

SOYBEAN PROCESSING    DOSING    PETFOOD  
TURN-KEY PROJECT    COMPOUND FEED  
AQUA FEED CRAFTSMANSHIP MODULAR SOLUTION  
**WE CREATE**  
GRINDING  
PELLETING    MIXING    HANDLING  
**SOLUTIONS**  
AUTOMATION    STORAGE  
SOLUTIONS    PROCESSING INDUSTRY  
PREMIX    CONTAINERISED FEEDMILL    CRUMBLING



**OTTEVANGER**  
MILLING ENGINEERS

WORLDWIDE



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» **Craftsmanship in the  
animal feed and food  
processing industry**





General information



Fane Valley Group, Ireland



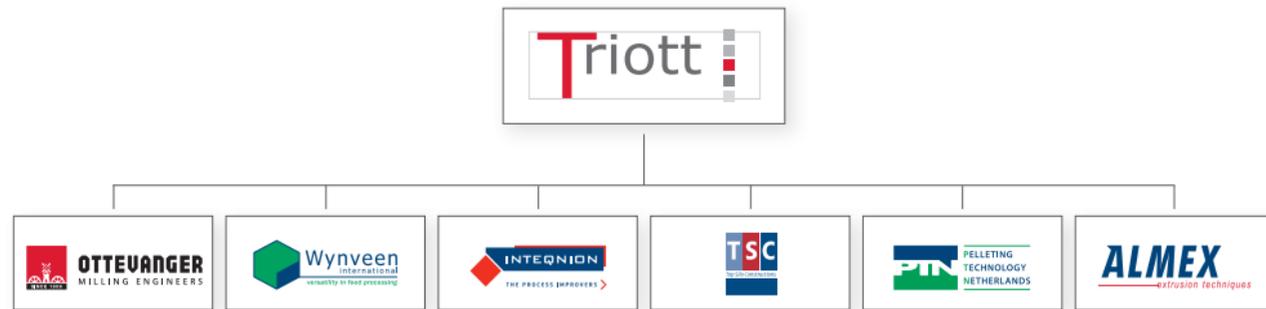
## Ottevanger Milling Engineers

Ottevanger Milling Engineers is a leading global supplier of production equipment and processing lines for the grain processing and compound feed industry.

Founded in 1909, Ottevanger Milling Engineers is an independent, privately owned and successful Dutch company under the management of the fourth generation of the Ottevanger family.

At our modern and well-equipped manufacturing facilities in Aalten and Moerkapelle, we design and produce a comprehensive range of process equipment. All according to the latest standards and incorporating the newest technologies.

Ottevanger Milling Engineers is part of the Triott Group

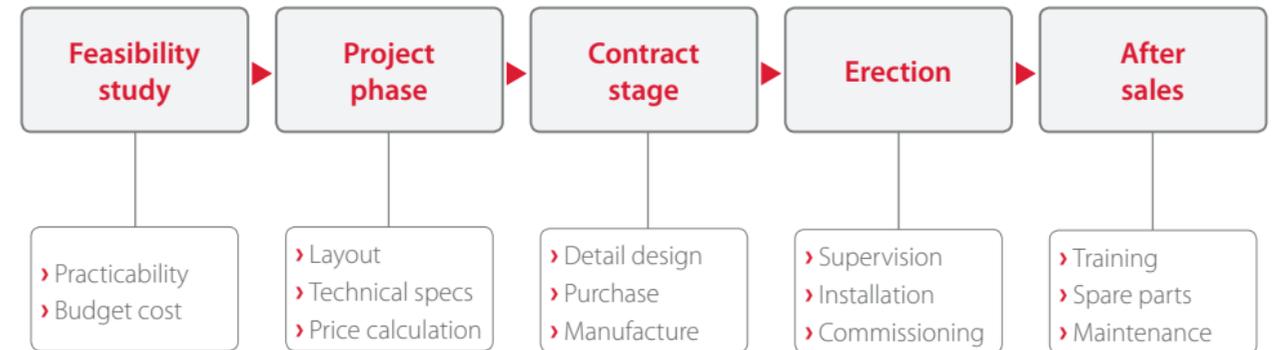


## The Triott Group

The Triott Group specializes in the design and construction of machinery and installations for the cereal processing industries. Over the last few decades the Triott Group has carried out many international projects, such as: machinery and installations for mixed animal feed, premixes, additives, fish feed, pet food, flour mills and the processing of oilseeds.

## Procedure

Our engineering and project management department plays a central role in our organization. They safeguard our standards, procedures, initiate improvements and monitor developments in technology and legislation. At their disposal are decades of accumulated expertise acquired by Ottevanger Milling Engineers on successful customer projects. Our know-how and skills are continuously improved by regular training.







Conventional plants



Megamix Premix Plant, Russia

## Conventional plants

Ottevanger Milling Engineers specializes in the design, manufacture and supply of machinery and installations for the grain processing and animal feed industry.

We focus on turnkey projects, in which complete installations are supplied tailor-made to meet the requirements of the customer. All Ottevanger installations can be optimized to suit specific situations and requirements. Most of the equipment is manufactured in-house in order to have full control during the construction of the project.

We design solutions based on proven concepts and new ways of thinking with the aim of creating an innovative project design. In doing this we devote a great deal of attention to safety, hygiene and energy consumption.

Ottevanger Milling Engineers has over 100 years of experience in building feedmills and machinery. Our installations, which are used every day worldwide, are proof of our skills and expertise in the production of feed mills.

Rothkötter Mischfutterwerk, Germany



Miratorg FM 4  
Russia



Pets Agroindustrial  
Dominican Republic



Pilmico Foods Corporation  
Philippines



Modular solutions



### Containerized feedmills

Several decades ago Ottevanger Milling Engineers began the development of compact preassembled installations for a variety of different processes. These modular installations are designed and assembled in standard 20ft containers that are easily transported over land or sea, with a short installation time on site.

These containerized mills are available for:

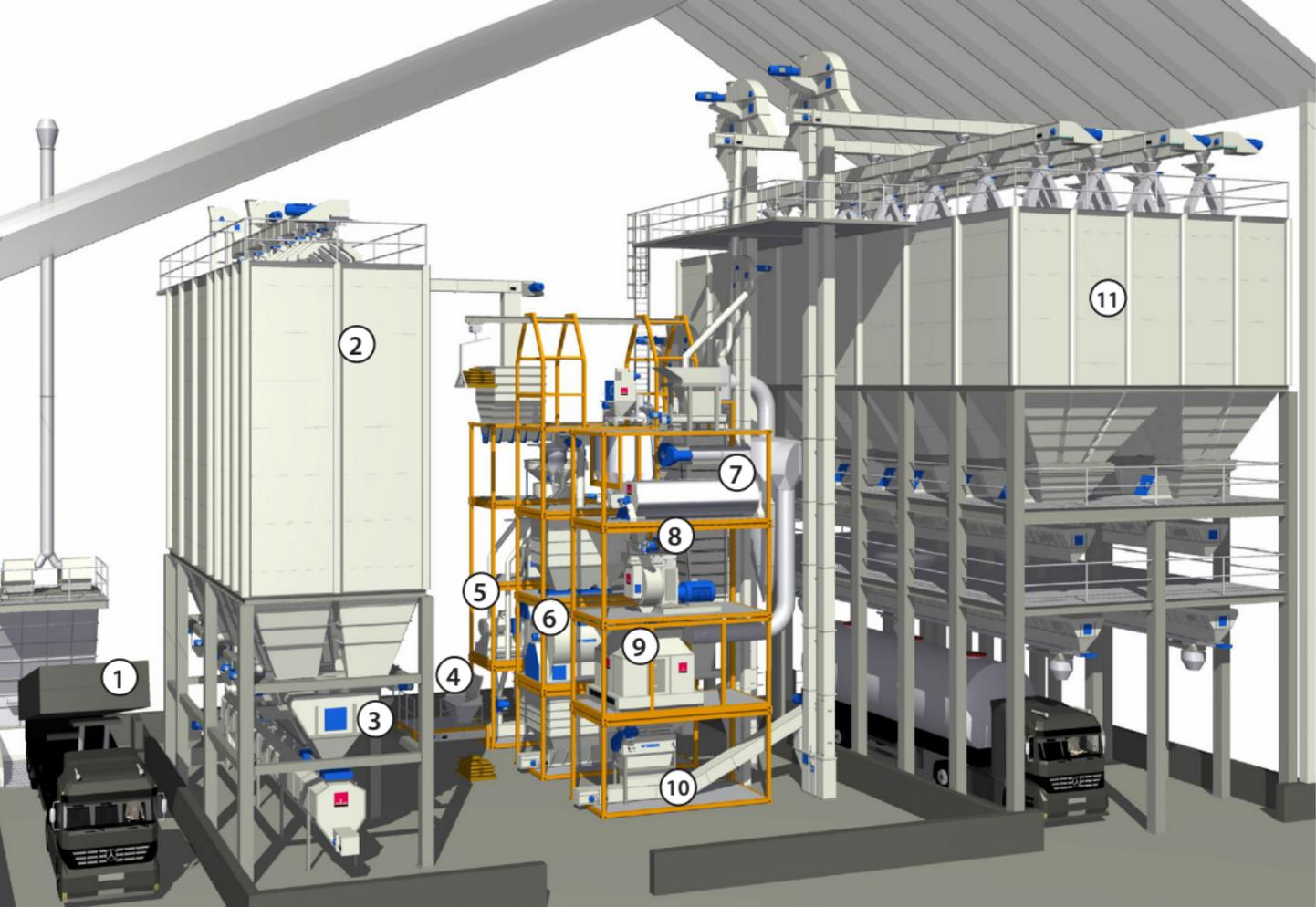
- » Animal Feed Processing
- » Pet Food Processing
- » Aqua Feed Processing
- » Oilseed Processing
- » Soybean Processing
- » Premix & Concentrates



Sa Beang 111. Co, Thailand

### Benefits containerized feedmills

- » All components are reliable and tested
- » Minimum installation time on site
- » Low freight costs and easy handling
- » Complete with support frame
- » Complete with all electrical- and compressed air systems
- » Assembled and checked in our factory before despatch
- » Low building and energy costs
- » Proven concept with many outstanding references



1. Raw material intake
2. Dosing/blending bins
3. Macro ingredient weighers
4. Tipping hopper
5. Grinding section
6. Mixing section
7. Conditioning / Thermal treatment
8. Pellet press
9. Cooler
10. Crumbler
11. Finished product bins





Processes

## » Compound feed

Over the years Ottevanger Milling Engineers evolved into a company highly experienced in the design, manufacture, installation of equipment and maintenance of animal feed plants worldwide.

Our own developed equipment has turned into a very comprehensive range of high quality and efficient machines. These machines are used to build a complete animal feed plant.

Starting at the intake of raw materials up till the finished product section and even including electrical control and automation. Ottevanger Milling Engineers feed milling solutions and installations are focused on functionality, engineering design and manufacturing craftsmanship.



## » Soybean processing

Full fat soya is an important protein source to feed poultry, ruminants, pigs, rabbits, fish and crustaceans. The availability and utilization of soybeans is improving because of new growing methods.

The improved circumstances for growing, storage and processing of soybeans is causing a variation of full fat soya. Ottevanger Milling Engineers offer various methods for the processing of soybeans. The most effective soybean processing method consists of a combination of heat treatment and crushing.



## » Premix & concentrates

A very long history in the industry gave Ottevanger Milling Engineers the experience and expertise to supply tailor-made solutions for the complete spectrum of premix & concentrate applications.

Our equipment for premix and concentrate plants meet and exceed international standards in terms of design, hygiene, safety and efficiency. Innovative designs result in exceptional mixing accuracy and finished product quality. A state-of-the-art engineering layout and process control design leads to negligible cross contamination. Ottevanger Milling Engineers has an optimized premix and concentrate solution for any application from intake to packaging or bagging.



## » Oilseed processing

Both chemical (solvent extraction) and mechanical (steam conditioning; expansion; extrusion; mechanical oil expelling) methods are used to process oilseed. Chemical processing makes it possible to minimize the residual oil in the resulting oilseed meal. Mechanical Processing maximizes the efficiency of thermal treatment and the digestibility of protein, fat and fibre.

Ottevanger Milling Engineers has a very long history of supplying processing solutions to the Oilseed Industry. We take great care in assessing project expectations first before specifying an appropriate processing technology.



## » Aqua feed

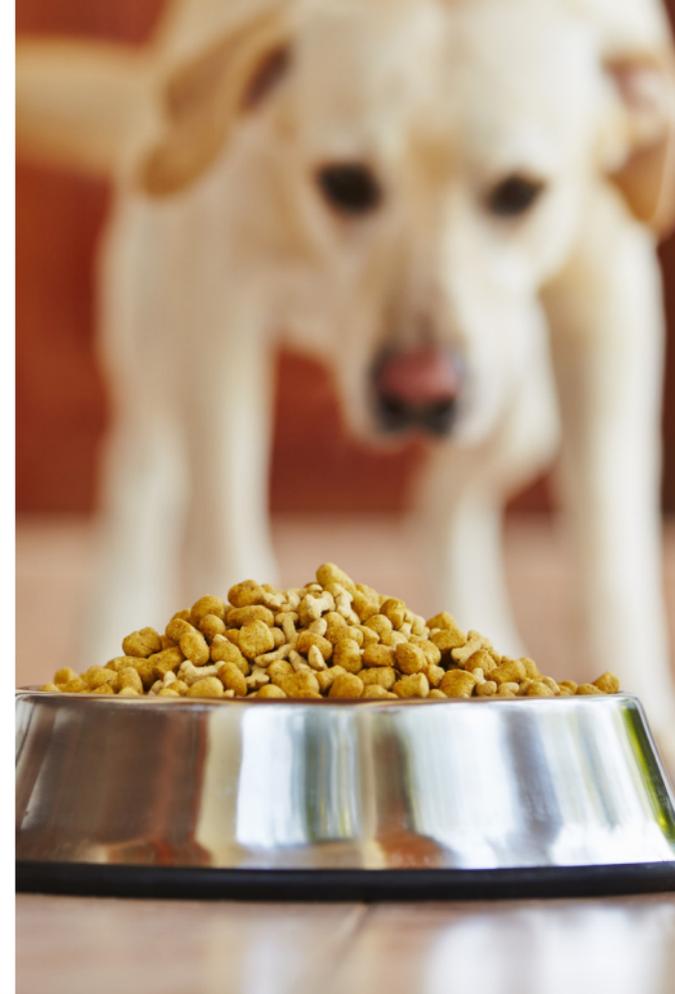
Aqua feed has very high requirements in terms of both nutritional and physical characteristics. These nutritional and physical requirements are determined by the life stage of specific species. The challenge is to achieve all of these while having a negligible effect on the environment.

Ottevanger Milling Engineers keep these and other project specific issues in mind when designing an aqua feed processing plant. The choice of equipment, technologies, processes and equipment is therefore the key to success.



## » Pet food

At Ottevanger Milling Engineers we acknowledge and understand how trends in the pet industry impact the design of pet food processing solutions. Over the years we took great care in developing technologies and equipment that meets and exceeds the growing demands of the global pet food industry. We take time in consulting with customers to ensure we fully understand customer requirements, more specifically the requirements of the market that our customer is serving.





Process equipment



Fane Valley, Ireland  
2x Single Shaft Paddle Mixers PM8.000

## Solutions for

- » Conveying and Discharging
- » Cleaning
- » Dosing
- » Grinding
- » Milling & Structurizing
- » Mixing
- » Conditioning
- » Pelleting
- » Extrusion Systems
- » Drying & Cooling
- » Crumbling
- » Sieving
- » Coating
- » Storage and Handling
- » Automation



Conveyors

» Cleaning



» Pre-cleaners

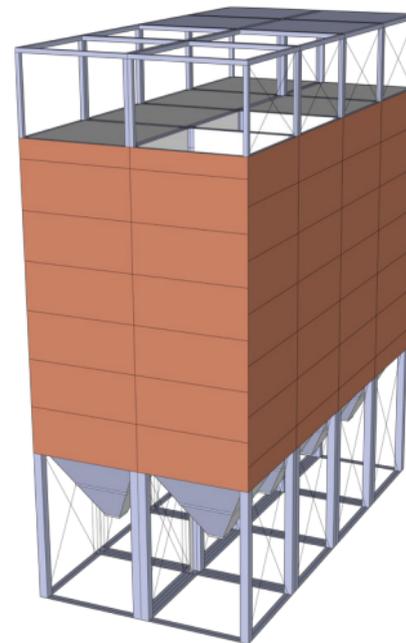
» Pipe magnets





Batch weighers

## » Dosing



» Dosing silos



» Micro-ingredient dosing systems

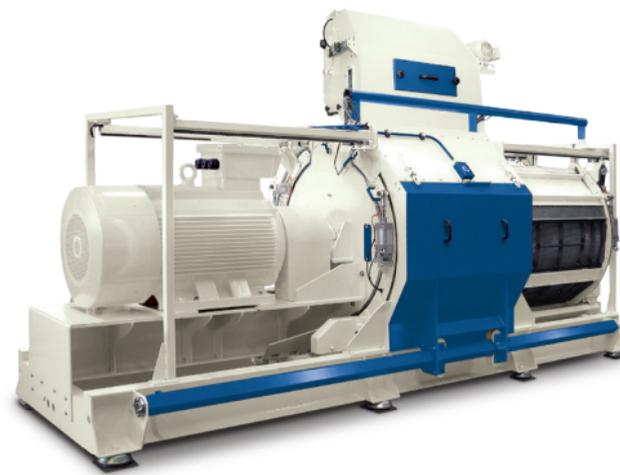
» Grinding



» Hammer mills 650



» Hammer mills 670



» Hammer mills GHM



» Hammer mills GHM HE-Serie

HIGH EFFICIENCY  
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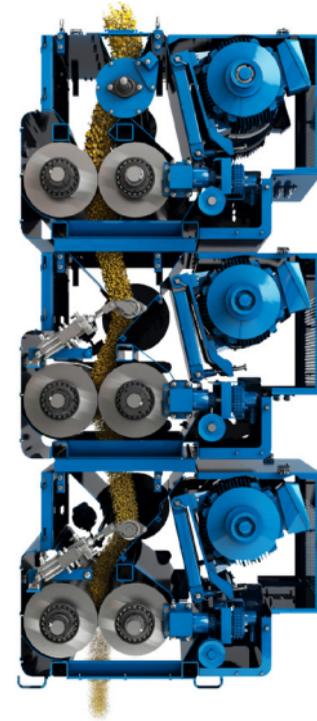
## » Milling & Structurizing



» Roller Mills HE-Serie

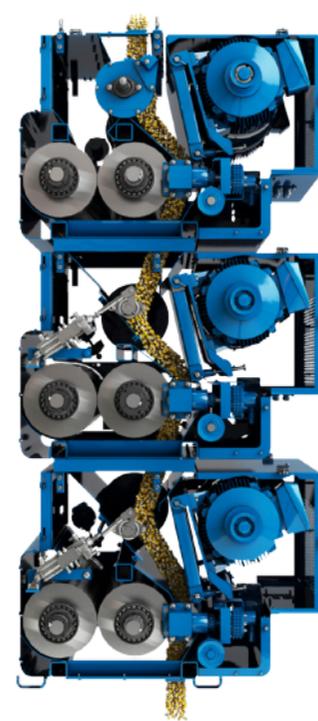


Use of all rollers



Fine material

Use of by-pass



Coarse material

» Mixing



» Paddle and Ribbon mixers



» Double shaft paddle mixers



» Vertical mixers

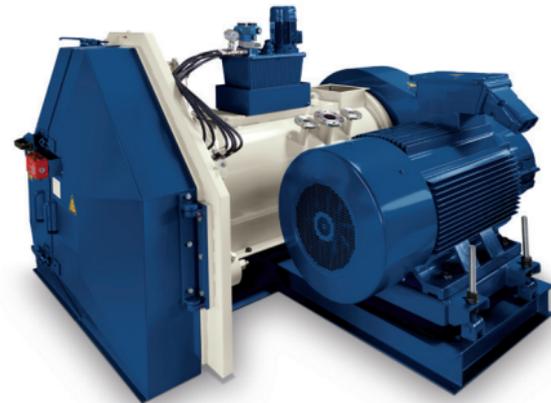


» Continuous mixers

## » Conditioning

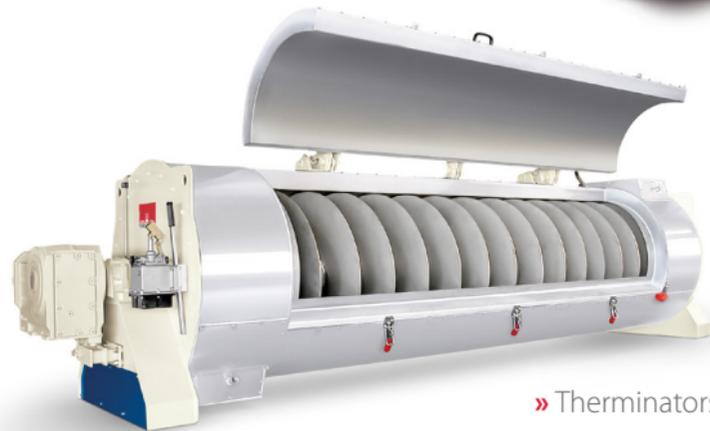


» Conditioners



» BOA Compactors

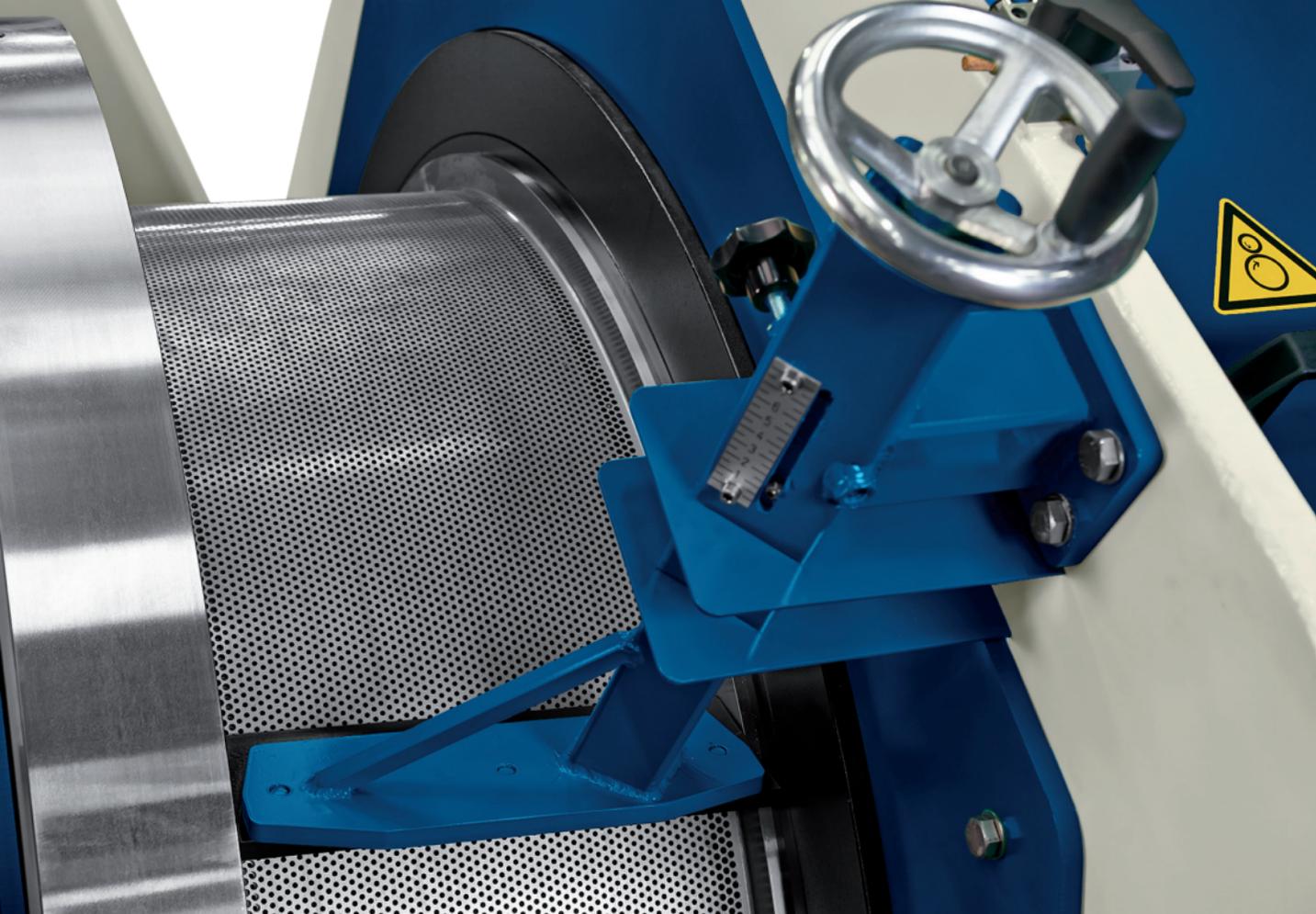
## » Temperature Control Systems (TCS)



» Therminators



» Retention Time Barrels (RTB)



» Pelleting



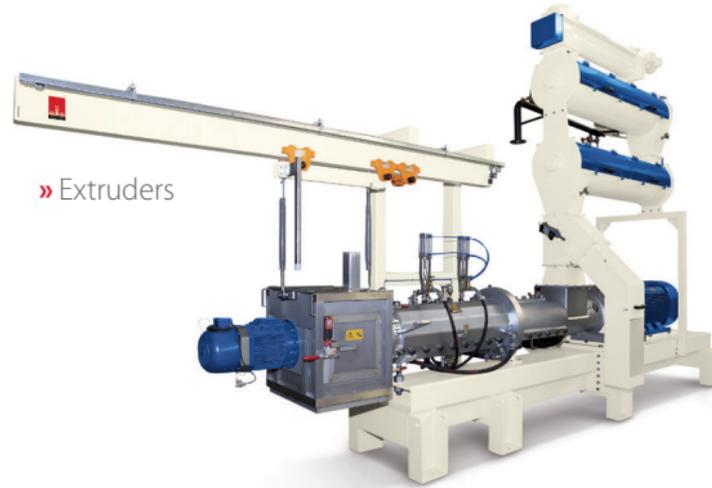
» Progress pellet mills



» Progress MonoRoll HE-Serie

HIGH EFFICIENCY  
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## » Extrusion Systems



## » Drying & Cooling



## » Crumbling



» Crumblers



» Crumblers *HE-Serie*

**HIGH EFFICIENCY**



## » Sieving

» Cryloc rotary screens



» Vibrating sieves



» Coating



» Continuous coaters



» Vacuum coaters



## Bulk storage and handling systems

Fakieh Feed Factory, Saudi Arabia



## Storage and handling

Ottevanger Milling Engineers supplies and constructs high quality silos designed to store bulk goods. Successfully completed projects all over the world stand testimony of our skill and expertise. The basis of our system is formed by standardized square or rectangular steel panels. This concept allows unlimited configuration possibilities.

### Solutions for:

#### » Square Silos

- › *Smooth wall silos*
- › *Profiled wall silos*
- › *Hoppers and bunkers*
- › *Silo roofs*
- › *Steel support and roof constructions*
- › *Roofing materials and cladding*

#### » Cylindrical Silos

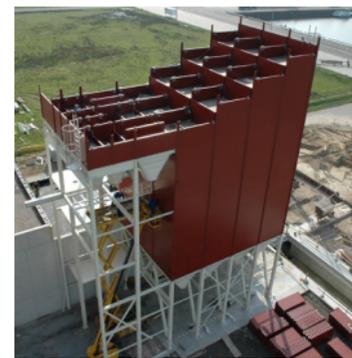
- › *Smooth or corrugated wall*
- › *Flat floors with discharge equipment for silo unloading*
- › *Conical-bottom silos*



**Sa Beang 111 Co.**  
Thailand



**Mainfeeds**  
New Zealand



**Rothkötter Mischfutterwerk**  
Germany



Electrical control and automation



## Electrical control and automation

Process automation requires insight into your entire process; into knowledge of your application and even your industry. Inteqnion is a sister company of Ottevanger Milling Engineers and specializes in control systems and automation for the feed, flour and bulk industry. Inteqnion's software engineers work on a daily basis to improve automation of feed mills from all over the world.

We offer the following solutions:

- » PLC engineering & programming
- » SCADA visualization
- » SCADA touch panel control
- » MES integration
- » Industrial Networks (*Profibus, Profinet, ASI, Ethernet etc.*)



Worldwide references



Miratorg FM3, Russia



**OTTEVANGER**  
MILLING ENGINEERS



Ottevanger Milling Engineers

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