ENGINEERING CJW PROCESS SYSTEMS

C J Waterhouse Co Ltd

MATERIALS HANDLING ▼ WEIGHING SYSTEMS ▼ PROCESS SOLUTIONS
PLANT CONTROL ▼ BESPOKE MACHINERY ▼ AUTOMATION
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Case Study
Animal Feed Plant - Belgium

CJ Waterhouse Co. Ltd's provides turn-key Animal Feed Production plant for Belgium.

C J waterhouse Co. Ltd. Has recently completed its contract to design, manufacture and install a complete turn-key mixer feed system for an American feed supplement manufacturer at its new Belgium plant.

Our customer is a global leader in the manufacture of equine feed supplement's and has recently acquired a new production site in Klerken Belgium close to its raw material processing plant in Werken Belgium. Following previous upgrades to the UK plant in 2006 C J Waterhouse were awarded the contract to provide the entire mixing line for the new manufacturing facility.

Material storage & discharge
Weighing & transfer
Blending
Packing

Raw materials supplied by tanker are stored in two bulk silos located outside adjacent to the building. Bulk bag materials are handled by three FIBC discharge stations with overhead gantry and power hoist system and sack materials are fed into the system via either the Comav automated sack emptying machine or via the manual sack tip station.

Each bulk silo feeds directly into its own dedicated 2 T weigher via inclined screw feeders. The third weigher accepts it's feed from the three FIBC stations and both the auto sack slitter and the manual sack tip station.

The weighers are fitted with full length discharge feeders which move the weighed batch of material to the downstream vibratory sieves to remove impurities.

The sieved material is then fed into the lean phase conveying system via 3 Comav rotary valves. Batches are then transferred through 3 conveying lines to the high level mixer. The conveying system uses three separate blowers with bespoke manifold system to permit routing of transfer air from any source to any destination line.

On completion of the mixing sequence the blended product is discharged into the dump hopper located beneath the mixer ready for its use in the downstream packing systems. Dropping the batch into this hopper frees up the mixer ready for the next pre-weighed batch to be transferred.

From the dump hopper the batch is then elevated using an inclined screw feeder and dosed to one of two packing lines via a twin discharge transfer screw. The first discharge point allows product to be fed to an automatic bulk bag filling station while the second discharge point feeds the clients existing bagging line.

The system was designed and engineered to give a finished product throughput of 12 T/H and not only increases the customers production, batch consistency and traceability but also strengthen their already dominant hold over the European market.

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