

HARDOX[®]
WEARPARTS

HARDOX WEARPARTS REBUILT GET



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Improving the original

Hardox Wearparts Rebuilt Ground Engaging Tool (GET) allows you to reuse your worn out cast teeth instead of replacing them with new ones. A fitting made of Hardox® wear plate, a hardened steel, is welded onto the worn tooth. The rebuilt tooth can then be installed on your existing adaptors.

The rebuilt GET system offers several benefits such as longer service life, cost savings, and a reduced carbon footprint, in addition to local employment opportunities for welders.

It is a concept that has been used by miners and contractors for years.

HOW IT WORKS – FITS IN THE ADAPTOR THE SAME WAY AS YOUR CAST TOOTH



Collect

Worn cast teeth are collected in dedicated bins.



Rebuild

The teeth are rebuilt in accordance with the HWP Rebuilt GET process.



Deliver

The rebuilt teeth are delivered to your mine.



End result

The teeth are installed in existing adaptors and you are ready to dig again.

FOUR REASONS TO GET YOUR TEETH BACK IN SHAPE WITH HARDOX WEARPARTS REBUILT GET



1. Cost effective and sustainable choice

By extending the service life of the original tooth, you can **cut costs and reduce your carbon footprint**.



2. Improved design and superior service life

Hardox wear plate is equally hard throughout the thickness of the plate. This means that the fitting will deliver the same wear resistance during the plate's entire service life. Furthermore, the tooth will self-sharpen, providing **better penetration**.



3. Customized and flexible

Every mine site is different and requires tailor made solutions. Hardox wear plate ensures **easy customization** of the GET to meet your specific requirements, no matter what type of adaptors you have. With the rebuild process, GETs can be installed on your current supplier's adaptors with **no modifications required**.



4. Availability and user friendliness

You are no longer forced to depend on a single supplier to keep your operations up and running – and the process is simple. You can fit, use and remove GETs as recommended by the original supplier, **no special instructions are required**.

TECH TALK

Hardox wear plate forms the basis for our wear resistant parts and repair work. Hardox wear plate has delivered extreme wear resistance for more than 40 years, thanks to its unique combination of hardness and toughness. Our field trials and laboratory tests have shown that Hardox Wearparts Rebuilt GET can match or exceed the service life of cast tooth equivalents in the toughest digging conditions. Additionally, the consistent through-hardness of the Hardox wear plate results in a predictable wear life.

Why Hardox Wearparts Rebuilt GET lasts longer

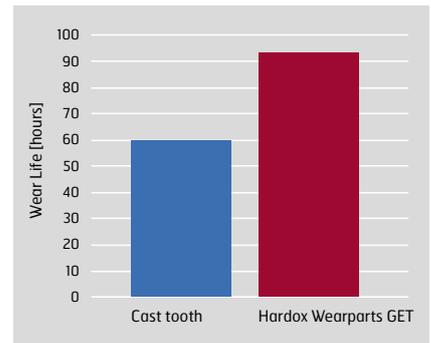
- Longer service life as a result of the hardness of the Hardox wear plate, which minimizes wear, since it is difficult for the edges of the abrasive material to cut into the steel's surface.
- The material has consistent hardness and toughness throughout its entire thickness. This allows GETs to stay sharper for better penetration. In addition, rebuilt GETs are also self-sharpening.

Superior strength and toughness

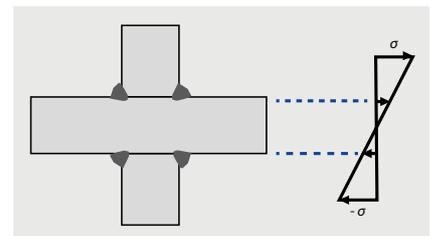
Ground engaging tools require superior strength and toughness in excavating situations because the teeth are subject to a range of extreme forces that can lead to tooth cracking and breakage. Thanks to superior toughness, GETs made from Hardox Wear plate have a much lower risk of cracking when compared to GETs made from cast iron.

Hardox Wearparts Rebuilt GET with its cross-section design (see images) ensures that the majority of the load is received by the Hardox wear plate, with far lower stress concentrations experienced at the weld locations close to the tooth's centerline.

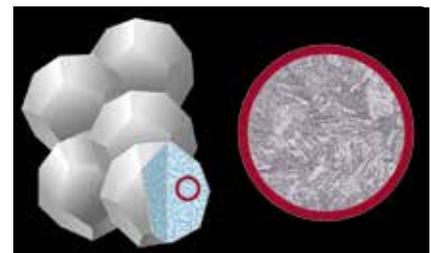
By using a carefully tested welding process, controlled parameters and specifically selected welding material, the rebuilt GET can achieve good mechanical properties.



A simulated upgrade of a 500 HB casted tooth compared to Rebuilt GET with Hardox 600 in an iron ore mine showed a minimum of 56 % improvement in wear life.



Cross-section protected design distributes stresses away from welds.



Pure quality raw materials, a unique quenching process and a well-balanced alloy chemistry all contribute to the premium fine grain steel quality of Hardox wear plate.

FIELD TEST

Rebuilt GET lasted 20% longer

A gold miner in Western Australia was concerned about the frequent machine stops due to its bucket teeth, which wore out too fast. After investigations of the old cast tooth and with the help of the wear analysis conducted by a Hardox Wearparts center in the region, a GET solution was proposed. The service life of the rebuilt GET system lasted 10 hours more than the original GET system. Additionally, they saved 25% in costs and reduced the weight of the tooth by 12%.



Rebuilt ripper improved the machine availability versus the cast GET

A major coal mine in Australia was experiencing frequent and lengthy machine stops and was therefore looking to increase wear life and reduce downtime. A Hardox Wearparts center in the region analyzed the old tooth and suggested a Hardox Wearparts rebuilt GET system. The service life was improved by 25%, costs were reduced by 18% and weight was lowered by 13%.



The results and performance statements made herein are based on customer feedback as well as SSAB's field and laboratory testing. Due to varying operating conditions and maintenance, the results and performance experienced may be materially affected. All statements made are for informational purposes only and do not constitute a guarantee or warranty of any kind.

Hardox Wearparts® is a worldwide network of service centers providing wear parts and wear solutions for optimized productivity and service life. Hardox Wearparts® is a part of SSAB, the manufacturer of Hardox® wear plate.

We would love to hear about your uptime needs



Find a center near you at
www.hardoxwearparts.com/contact



info@hardoxwearparts.com



+46 243 712 00



hardoxwearparts.com

