

# GET StarCarb™ Fan Outperforms OEM Chromium-Carbide Fan by 4 Years at Limestone Processing Plant



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## The Situation:

A Limestone mine and processing plant was experiencing extreme wear issues with their coal exhauster kiln fans. The chromium-carbide blades were eroding and quickly losing shape, resulting in the fan not being able to efficiently move material or produce the pressure required to run efficiently. The erosion also led to structural damage of the fan causing it to become unstable, which could have potentially caused damage to the bearings and housing and even shaft failure. As a result, the maintenance crew had to change the fans out after only 12 months of use! Each individual chromium-carbide OEM fan changeout requires 36 hours of downtime, a loss of production and presents an increased safety risk.



OEM Chromium-Carbide Fan after only 12 months of use shows severe wear and loss of operational and structural integrity.

## The Solution:

Good Earth Tools Engineers partnered with the Plant Maintenance Manager and Operations Planner to develop a plan to address the costly wear issue. Their goal: to reduce wear issues and significantly extend the life of each fan. The solution was to apply GET StarCarb™ to all critical wear areas including fan blades, whizzer blades, the whizzer disc, and each leg of the spider assembly. GET's 30-year history of successful fan engineering and refurbishing expertise gave the customer the confidence to move forward with this proven solution.



GET StarCarb™ Fan after over 5 years of use is still operating with 100 % operational and structural integrity.

## The Success:

Severe wear issues were forcing the customer to change out their OEM chromium-carbide fans every 12 months, resulting in 36 hours of downtime per fan. **Five years after installing the original GET StarCarb™ fan, it has processed over 170,000 more tons of coal than the OEM fan and is still operating at optimal performance.** Another satisfied GET customer now has one less maintenance issue, can focus on other important tasks, has one less safety concern and experiences substantial operating cost savings by making the right decision to go with the GET StarCarb™ Fan!

Good Earth Tools has adapted this technology across many industries, including asphalt shingle plants, cement and lime plants, wood pellet plants, recycling, oil and gas, gypsum, and clay.