



**M&J  
Industries A/S**

# News

M&J Industries has a comprehensive product programme for shredding solid waste – including difficult materials such as carpets, mattresses, tyres, sheets of metal etc. Our patented technology ensures efficient shredding with a capacity from 10 to 150 tons per hour.

## • News in brief

### **New Swedish partner in full swing**

For the past year, Lars Borg, of GSM Miltek AB, has been responsible for sales and service of M&J waste shredders in Sweden. GSM Miltek AB is located in Höganäs, just north of Helsingborg.

The company works together with industry as well as local authorities and with more than 20 years of waste management experience, they are the perfect choice as a collaborative partner for M&J Industries.

### **No fear of operational stoppage**

At Sydskraft's Norrköping plant, they don't tremble with fear at the thought of the next concrete block or lawn mower lying within the enormous piles of household waste.

"We sought after and found the most robust "crushers" on the market", says project engineer Benny Broman of their two M&J6000S shredders.

### **M&J shredder chops firewood in Australia**

An M&J 4000 is involved in forestry work at M&J Industries' first Australian customer.

For the first time, a waste shredder from M&J Industries AS has journeyed all the way to Australia.

The Western Australian company, Simcoa Operations, purchased the shredder and it is now indirectly involved in the company's production of silicone.

Simcoa uses quartz in order to produce silicone, and the company obtains its raw materials from mines out in the wilderness. In order to reach the mines, the company has to chop down trees and construct temporary roads.

It is, however, practical that the fallen trees can be used in the production of silicone, as this process requires carbon from, e.g., briquettes.

The M&J waste shredder crushes the fallen trees into 20 – 30 cm pieces of firewood, which are subsequently converted into briquettes.

As a result of the rather rough terrain, Simcoa Operations PTY, LTD, Wellesley has chosen a shredder model with caterpillar tracks.



*The sun goes down after a good day's work for M&J 4000 in Australia.*



What a beautiful waste!

## • News in brief

### Into new markets

M&J Industries has established partnerships with distributors in Slovenia, Croatia and Hungary in connection with broadening its markets.

In Slovenia, the Horsens Company now works with PTS LITOSTROJ, in Croatia with GRADATIN d.o.o. and in Hungary with E.T.C. Umweltschutz- und Handelsg. M&J Industries is looking forward to strengthening its partnerships and establishing itself in the new markets.

### Two shredders to Rome

For the first time, M&J Industries is sending shredders to Rome.

Two M&J 4000Ss will form part of a sorting plant shredding household waste.

The plant will be constructed by the Italian company, Panelli Impianti Ecologici S.p.A. on behalf of the local authority in Rome.

### Increased sales in Switzerland

Sales of M&J shredders to Switzerland have increased. The increased sales are split between both new customers and the replacement of shredders.

The Swiss incineration plants have high standards where durability, quality and operational safety of shredders is concerned. Customer doors have been opened, due to the fact that M&J shredders meet these standards. Sales are carried out in partnership with the Swiss M&J distributor, GETAG Entsorgungstechnik AG.



## Sturdy machines prevent operation stoppages



Waste management in Norrköping is protected against long stoppages – even if a lawnmower suddenly turns up in the piles of household waste.

“It is dangerous to gamble with sorted waste, as things will always turn up in the piles of waste that shouldn’t be there”, explains Benny Broman.

He is the project engineer at the Norrköping waste management plant set up by Sydkraft a couple of years ago.

### Engine parts and concrete

Benny Broman is happy that experiences at the plant have proven it was wise to invest in waste machines that can handle household waste containing objects that really shouldn’t be in the waste.

“We have found everything from engine parts to concrete blocks”, says Benny Broman.

When the plant was being set up, Sydkraft ideally wanted to find a company who could provide a complete solution.

“But there weren’t any companies who could manage the task of setting up the entire plant”, says Benny Broman. Sydkraft itself became the project leader for the fuel section.

### Visited a plant in Odense

Benny Broman was involved in investigating the market.

“We wanted to find some machines that could deal with iron, scrap, cement blocks and concrete”.

One of the places he visited was the CHP plant in Odense where he saw an M&J 6000S crush waste. That was the model Sydkraft chose to buy.

“Our most important requirement was for robustness. The primary crusher (which is

what the Swedes call the waste shredder at the head of waste management) must be able to handle foreign bodies in the waste. The worst thing that can happen to us is, you see, the plant coming to a standstill because one of the machines has broken down", says Benny Broman. He emphasises that operational safety has to be high and maintenance costs low.

He, therefore, wanted to find a model with relatively large openings for waste where the blades wouldn't become blunt too quickly.

#### Less dust and waste

Another high priority was the working environment for employees.

"We can't totally avoid dust, but we aim for a minimum amount of dust, and we achieve this best by using low-speed machines like the two M&J machines we have".

Benny Broman also points out that he thinks that the two machines have less wastage than most – as well as having a lower fire risk.

He emphasises his satisfaction with the plant's shredders:

"We sought after and found the most robust "crushers" on the market.

Seen in relation to maintenance costs, it can quickly become five or ten times more expensive if one purchases a machine that is inadequate for this environment."

#### Important first stage

Benny Broman is pleased that Sydkraft itself prepared the drawings for the plant:

"We have achieved the particular combination we really wanted. The biggest success is our M&J crushers. Choosing two slow-moving crushers has proved to be precisely the right measure. They are particularly important, as they are the first stage in waste management. If they break down, the rest of the plant can't run."

The machines work from 06.00 to 22.00 and 100 tonnes of waste is transported through the plant every hour.



## A swap – thanks!

After a long and faithful service even an M&J cutting table can become blunt – but there is the option of exchanging the unit for a reconditioned and updated version.

In the branch, replacing bolted-on teeth and blades is common but doing so is inconvenient as well as costing both time and money. M&J Industries has chosen another way.

Instead of continually replacing the cutting components resulting in operations stoppage, M&J has chosen to reinforce the shafts and cutting table so there is no need for replacement until after several thousand hours of operation.

#### Only a one-day pause

Owners of M&J waste shredders have another alternative to resort to when the internal fittings of the old cutter table are worn down.

Instead of buying a new cutting table, they can choose to buy a reconditioned cutting table that was formerly in a waste shredder of the same model at another customer.

"When we offer that arrangement, the customer needs only to shut down operations for the one day it takes in order to replace the cutting table", Jens Christian Berg, service department, M&J Industries A/S explains.

A reconditioned cutting table is just as good as a new one, with respect to blade holders, blades and shafts. All worn parts that affect the ability to shred are replaced with new ones.

Cosmetically, the cutting table may have some blemishes. Dents in the body, for example. If the sides of the cutting table have acquired dents during its work with the previous owner, these aren't straightened out. But all cutting tables are sand-blasted and painted.

Reconditioned cutting tables are painted black as standard and can, therefore, be distinguished from the new orange ones.

#### An updated model

In addition to the joy of being able to get a reconditioned cutting table, M&J customers can add yet another advantage.

They can get an updated version of the cutting table at the time of exchange. Some customers also choose to change the type of cutting table.

For example, a customer chose a reconditioned cutting table which had two shafts with ten blades instead of the two shafts with eight blades that the customer returned.

By doing so, the customer achieved their desire, which in this case, was to shred the waste into finer particles.

# Test run in Dutch compost

A test run at Dutch compost company, VAM, clarified that a twin shaft M&J 4000 HDC with 2 x 10 blades more than satisfied the firm's requirements for the shredding of compost.

"The test run showed that the M&J shredder could convert over 4,000 tonnes of waste over the course of 26 hours. An average of 156 tonnes an hour – and that was with the machine only operating at 85% of its maximum capacity! In the laboratory the residual amount was measured at 1.8% and the particle size at an average of 65mm", says Hans Ipes of Industrial Shredders. The management of Vam Composting was very impressed by the M&J shredder's efficiency and the test results.

The firm, which is the largest composting firm in Holland, conducted the test run for a specific purpose: The test was conducted in order to determine whether integral shredding of GFT (vegetable, fruit and garden waste) could reduce the quantity of residual waste transported to landfills to less than 2%.



In Holland, the cost of waste disposal has become extremely high and as more than 300,000 tonnes of waste is converted to compost at the composting site, a reduction in the amount of residual waste would lead to significant savings.

The waste at the site is termed: GFT, Groente, Fruit en Tuinafval, (In English, vegetables, fruit and garden waste).

The test run was carefully prepared for by staff of VAM, Industrial Shredders and M&J. We can highly recommend planning demonstrations and test runs thoroughly in close co-operation with the customer. Read: Five good bits of advice, for further information on the subject.

## Five good bits of advice

The article on Demo Karsten in our newsletter no.1 gave Hans Ipes, distributor of M&J shredders in Holland, the idea for contributing the following good advice to companies who are planning a test run.

Tips on getting the most out of an on site demonstration – and, at the same time, clarifying the size of machine to best suit your needs:

- Be clear about the products to be worked on and the shredding size you want or expect.
- Weigh the material and determine the volume weight for the shredding test.
- Measure how long it takes to shred the

material. Start a stopwatch when the first material enters the feed inlet and stop the watch when the feed inlet is empty.

- Take photos or video of the test and the material both before and after shredding.
- Use the machine as you normally would. It is best to use a digger with a fork for filling. Ensure that the machine does not run dry, as this will have an effect on the shredding size and capacity.

Also remember, it is important to know the density so that you can recalculate productivity if the density of the material is changed.

Good luck.



### A little about M&J Industries

M&J Industries has many years of experience in waste processing and has sold numerous machines worldwide, both in the public and the private sectors.

M&J Industries' waste reducers are distributed through a worldwide network of dealers.



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