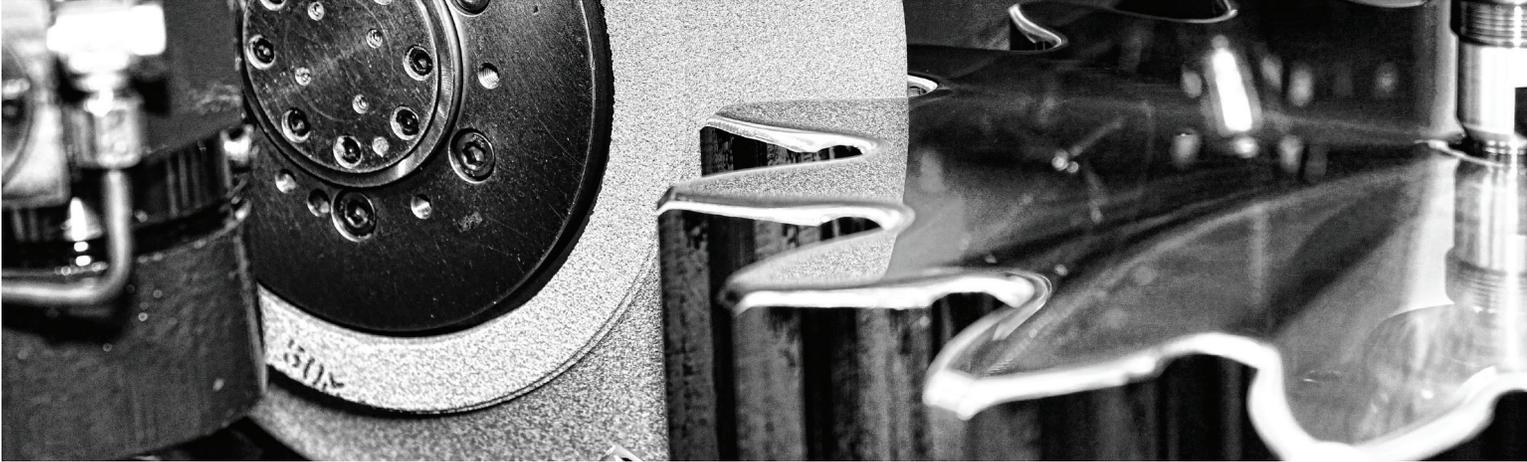


GEAR GRINDING CASE STUDY



GAINING EFFICIENCY TO MEET CUSTOMER DEMANDS

With this Single Profile Gear Grinding application, our Weiler 16 Gear Grinding Wheel helped increase material removal, reduce dressing, and cut their total grinding time by almost 50%.

CHALLENGE: This customer was looking to improve the overall efficiency of their grinding operations to overcome issues they were having meeting customer order deadlines. They consistently had a backlog at their grinding machines causing them to miss customer order deadlines and were at risk of losing key customers.

SOLUTION: The Weiler Industrial Grinding Team designed a wheel utilizing a custom blend of high performance ceramic grain with microcrystalline grain to both increase metal removal rate and improve form retention. This grain combination paired with Weiler's proprietary vitrified bond technology resulted in a grinding wheel that alleviated this customer's grinding backlog.

RESULT: Weiler's Custom Gear Grinding Wheel allowed this customer to increase overall grinding efficiency and meet their customers' demands. The Weiler team utilized the Weiler Process Solutions Tool and presented the following improvements:

Material
Removal Rate

43%

Increase

Form Retention

51%

Reduction in Dressing

Cycle Time

44%

Reduction

