

Upgrade of power pack

Customer: **Nehlsen GmbH & Co.**
 Delivered: **2009**
 Facility: **M&J PreShred 2000**
 Production: **Refuse-derived fuel**



An untraditional solution to a well-known problem

Since 2004 Nehlsen GmbH & Co. has operated an M&J 4000S shredder at its waste processing facility in Wangerland, Germany.

Now in its third generation of family ownership, Nehlsen GmbH has extensive experience in processing refuse-derived fuel, along with planning, building and operating power stations and biogas and biodiesel plants. Nehlsen is a company known for its forward-thinking approach to environmentally-responsible waste management.

Changing needs

Over the years the composition of the waste flow to this shredder installed at Wangerland had gradually been changing. Because wood and timber are now no longer normally found in the standard waste inputs in Germany, the waste flow had acquired a different mix, and it had become more of a challenge to shred efficiently.

At the same time, the company wished to increase its shredding capacity by about 20%.

Finding the most effective answers

The staff responsible for the Nehlsen facility in Wangerland – Mr. Volker Schneider-Kühn and Mr. Nils Hildebrandt – discussed these needs with representatives of Metso Denmark.

After careful inspection of the shredder and its state of wear, Metso Denmark was able to suggest a surprising solution – one that would be considerably less expensive than traditional thinking about how best to boost shredding capacity.

Instead of supplying a complete new cutting table, Metso proposed exploiting the benefits of the modular design at the heart of its shredders by replacing the existing drive unit with a new Power Pack HDC. This would increase the power available to the rotating knives at a relatively low cost. This approach would also make it possible to keep downtime to an absolute minimum, as Metso technicians were willing to swap out the power unit over a weekend, with the shredder ready to operate again on Monday morning.

Everything as planned

The whole operation went exactly as planned. The new Power Pack HDC was installed over a weekend without a hitch. Mr. Volker Schneider-Kühn expressed considerable satisfaction with the way the fitters had dealt with the situation, following a pre-planned schedule of operations and making sure the shredder was ready to run as planned.

The shredder has been running consistently at a capacity of more than 25 tonnes per hour ever since.