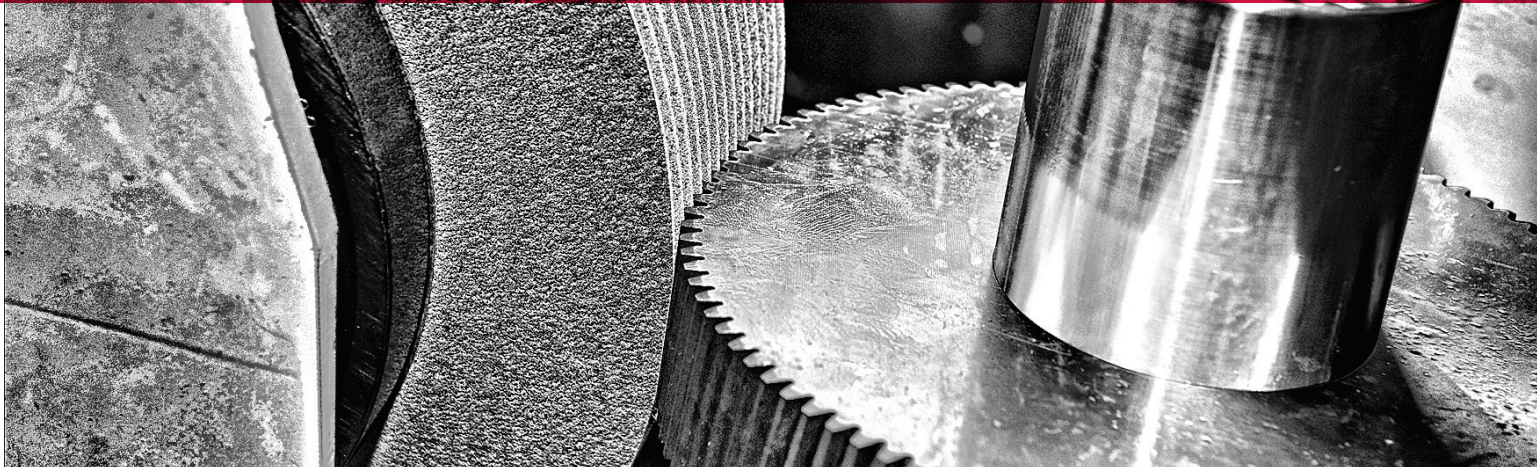


# HELICAL GEAR GRINDING CASE STUDY



## DECREASE CYCLE TIME TO MEET PRODUCTION DEMANDS

**This Gear Grinding application increased the output by 28% eliminating the bottleneck in order to meet production demands.**

**CHALLENGE:** Spike in demand for helical gears resulted in significant bottleneck in the customer's continuous gear grinding operation.

**SOLUTION:** The Weiler Industrial Grinding Team designed a wheel utilizing our new high porosity vitrified bond system that increased cutting efficiency and form retention. The higher metal removal rates and reduced need for dressing increased the output of this customer's machine by 28% eliminating the bottleneck and allowing them to meet production demands.

**RESULT:** Weiler's Gear Grinding Wheel allowed this customer to decrease cycle time by decreasing the number of passes per part and increasing the number of parts run between dressing the wheel. The Weiler team utilized the Weiler Process Solutions Tool and presented the following improvements:

Cycle Time  
Decreased

**27%**  
Decrease

Form Retention

**51%**  
Reduction in Dressing

Reduction in Passes  
per Part

**44%**  
Decrease

