

# Good Earth Tools (GET) Tungsten Carbide Solution Outperforms OEM Steel Cleats by Nearly 400% at Recycling Facility.



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## The Situation:

A leading materials recycling facility (MRF) was seeing extreme wear on equipment at the very beginning of the company's materials separation process. The facility uses a feeder drum to provide a continuous flow of materials onto conveyors to sort materials. On the feeder drum there are 24 steel cleats that grab materials and pull them into the system. From normal operation, the edges of the OEM steel cleats wore down and became rounded in a matter of weeks. The rounded cleats worked less efficiently, leading to jams at the intake point and downtime to clear the material. Because of this accelerated wear, the cleats needed to be changed every three months, resulting in eight hours of downtime, loss of production, and an increased safety risk for each change-out.

## The Solution:

A Good Earth Tools field representative and engineers worked closely with the customer through a rigorous design and testing cycle to arrive at an optimized Tungsten Carbide wear protected part. This solution was suitable to handle not only side-to-side and direct impact for plastic and cardboard processing, but also unexpected materials such as nails, wiring and even shotgun shells that inadvertently entered the waste stream. The design was modeled after Tungsten Carbide wear protected hammers that a Good Earth Tools mining customer uses in a hammer mill.

## The Success:

The original GET Tungsten Carbide Cleats have lasted 14 months with no rounding and are still going strong! This improvement is 4 times greater than the OEM steel cleat. The Maintenance Manager at this facility was so pleased with the results that he endorsed the Tungsten Carbide Cleats for a companywide rollout to all facilities across the United States. Another satisfied GET customer has one less maintenance issue, one less safety concern, can focus on other important tasks, and is experiencing 23% maintenance cost savings by making the right decision to partner with GET to implement Tungsten Carbide Cleats.



A new steel OEM cleat and an old steel OEM cleat showing extreme rounding of corners after only 3 months of abrasion and impact.



GET Tungsten Carbide Cleat showing no signs of wear after 14 months.

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.