INTRODUCING HARDOX® HIACE FOR ACID ENVIRONMENTS
THE NEW ACE MADE OF HARDOX® WEAR PLATE

Hardox® wear plate continues to take up the battle against wear in tough environments. Hardox® now welcomes a new steel to the product range that fights wear in acidic corrosive environments: Hardox® HiAce.

Thanks to environmental awareness around the globe, we now have more responsible ways of using energy resources and recycled material from waste separation. But it also means a tougher environment for equipment in many industries. To meet this challenge, the Hardox® range now includes Hardox® HiAce — a true wear-fighter even when under attack from acid in corrosive environments.

Hardox® HiAce offers the same excellent properties as Hardox® 450, with an extra feature; it can meet the challenges of corrosive wear environments found in municipal and industrial waste management, waste-to-energy plants, in mining and in other industries with acidic environments.

When the pH level goes down different wear mechanisms kick in, and harder steels won’t necessarily provide a longer equipment service life. Hardox® HiAce performs the same as 450 HBW steel in a regular wear environment, but at lower pH levels, it can extend service life up to 3 times compared with 400 HBW steel.

Hardox® HiAce has the toughness it takes to perform as a structural material in garbage trucks, recycling containers, tipper and dump bodies, and other heavy-duty products. It also delivers outstanding performance in freezing conditions.

Hardox® HiAce has a guaranteed impact energy of 27 J at -20 °C (20 ft-lb at -4 °F). It is available in thicknesses of 4–25.4 mm (5/32–1 in.) according to the dimension program below. Hardox® HiAce can be processed by the same kind of machinery used for other Hardox® grades. The bendability is the same as for Hardox® 450.

**Relative service life in a corrosive environment**

<table>
<thead>
<tr>
<th>Hardness nominal HBW</th>
<th>Impact toughness CVT guaranteed (J) at -20°C (ft-lb at -4°F)</th>
<th>Service life in acid environment subjected to wear (relative to 400 HBW steel)</th>
<th>CEV/CET typical for 20 mm (¾”)</th>
<th>Thickness range mm (inches)</th>
</tr>
</thead>
<tbody>
<tr>
<td>425–475</td>
<td>27 J (20 ft-lb)</td>
<td>up to 3 times</td>
<td>0.99/0.38</td>
<td>4.0–25.4 (5/32–1&quot;)</td>
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</table>

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**Outside the range of dimensions**

Corrosion resistance
Wear resistance

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**Hardox® HiAce**

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