

Application case study

UNMATCHED EXPERTISE IN GEARING



Machining

Hobbing machine

When a gearing specialist company wanted to updated an old line shaft-driven Gould & Eberhardt gear cutter, Cone Drive had the answer.



engineered to keep you moving

WhisperDrive : Series W Servo Precision Gearhead

Originally driven by a system of line shafts, the equipment dated back to the early nineteen hundreds and was still capable of cutting gears accurately and efficiently although it needed its drive system to be replaced. A previous attempt had been made which involved fitting a separate gearbox on top of the built-in gear set, but this solution was far from elegant in appearance and inefficient in terms of its performance.

Cone Drive's gear sets were identified as the only units on the market that had sufficient compactness and capacity to provide an all-in-one solution as well as guaranteeing the necessary low backlash. As a result the intricate original housing of the hobbing machine could be retained and the Cone Drive set neatly fitted inside.



If anyone could take a venerable old Gould & Eberhardt hobbing machine – a device which is used in the manufacture of gears - and adapt it for the needs of the twenty-first century, then that team had to include Cone Drive. The customer provides the highest quality in new and reconditioned machines, offers CNC retrofitting services, custom gear cutting and a team of experienced service technicians.

Cone Drive worked closely with the client to make the gearing fit the non-standard eleven inch centers and fit their tight envelope requirement. All the measurements and tolerances were followed closely and the result was a finished unit which removed all the backlash created by the eccentrics. The first Gould & Eberhardt hobbing machines to be converted in this way will be used to cut gearing for wind turbines.

The high capacity and compactness of Cone Drive were the characteristics that won this order – and both are a direct result of its double enveloping technology. As well as being an extremely neat solution to this particular challenge the units also offer high shock load capacity and are extremely quiet and smooth in operation as the name suggests.

As a Textron company – the group with the broadest range of gear units in the world – Cone Drive was also able to help the client by supplying in Series W Whisper Drives that were used for the feed table.

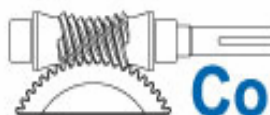
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