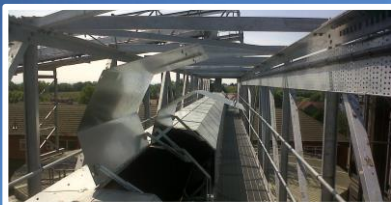


# GRAIN HANDLING BELT CONVEYORS WITH FIRE DETECTION SYSTEM



Following a process fire, **Don Valley Engineering** were asked to replace the 2 main plant conveyors, totalling over 150m, to urgently bring the plant back to full operation. A number of improvements over the previous conveyors were designed and implemented by Don Valley engineers to ensure the previous issues were not repeated

<b>Client:</b>	A UK Maltster
<b>Location:</b>	Berwick
<b>Duration:</b>	28 weeks
<b>Completion:</b>	August 2011
<b>Value:</b>	£295,000
<b>Contract</b>	MF1 (Rev 6)



- Refurbishment of fire damaged equipment
- Improved safety through fire detection and sprinkler systems
- Multi-crane heavy lift operations
- Tailored working program to comply with production schedules

The plant, one of the largest maltings in the UK, had an extension of 100,000Te completed in 2009 by Don Valley Engineering. The conveying element was a separate contract and one of the key elements was a 105m long reversing conveyor taking raw material from the existing plant and returning processed malt. The conveyor caught fire due to a rubber skirt coming into contact with the drum shaft and setting on fire dust collecting in a badly designed chute. This spread to a further conveyor feeding one of the new vessels

DVE were tasked with designing and supplying a reliable, safe replacement design.

- The new conveyor included
- More hygienic chute design
  - Improved seals and external drum bearings
  - Manually actuated head chute water sprays
  - Full length fire detection cable
  - Improved cover design with full length access for cleaning /inspection

As the conveyor is a critical component in 100,000Te/annum of production the taking down of the old conveyors and gantries and installing the new was carried out to a very short duration, carefully planned programme

