UNTHA
shredding technology

The reliable brand!

invica

UNTHA LR1400 TRIPLES WASTE WOOD THROUGHPUT FOR INVICA'S BIOCARBON PLANT

Invica Industries

Our biocarbon plant was struggling to cope, and without a reliable shredder, it simply wasn't economical. The LR1400 turned that around. By fixing the sizing issue, we've almost tripled our throughput and completely changed the outlook of the project. Plus, with flexible hire options, we've been able to keep the plant running at full capacity while planning future investments more strategically.

Patrick Riley, head of projects, Invica Industries



» MATERIAL
Waste wood

» SHREDDER
LR1400

» THROUGHPUT
1–1.2 t/h
at 30mm





CLIENT SUMMARY

Invica Industries (Invica) is a leading provider of solid fuels for domestic, commercial, and industrial markets. The business is driven by a strong focus on sustainability and a commitment to delivering measurable emissions reductions, while enabling customers to actively lower the carbon footprint of their own products and processes. Backed by decades of experience and a passion for innovation, Invica has invested heavily in pioneering technologies that create greener alternatives for the future. Its biocarbon plant, designed to transform waste wood into a high-quality, lower-emission fuel source, is a prime example of this forward-thinking ethos – championing efficiency, resilience, and resource recovery to set new standards across energy, water, manufacturing, and infrastructure.

SCOPE OF APPLICATION

When Invica's biocarbon plant began facing challenges with variable feedstock, operational efficiency quickly came under strain. The inconsistent sizing of waste wood materials was restricting throughput, and the process was no longer proving to be commercially viable. Having successfully hired UNTHA equipment in the past, Invica turned once again to our waste management experts for support. Armed with three clear goals – to achieve consistent particle sizing, increase throughput, and ensure smooth downstream processing – there was no better match than the LR1400.

SHREDDING SOLUTION

The UNTHA LR1400 has proved transformative for Invica's biocarbon plant. By delivering uniform 30mm particles at 1–1.2 tonnes per hour, it solved the feedstock sizing issue that had previously restricted throughput. With this consistency, the plant has almost tripled its output – a step-change that shifted the project from uneconomical to commercially viable.

The decision to hire the LR1400 gave the business the flexibility to act quickly, without tying up capital, and UNTHA's pilot facility provided the perfect reassurance that the shredder would perform exactly as promised. For Invica, that confidence has been invaluable.

While it's too early to measure a full return on investment, this increased throughput has already reduced the overall cost of producing biocarbon, strengthening the plant's strategic long-term success. Looking ahead, Invica plans to push the system even further by trialling a wider range of waste wood materials to maximise performance.

REQUIREMENTS

- Uniform particle sizing to ensure consistent material quality
- High-capacity shredding to increase processing speed and volume
- Reliable and consistent machine performance to minimise downtime
- Flexible hire arrangement for commercial agility to support changing needs
- Ongoing expert support and maintenance for long-term reliability

> Invica's mission to turn waste wood into a sustainable fuel fits perfectly with UNTHA's vision for smarter resource recovery. The LR1400 gives them the consistency and throughput they need, coupled with the commercial flexibility of hire. It's proof of how the right shredding solution can transform an entire process.

– **Gary Moore**
Sales director, UNTHA UK