

Job Title:

**Design, Project Co-ordination & Automation**

Company:

**Teelings Whiskey**

Location:

**New Market, Co Dublin**

Duration:

**12 months**

Objectives:

- **Design & automation of distillery**
- **Overseeing Equipment & plant commissioning**
- **Supplier & Sub-Contractor co-ordination on project details**

The Teeling Whiskey Distillery is the only operational distillery in Co.Dublin. They completed the construction of a fully operational triple distillery in 2016.

The aim behind the Teeling brand was to make a traditional Irish triple distilled whiskey, while bring back a unique blend/craft to the product. From the design scope and the clients requirements the plant was constructed to fit three pot stills ranging in size from 150 hL to 75 hL, these were supplied from Frilli.

The plant and in particular the Brewhouse tanks & pipe work were supplied by Spectac. A combined total of 20 tanks were supplied, and countless meters of pipework was installed. Finally Krones werk Steinecker supplied a 150 hL Lauter tun & 5 tonne Variomill.

MW Control Solutions were originally brought in to provide a software package for the automation of the plant & the electrical installation of equipment in the agreed areas (Krones provided their own electrical equipment for the Lauter Tun & Variomill). Part of our scope was to complete a full I/O testing & commissioning of the plant.

Equipment installation & plant construction were scheduled on the same time, & with three OEMs looking to complete their commissioning process, provided a difficult and congested plant, and the approach from the client was to arrange site visits for each OEM as soon as possible.

MWCS project involvement evolved, and began to implement clear schedules for commissioning visits and acting as a link between client and OEM. The co-ordination of site visits was to:

- Provide the construction contractor on the plant areas where works should stop and allow any commissioning to carry on uninterrupted.
- Throughout the project Frilli & Krones had three commissioning visits. MWCS put site schedules in place to ensure the scope of work for each OEM was completed in the timeframe. With dedicated time spent between OEM & MWCS, work was complete ahead of schedules, and enable discussions on future site visits.

Since Teelings wanted to have a unique craft to their blend, the programming of a whiskey recipe & the creation of equipment settings was a critical part of our scope. MWCS acted as a link between client & OEM so any ideas could clearly be communicated.

- The client was able to provide us with a rough method on how they would like the equipment to run. Linking up with the OEM and discussing the automatic process programed into the software enable a smoother commissioning process.
- Over time as MWCS got involved deeper in client and OEM relations, any faults found in the equipment processes which were identified, the input from the OEM became more direct and efficient.

Over the course of the project the client did not have a site manager or a contractor contact. The fact that the equipment installation clashed with the general building construction provided many problems when it came to commissioning, lack of water supply, lack of drains etc, proved the project was behind on schedule but the client were pushing forward constantly.

MWCS had to provide a strong co-ordinator link for client and OEM. As time progressed, and a plan was put in place by MWCS, a coherent commissioning plan was put together. From construction interrupting the commissioning to the plant being handed over on time, with no injury or massive hassle, was a big improvement to the projected rate of completion when MWCS started on site.

Implantation of new program for Brewhouse:

- Water brew system to rinse individually each vessel of the Brewhouse. This system allows the customer to rinse the Brewhouse between change of colour of beer while in production. (dark beer to clear beer). MWCS approach the project with customer to see what was required as different solution or way to do was possible. With the system in place the customer can now save more than 5 hours between change of colour.