

# Case Study

## Helical Bevel Unicase Gear Unit



### INDUSTRY

Wool Processing

### PROBLEM

The existing belt driven worm box was nearing end of life and our customer needed a replacement. The worm box was inefficient and required a belt drive on the input to provide additional reduction beyond the capability of the worm box.



### APPLICATION

Wool Naturaliser

### SOLUTION

BSC recommended the Nord helical bevel unicase gear units providing a high efficient alternative. The range of reduction ratios possible with the Nord helical bevel series meant that the belt drive could be removed. The high efficiency of the Nord helical bevel gear unit meant the required motor was half the power of the existing motor.

### BENEFIT

The benefit was the customer reduced the motor from a 1.5kW motor to a 0.75kW motor, halving their power consumption and carbon emissions. With more of the old wormboxes installed onsite, the energy savings potential is high.

