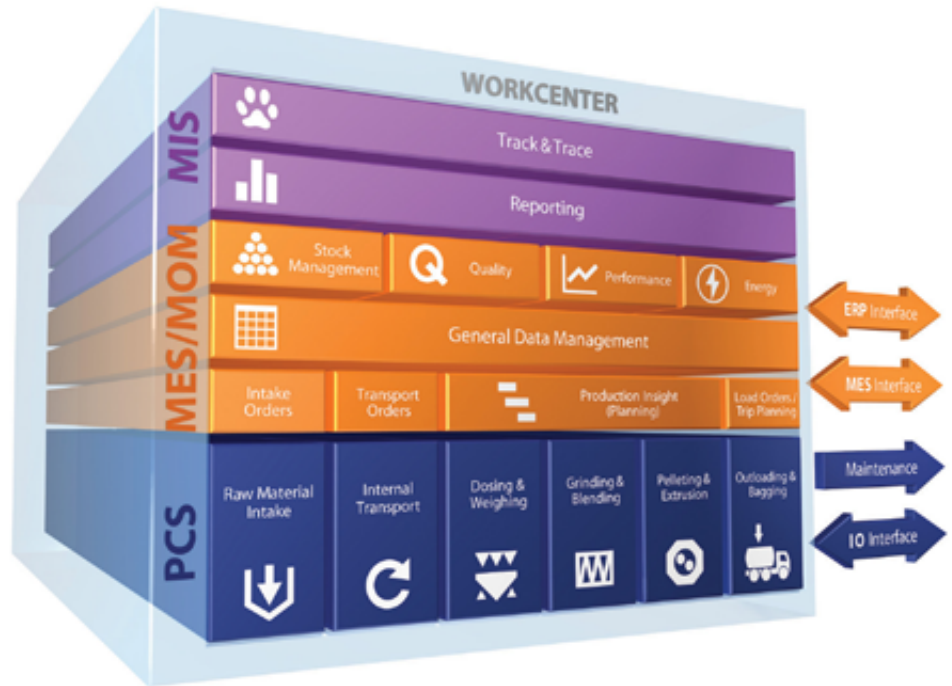
**PROMAS ST**

PROMAS is an open, transparent and integrated modular system.

All your production machines (including third-party machines) and processes work at peak efficiency with the **Process Control System** layer, through the extended library which is build up over the last 25 years.

Choose the functionalities you need to excel, since the **Manufacturing Operations Management and Manufacturing Execution Systems** are modular and scalable.

Top level **Management Information Systems** help you to optimize your processes.



**KSE: what we do**

KSE Process Technology is a family business that has grown steadily over the last 40 years to become a worldwide concern. We supply everything your factory needs to dose, weigh and transport your materials. Besides dosing and weighing systems themselves, we provide automation solutions and services for producers of powders, pellets and granulates for the animal feed and related industries.

The portfolio of KSE dosing and weighing solutions covers everything from micro up to macro components, with dose rates from 1 gram to above 6,000 kg. Next to this, KSE's future-proof PROMAS ST process control system completely automates animal feed and food industry factories. Remote support with on-line diagnostics and a 24-hour helpdesk are available to customers around the world.

Although many of our products are standard, all our systems can be optimized to your requirements with different options and modifications.

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Scan the QR code to find out more about PROMAS automation