

CUSTOMER TESTIMONIAL GEAR HOBBING

The ARTIS CTM In-Process Monitoring System reduces tool costs for gear hobbing machines

INDUSTRIAL SITUATION

Liebherr gear hobbing machines are used to cut gearwheels during engine production at a major utility vehicle manufacturer.

DEPLOYMENT

Monitored and non-monitored machining operations were compared using a Liebherr LC 300 and a Liebherr LC 282 gear hobbing machine.

The respective tool costs of the monitored and the non-monitored Liebherr machines were recorded and compared. The period for the comparison was six weeks. The Liebherr LC 300 gear hobbing machine was equipped with the tool monitoring system CTM with DTA.

RESULT

The comparison showed that approx. € 20.000 could be saved by reducing tool costs on a monitored LC 282 gear hobbing machine. The ARTIS system allowed tool wear and tool breakage to be detected in a timely way on the gear hobbing machine being monitored. The expense of investing in an ARTIS monitoring system was paid off within a short period of time.

CUSTOMER QUOTE

”The Artis CTM system helps us to ensure we attain the required high gearwheel piece counts each day and at the same time the system safeguards our valuable milling tools from tooth breakage. Breakage not only causes additional cost for the tool but also leads to production downtime—and in a worst-case scenario serious damage to the gear hobbing machine.”



FACTS

Machine type:
Liebherr LC300 gear hobbing machine

Workpiece:
Gearwheels for engine manufacturing

Machining operation:
Hob milling

ARTIS monitoring:
CTM - DTA