

Hammer System for Pulp

by Stora Enso Intelligent Packaging



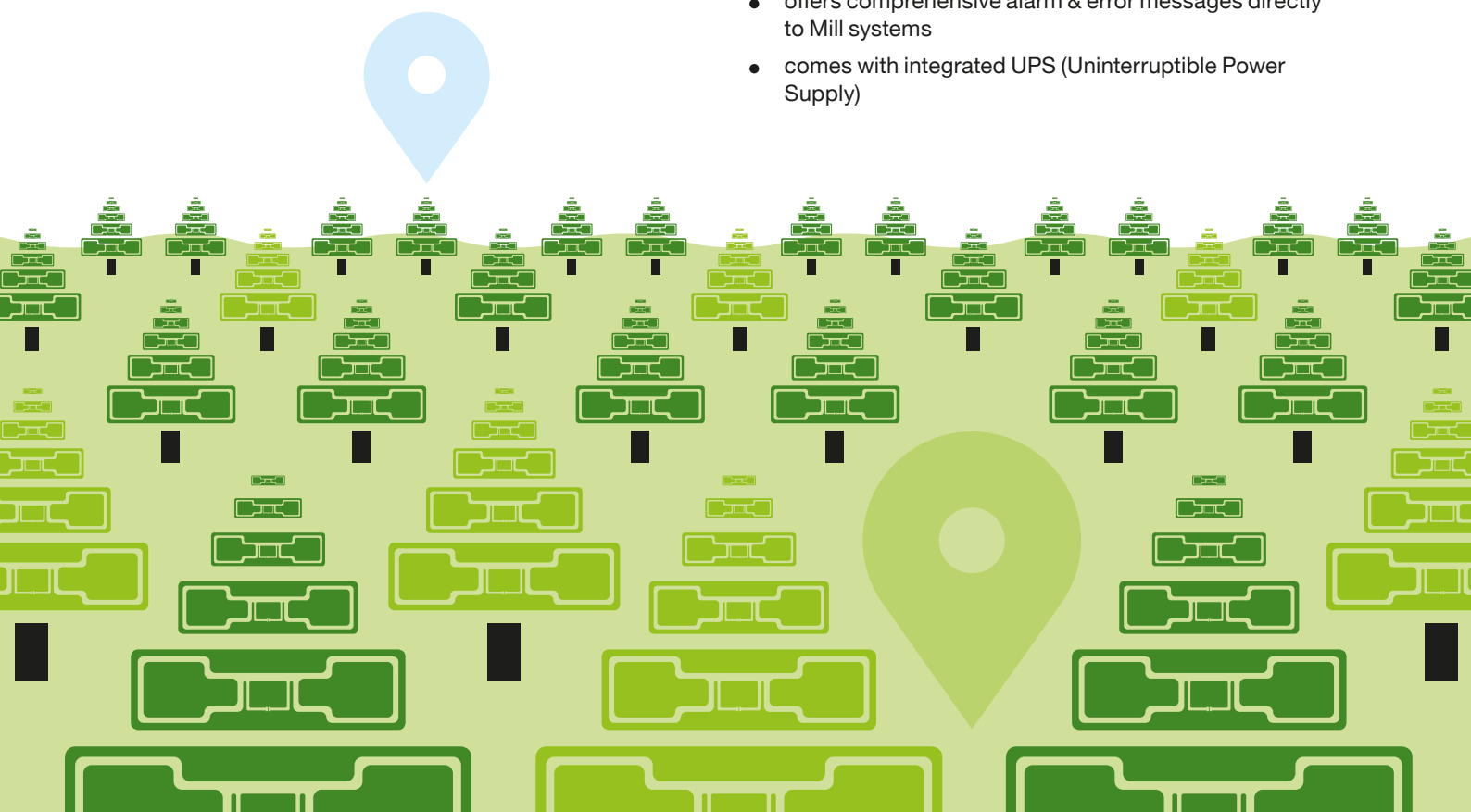
Hammer System for Pulp by Stora Enso Intelligent Packaging is designed-for-purpose and seamlessly integrates RFID tag quality control, encoding and applicator as well as a read verification system. Our Hammer system consists of the Hammer Central Unit, off-the-shelf industrial-grade label applicator and RFID accessories.

In many RFID use cases there is a need to efficiently apply the RFID tags to the products at high speed without interrupting a given industrial process. At the same time as the RFID tag is applied, it should also be encoded and quality-controlled, and potential under-performing tags should be removed. To overcome this challenge we have developed the Hammer system, designed and built for industrial environments with no compromises.

The benefit of using Hammer comes from its operational reliability – the whole concept has been designed and built to maximise system uptime.

The core of the Hammer system is in the Central Unit, which:

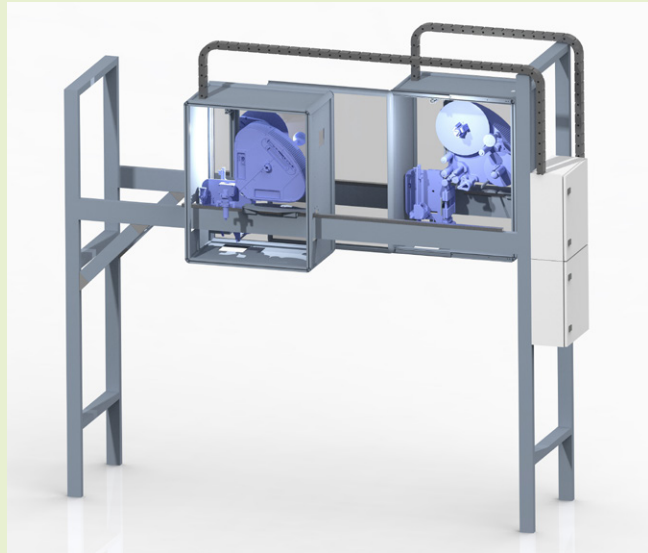
- controls the operation of the applicator, the built-on RFID hardware and the whole range of system functionalities
- is designed to fit to the industrial environment with continuous operation in mind.
- is a remote-managed system with simple and user friendly UI – no RFID expertise required comes with remote diagnostics functionality
- has standard IoT and industrial interfaces for easy integration to various mill systems over TCP/IP / XML, IO, Profinet
- offers comprehensive alarm & error messages directly to Mill systems
- comes with integrated UPS (Uninterruptible Power Supply)



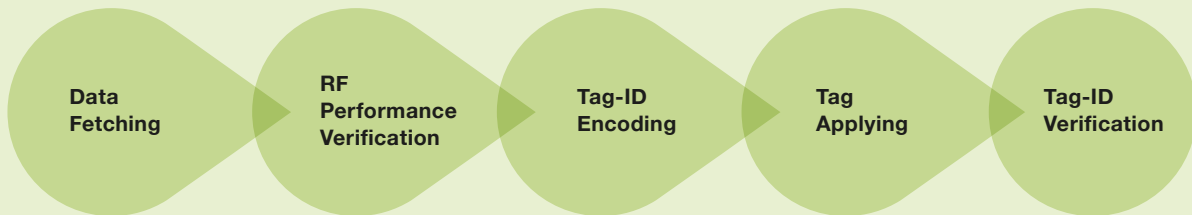
RFID tag applicator

Part of the Hammer system is the **RFID tag applicator** - a robust device that has been tested and selected as the best standard fit for most use cases at pulp mills:

- Proven high performance and high availability
- Robustness of the design and build
- Small footprint (L700xW450xH800mm)
- Use of up to ø 300mm rolls for minimized number of roll changes (with up to 6000 tags/roll)
- Easy roll changes
- Touch-on tag application
- Tag placement accuracy exceeding +/- 1mm
- Left-hand and right-hand model available
- Applicator mounting holder to allow choosing either 0° or 90° tag application orientation
- Improved troubleshooting
- Housing for dust and water protection
- Signal tower for improved visual error alerting



To cater to the highest availability requirements we offer **Dual Hammer** – a solution that consists of one Hammer Central Unit linked to two RFID tag applicators. Dual Hammer reduces the possibility of production downtime from roll-changes and applicator faults.



Main features of the Hammer System



Efficient RFID label application concept with Zero Down Time for various packaging manufacturing streams



Professional, integrated RFID tag testing, encoding, printing, label application and sorting systems – all in one solution



Remotely managed system with simple and user friendly web-based UI – user doesn't need to be an RFID expert



Centralized product recipes



IoT and Industrial interfaces – very easy to integrate into customer's systems, e.g. MES



Modular structure – Interfaces and functionalities can be fitted to customer requirements – customers pay only for selected options

Contact us for more information:

www.storaenso.com/intelligentpackaging