FLOUR MILL PROJECT

160TPD Wheat Flour Mill Plant in New ZEALAND

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Project Summary

In Jan 2016, we have successfully finish a New Zealand project. It is a 160T wheat flour mill. This project is consist of 160T wheat flour mill, a four-storey steel frame workshop, 250T*4 wheat silos, 7 flour & bran tanks , fully-automatic packing system.

Wheat Silos

To collect enough wheat for short-term producing and make sure stable feeding for flour mill, we designed wheat flour silos for our customer.

Characters are below:

- ✓ Galvanized steel plate, rust, good waterproof and air-proof
- ✓ Efficient temperature control system
- ✓ Steel structure support, simple and beautiful
- ✓ Efficient with wheat system, meet the needs for different flour
- ✓ Accordance with the requirements of New Zealand ladder and rail.

250T*4 Wheat Silos

250T*4 Wheat Silos

250T*4 Wheat Silos

160T Wheat Flour Mill

The flour mill is fully automatic system, including temper bins, second cleaning machines, wheat washing &dampening machines, flow weighting, milling, sieving sections, to make sure our customer to produce top flour for his local market.

Characters are as below :

- ✓ Custom-made flow process
- ✓ High efficient and energy saving flour mills, with frequency control and automatic feeding system
- ✓ Cable and all electronics conform to the requirements of the Australian and New Zealand standard, all electrical appliances meet IP54 requirement, isolation switch.
- ✓ Specially suitable for durum
- ✓ Advanced PLC control system, including AB components, voice alarming motor-misfunction system to report the exact motor name and circuit in cabinet, intelligent statistical production situation for each shift.

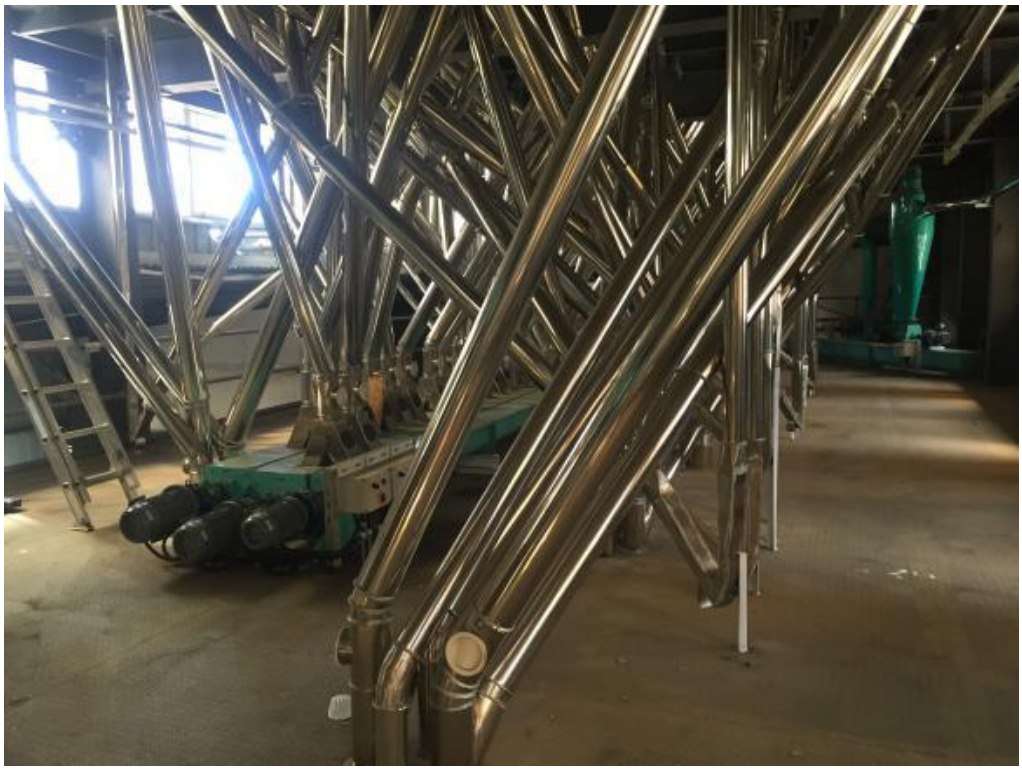
Electric Control Cabinet

Flour Mill

Flour Mill

Wheat Dampening Computer Control System

Stainless Steel Pipe



Wheat Input Pipe

Flour Plansifter

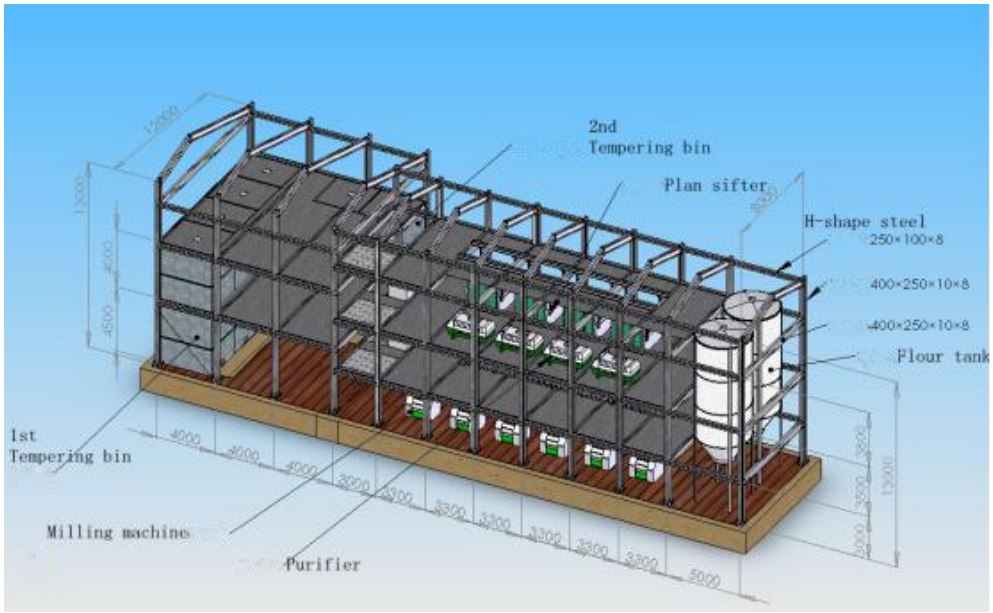
Steel Frame Workshop

To conform with our machinery better, our customer choose to order steel-frame workshop from us, not from local supplier.

Characters for workshop are below:

- ✓ Nicely design out-looking
- ✓ Customize according to customer's flour mill equipment
- ✓ Conform to the requirements of the New Zealand building, especially bearing columns, stair railing, protection rail
- ✓ Pass the international SGS inspection before shipment
- ✓ Nine earthquake resistance

Design Drawing of Steel Frame Workshop



Steel Frame Workshop Installing

Completed Steel Frame Workshop

Flour and Bran Silos

Flour and tank silos are designed for two reasons. One is to store flour before packing, make sure packing feeding is stable. The other is to keep flour short time for wholesale for big customers. All feeding are controlled by PLC system, so flour and bran feeding can switch easily between tanks.

Characters are below:

- ✓ Pneumatic conveying, efficient and clean
- ✓ Steel structure support, tanker can drive underneath and load directly
- ✓ High and low level warning system
- ✓ Vibration feeder, to prevent clogging
- ✓ Manual button control discharge, convenient observation of powder material level of tanker.

Flour Tanks

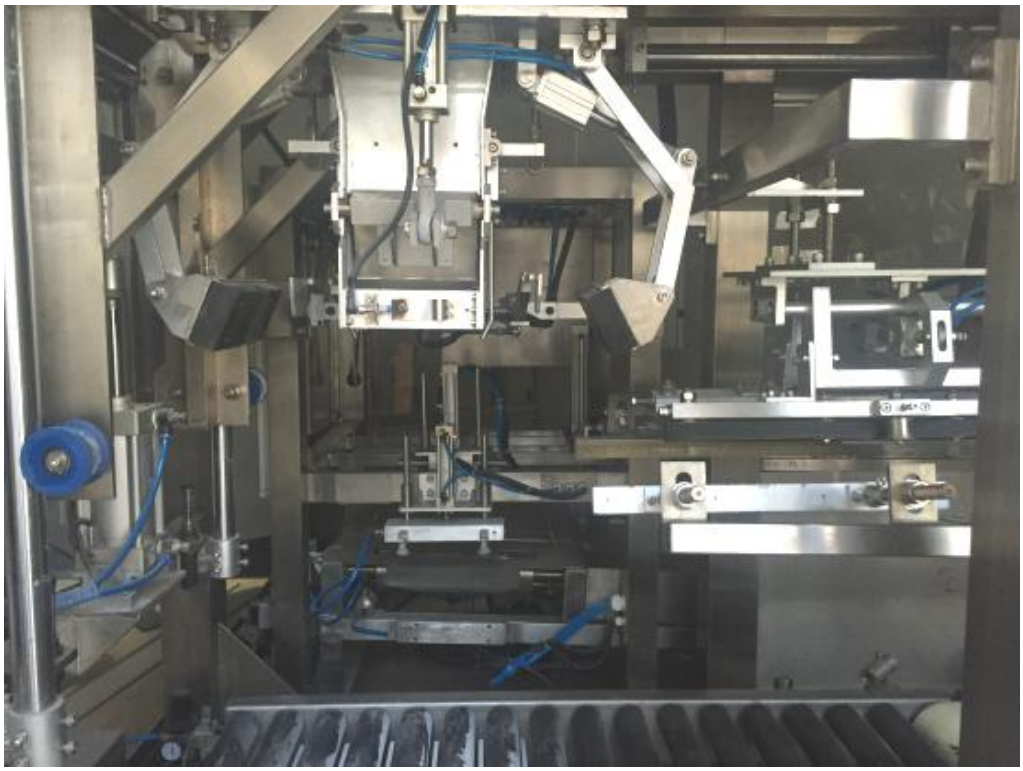
Fully Automatic Packing and Stacking System

This line adopt newly designed automatic packing and stacking System save labor and maximize efficiency. The automatic packing system include bag feeding, auto flour filling, bag heat sealing, mental detaching functions. Then there would be robot to pick up packed bags and location on pallet efficiently and correctly.

Characters are below:

- ✓ Labor saving and high efficient
- ✓ High accuracy, weighting error below 0.2%
- ✓ Metal detecting and eliminating device, control sales of flour quality
- ✓ Security fence to ensure the safety of personnel when working
- ✓ Wrap film system, fixed tray, ensure transportation safety

Packaging Machine Internal Structure



Packaging Machine Mechanical Arm