

# DEFYING GRAVITY

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## CONVEYED PRODUCT

- Spent grain

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## KEY SPECIFICATIONS

- Totally enclosed system from mash tun to trailer
- Specially designed pump to fit under spent grain silo
- Improved hygiene, health and safety

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## COST SAVINGS

### LOW RUNNING COSTS

### CLEANER OPERATION

### ENHANCED PRODUCTION

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## PUMP TYPE

BT 110-12T

## BACKGROUND

Wadworth & Company is a regional brewer with a widespread and well founded reputation for producing exceptional beers. The brewery is a traditional tall tower type where the brewing ingredients are lifted to the top and gravity utilized during the following process stages.

## TASK

A SEEPEX BT pump was already conveying spent grain from the mash tun to the top of the storage grain silo. From the silo, the grain was gravity discharged into a trailer and used as animal feed by a local farmer.

The issue was that the spent grain silo was located in the heart of the brewery. There were frequent vehicle movements through the center of the brewery yard to remove spent grain from the silo discharge, which was a grave health and safety concern for Wadworth. SEEPEX experts found a solution.

## SOLUTION

A SEEPEX BT 110-12T open hopper pump was raised and installed under the discharge valve of the silo. The pump moves the spent grain from the silo at a rate of 28 m<sup>3</sup>/h to a discharge point approx. 40 meters away, thus allowing rapid loading of trailers in a segregated by-product area. The pump has proved to be reliable and have low running costs compared to alternative compressed air systems.

The re-routing of the spent grain has removed the need for vehicle movement within the brewery yard with subsequent improvements in health and safety. In addition, hygiene has been improved by containment of the by-products within enclosed pipework.

## BENEFITS

- Improved hygiene
- By-product discharge contained in a single area

