



Partnercompanies



Van Mourik

Van Mourik Smart Milling Engineers was responsible for the (partial) project management of the new second line of Feed Design Lab, the engineering (flow diagram and layout) and the assembly for this line. As an independent partner, since we at Van Mourik do not supply the process machines ourselves, we also supported FDL with the technical choices for the installation.



Actemium

Actemium has renewed the complete process automation at Feed Design Lab and has introduced the smart pelleting control "APC" (Automatic Pelleting Control) for the renewed pelleting and extruder line. With this, Feed Design Lab has more control over the process and more quality data is registered. This guarantees the correct feed quality and digital registrations of process data. As a system integrator, Actemium supplies the interfaces for integration with other suppliers. As a result, the entire system will function as a whole.



Dinnissen

Dinnissen designed and developed a special screw conveyor, which is carried out with an easy removable screw shaft on a guiding system. The screw conveyor is designed with a single side bearing, which also makes it easier to clean. With this special screw conveyor, another innovative unit is combined into the extrusion line 2 of Feed Design Lab.



Cr8las

Cr8las Group was responsible for the modifications and renewals of the construction and floor parts. All assembly, welding and construction work has been carried out under NEN EN 1090 qualification. The engineering of the construction, 3D scanning and detailed calculation, was also carried out by Cr8las Group.



IVS

IVS Dosing Technology supplied and installed the steam and water dosing installations on the new extruder / press line. Our steam dosing set ensures perfect steam quality, which in turn results in high-quality end products for the customer. Isolating the various cyclones and pipe / tube work which was also carried out by IVS. Isolating is also one of the core activities of IVS.



Armstrong

Armstrong Steam Harness is a properly sized and engineered solution providing with real-time monitoring and notification of up to 15 key thermal and operating parameters that can impact the reliability of the feed production and system performance. This includes industry 1st critical components capable of measuring steam quality (% dryness fraction) and flow rate (no straight run requirement) in a compact footprint. The steam harness is targeted towards improving steam quality and overall production efficiencies.



Arco

The state-of-the-art production line is equipped with a flash off conveyor belt, developed by ARCO Solutions. The flash off conveyor belt collects hot and oily granules. By collecting and transporting the granules via the flash off conveyor belt, breakage is minimal. In addition, a module has been installed on the conveyor belt that takes temperature and gases from the granules off very quickly so that they do not stick.



CPM

The CPM pelletmill is now producing with a reduced roller width downsizing the number of holes in the die by 50%. It's now a true match with the renewed test line capacity.



DMT

Our technicians have decades of experience in overhauling and updating almost all brands of presses on the market, Dutch Milling Technology has also realized the adjustment of the die in the press of Feed Design Lab. Our replacement method is unique, we can draw from "stock" essential parts for almost all common presses, including our own Taurus press.



Geelen

The Geelen Counterflow batch dryer facilitates the processing of small batches and quick change-overs between different products. Controlled and hygienic drying with high energy efficiency, combining the inherent advantages of counterflow heat exchange with gravity flow for product transport.



Rotodyne

Rotodyne supplied the fan for the steam extraction. During extruding, the flash off of the steam above the extruder's knife head is extracted. This fan also extracts the Arco flash off belt.



MANCHETTEN &
COMPENSATOREN

Euromanchetten

Polyurethane flexible connectors guarantee optimal hygiene in the production process; besides easy to clean they are wear resistant and thus suitable for all types of pellets and granulates. By experimenting with various badges and products there is no standardization in the process, meaning blockages will maintain forming a risk. A transparent sleeve can offer a solution, making it easier to track blockages in the process line.



Van Doren Engineers

Van Doren Engineers is a technical solution partner for all installation works, engineering, cabinet building and service. For the new make-over of Feed Design Lab production line we have been asked to make all the installation works and connections for the existing and new machinery and finally coordinate the commissioning successfully.



VDL/Jacob

Within the test factory of Feed Design Lab, we are responsible for the stainless steel piping of the Jacob brand, which connects all machines together and is therefore an essential part for this high-quality installation. In addition, we have applied our VDL Rotary valves in collaboration with the company Geelen, with extra attention for our quick-disassembly rotary valve for efficient maintenance.



RZB

With the Planox Eco fixture, RZB lighting has achieved energy savings of no less than 53% on the energy costs of the lighting. The light output is also significantly higher. A FARM version is also available in the Planox Eco series. This is ammonia resistant and is DLG approved.



Ottevanger/PTN

Triott and her partners designed and developed a new 2 tph conditioning test-line at FDL. After dosing, the product enters a PTN Hot Start Conditioner (TSC). A TSC is a closed, insulated and heated mixing chamber in which a mixture is heated and mixed with dry steam by a shaft which can rotate in two directions "to create a start-up and a continuous production process". The product is released when the desired temperature is reached.

After the TCS the product enters the heated and insulated Retention Time Barrel (RTB). The product remains here during a pre-set length of time (maximum four minutes). Alternative routing is to by-pass the RTB through a heated and insulated feeder screw.