# **Wear: The inside story**

Your choice of wear plate has consequences for your business. Hardox® maximizes the wear performance of your equipment and machines, reducing workshop lead times and increasing the overall productivity of your operations.

Hardox's performance remains invariable across its lifetime. That also makes its service life very predictable, allowing you to rationalize your repair

With its combination of high hardness, high strength and good toughness, Hardox can be used in a variety of applications, from forest harvesting and ground preparation to asphalting

What's the secret of Hardox's top performance? The production processes include the state-of-the-art metallurgical cleaning of steel and a unique hardening process, resulting in wear plates with outstanding hardness, toughness and workshop friendliness.

### Expertise at your service

In addition to plate, SSAB Plate provides you with expertise. We share our knowledge with you through our Technical Managers, Conceptual Design Group™ and Wear Technology Group $^{TM}$ .

The Conceptual Design Group consists of experts that can help optimize your product from a design perspective.

The Wear Technology Group is committed to developing the technical knowledge of wear. We offer you access Thanks to its consistent properties, to Ph.D's and experts with decades of experience in solving wear challenges. You can get applied support and information on wear-critical components.

#### Information about wear

Wear comes in different forms and each has a different impact on the service life of your application.

The most common wear types are sliding wear and impact wear. Abrasive particles trapped in a narrow gap between two rigid surfaces causing squeezing wear is also a common wear

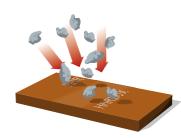
Each variety of rock is composed of a unique set of minerals and these also contribute to the specific type of abrasive wear damage.

WearCalc software, available from our Technical Managers, describes and calculates the relative differences between materials. It allows you to predict relative wear life and compare different wear solutions.

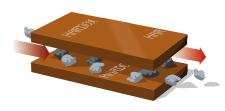
Whatever your application and wear situation, Hardox is your ticket to outstanding wear performance.



In sliding wear, abrasive bodies such as aggregate rocks are free to slide and roll. By selecting a harder Hardox grade, service life can be



In impact wear, the aggregate rocks hit the surface of the wear component at various angles. A harder grade of Hardox will deliver a longer



With squeezing wear, the improvement in service life of wear components is more difficult to quantify. However, an increased Hardox plate hardness often improves the service life

Hardox – Complete product program

With a wide range of hardness grades, thicknesses and cut and welded—an excellent plate for high performance widths to choose from, you'll always be able to maximize your applications. application's performance.

toughness, good bendability and excellent weldability.

equal to Hardox 500, is designed to increase wear life but not cut, milled and drilled using standard workshop practices. at the expense of reduced resistance to cracking.

You'll always find a Hardox plate to fit your wear challenge. Hardox 600 has a hardness of 600 Brinell but can still be

Hardox HiTuf is a wear resistant plate with extra high toughness Hardox 400 and 450 are versatile wear plates with high intended for heavy section wear parts requiring extraordinary

Hardox 500 is a tough, bendable and weldable abrasion Hardox Extreme is intended for applications requiring resistant plate used in applications requiring high resistance. extremely high abrasion resistance. It can replace costly wear products like hard-faced overlay plates and high Hardox 550, with a hardness of 550 Brinell and a toughness chrome white iron. Despite its hardness, it can be welded,

SSAB is a global leader in value added high strength steel. SSAB offers products developed in close cooperation with its customers to reach a stronger, lighter and more sustainable world.

SSAB employs over 9 200 people in over 45 countries around the world and operates production facilities in Sweden and the US. SSAB is listed on the NASDAQ OMX Nordic Exchange, Stockholm.

For more information, contact us or visit www.ssab.com



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# HARDOX ON SITE Roadbuilding

A Part of Your Success



# Breaking the ground for roadbuilding makes tough demands on machines and materials...



- 1. Hydralic hammer
- 2. Excavator bucket
- 3. Bucket
- 4. Excavator bucket
- 5. Crusher
- 6. Bucket
- 7. Bucket
- 8. Asphalt Plant
- 9. Tipper (asphalt)
- 10. Tipper (gravel)
- 11. Bulldozer
- 12. Motor Grader
- 13. Asphalt Roller
- 14. Asphalt Paver
- 15. Tipper (asphalt)
- 16. Asphalt milling machine



#### HYDRAULIC HAMMER

lardox 400/450 in the housing of the hydraulic hammer exposed to wear



#### **EXCAVATOR BUCKET**

Hardox 450/500/550 in the excavator bucket. Hardox may be used in the entire bucket or just in the cutting edge and sides depending on the wear situation.



lardox 450/500/550 in the entire bucket or cutting edge and sides depending on the wear situation.



In the chute that leads into the crusher Hardox 500/550/600 is the obvious choice in the tough



#### **CRUSHER**

Hardox 500/550 used as liner plates in the interior in areas with high wear.



# **ASPHALT PLANT**

Hardox 450/500/550 as liner plates and in gravel chutes. Hardox 450/500 n the wings of the drum. Hardox 450/500 in the transport container from the drum to the truck delivery shaft.



# **TIPPER BODY**

Hardox 450/500 in the body of the tippers and dumpers. Hardox is an outstanding wear fighter in these applications. Hardox also has great mpact resistance, making it an excellent design solution.



#### **BULLDOZER**

Hardox 450/500/550 in the blade of



# **MOTOR GRADER**

Hardox 450/500/550 in the blades of the motor grader.



#### **ASPHALT PAVER**

Hardox 450/500/550 in the screed

