
REMEMBER...

- BEMA can supply any kind of spiral or screw flight, including conical ones.
- We also supply all types of screw shafts, and we're one of the leaders in screw conveyors manufactured for all purposes.
- We deliver everything according to customer specifications. We manufacture items to order, providing full customer satisfaction, and we always have reserve parts in stock.
- We stand ready to assist you if you experience operating difficulties. Contact us, and we'll tackle the job with our highly flexible approach.
- BEMA has its own design and fabrication departments, and we handle every stage of the production process in house. You will find us a highly competent partner.



All of which ensures that we can solve any transport need that involves screw conveyors – from idea to final result.

Our development and production facilities are located in Haderslev. That means that you'll find us close at hand, which is an advantage when you need a custom solution – especially if it's urgent!

CONTACT

Contact BEMA on mail: info@bema.as or
phone: +45 74 52 16 21

Our dedicated colleagues are ready to assist you with help, consulting and specification of your transport solution, which fit to your needs.



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NEWSLETTER

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NEW FROM BEMA

Woodchips are increasingly replacing coal in combined heat and power (CHP) plants, both in Denmark and abroad. But when transport systems, boilers and burners use wood as fuel, it places new demands on facilities. Woodchips for CHP plants possess varying dimensions, are wet and may contain foreign materials such as soil, sand and small stones – all of which causes wear on equipment.

BEMA supplies screw shafts to such plants for conveying and discharging woodchips – either as complete solutions, in which we handle the entire process from project design to implementation, or as individual components, in which we apply our special competences in the field of screw conveyors.

In this issue, we describe two of these solutions.



A SILO TO SUPPLY WOODCHIPS TO THE BURNERS

The burning of chips at a CHP plant works largely in the same way as the burning of other types of fuel, no matter whether it's coal, wood pellets or something else in powder or pellet form. The combustion needs to occur as evenly and efficiently as possible in order to utilize the fuel to maximum effect. And that calls for feeding the fuel in varying quantities from a buffer silo to the burners. The amount of fuel that is required at any point depends on how damp it is, how rough the pieces are and how much heat the boilers need to produce.

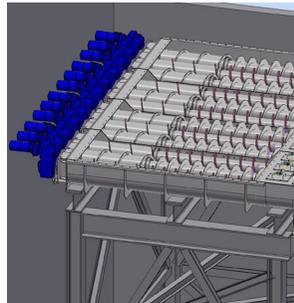
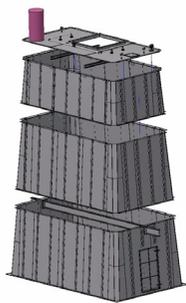
BEMA recently delivered a total solution to a CHP plant where woodchips are replacing coal. In this case, the silo was constructed with four outlets, each featuring three screw conveyors that feed the fuel directly to the burner.

"The silo is used to measure out the quantity of fuel correctly," explains BEMA CEO Jørgen Strøm, "and the rotation speed of the conveyors is adjusted as needed." The screw shafts are subdivided so that they can be easily disassembled and removed for maintenance.

The screw flights have been fabricated in wear-resistant steel in order to withstand the continuous wear from the woodchips.

Not only did BEMA oversee the entire construction, but we also delivered everything with full documentation.

"In addition," says Strøm, "we also provided expertise throughout the construction phase, from start to finish."



SCREW SHAFTS WITH FLIGHTS OF SANDWICH MATERIAL

BEMA is glad to supply individual components as well. For instance, we constructed two special shafts for another power plant, where the woodchip fuel had been creating wear problems on the discharge flights from the buffer silo.

Our solution was to fabricate the flights from Castolin wear plate, a steel plate that has a layer of hard metal with chrome carbides.

The shafts have now been in place for a year and appear to be quite durable. The material tolerates abrasion from the woodchips well, giving the shafts a significantly longer lifetime – and leading to noticeable savings in both operations and maintenance.



BEMA IS A HARDOX SPECIALIST



The conveyance of hard-wearing, highly basic or highly acidic media is a discipline in itself. Over the years, BEMA has specialized in manufacturing screw shafts in Hardox for heavy-duty applications.

"Hardox shafts have a longer lifetime, and they help reduce maintenance needs," says Strøm. "That means fewer operational stoppages – and thus higher productivity for the facility."

In certain situations, he notes, Castolin wear plate is more appropriate.

"The extensive preliminary work that we do – a hallmark of any collaboration with BEMA – lets us discover together with the client the best solution for the situation at hand."

If you would like to find out more about BEMA's competencies in both bespoke solutions and individual components for particularly demanding assignments – or about how a Hardox solution could help your business – please contact our impressive team of consultants at bema.as.