Erasteel is a major player in the High Speed Steel market and the world leading producer of powder metallurgy HSS.

Thanks to the most advanced technology in powder metallurgy and a policy of continuous investments with a strong focus on Research & Development, Erasteel has built a high standard of quality and experience in the processing of steels and alloys.

**A UNIQUE POWDER METALLURGY PROCESS**

During gas atomization the molten steel is disintegrated by powerful jets of nitrogen gas into small droplets, which solidify at a very high speed.

The powder is collected in a steel capsule which is then evacuated and welded. The Hot Isostatic Pressing of the powder subsequently densifies the powder.

Bars, wire rods, strips and sheets are obtained from forging, hot and cold rolling and wire drawing of the HIP’d capsule.
With its latest industrial investment operational in 2012, Erasteel enjoys today the biggest powder atomization capacity worldwide.

Unique steels, known under the registered trade name of ASP® are manufactured with this atomization process. With its ASP® range, Erasteel is the world's leading producer of gas-atomized powder metallurgy high speed steels.

ASP® grades have reached an unprecedented level of cleanliness with a low level of large non-metallic inclusions that have been drastically reduced.

The homogeneous microstructure, with an even distribution of small carbides allows ASP®, grades to reach unprecedented properties, such as:

- High hardness
- Toughness
- Polishability
- Wear resistance.

**BENEFITS OF ASP® MANUFACTURING**

<table>
<thead>
<tr>
<th>EXCELLENT STRENGTH</th>
<th>SMOOTH SURFACE</th>
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<tbody>
<tr>
<td>Excellent strength avoiding crack initiation and failure</td>
<td>High polishability Excellent smoothness</td>
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<tr>
<th>PERFECT EDGES</th>
<th>HIGH FATIGUE STRENGTH</th>
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<tbody>
<tr>
<td>Perfect and smooth edge for a long and reliable product life</td>
<td>Higher fatigue strength</td>
</tr>
</tbody>
</table>

**OUR PRODUCTS RANGE**

*ASP® is a registered trademark of Erasteel*
THE BEST CHOICE FOR YOUR APPLICATIONS

CUTTING TOOLS
Hobs, broaches, taps, milling cutters, drills, reamers, saws, etc.
- Sharp, perfect and strong edges
- High metal removal rates
- Long and predictable tool life
- An ideal substrate for high performance coatings

COLD WORK
Punches, dies, encapsulation molds, thread rolling dies, etc.
- Abrasive wear resistance
- High toughness
- High hardness
- High polishability
- Strong thin profiles

SAWS
Bimetal bandsaws
- Better wear resistance
- Better toughness at a given hardness
- Refined structure
- Better grindability

COMPONENTS
Diesel injection, bearings, wear parts, vane pumps, etc.
- Wear resistance
- High hot hardness
- High toughness
- Fatigue resistance
- Dimensional stability

PLASTICS
Injection screws, extrusion screws, etc.
- Wear resistance
- High toughness
- High hardness and high strength
- High polishability
- Adhesive and corrosion resistance

JULY 1969: FIRST STEPS OF POWDER ATOMIZATION

2019: WE HAVEN’T STOPPED WALKING EVER SINCE.

www.erasteel.com