

## SILO PLANT - Kolding port

### New, cutting-edge silo reduces dust problems upon discharge

Linattech A/S has produced a new silo plant at Kolding Port that reduces both dust clouds and waste in a simple and inexpensive manner while simultaneously improving the environment and workplace during discharge.

Significantly fewer dust problems, less waste, a cleaner physical and healthier workplace environment; there are several advantages in the new, cutting-edge silo plant that has entered service at Kolding Port with huge success. Linattech A/S has developed, produced and installed the silo plant that provides a valuable example of a simple and inexpensive low-tech solution that matches high-tech solutions in terms of efficiency, but are significantly more expensive.

For example, dust clouds generated upon discharge of grain, fertiliser, wood pellets, coal and cement are a major issue at ports and other locations. This dust pollutes the surroundings, impairs the workplace environment and both time and manpower are required to sweep it up. Such problems have all been significantly reduced at a silo plant in Kolding Port that has served as a test-bed for almost half a year. Waste and dust clouds have been substantially diminished.

#### FAKTA

Less waste

Fewer dust problems

Cleaner physical environment

Healthier workplace environment

Simple and inexpensive

Can be assembled in existing silo plant

Only 20 % more expensive to acquire than a corresponding silo plant WITHOUT a hopper

### Dust reducing silo hopper

The solution at Kolding Port consists of a dust reducing silo hopper that was installed for discharges from the silo. This hopper creates negative pressure in the column of air, which results in it being able to absorb a large portion of dust that would normally occur upon discharge of grain and similar substances. The silo hopper is constructed of polyethylene, though it can be produced in stainless steel for use in managing more aggressive media.

### Efficient and inexpensive

In addition to this solution that Linattech A/S has delivered to Kolding Port, there are various dust reduction solutions on the market; however, these are all defined as being high-tech and are very expensive, both in acquisition and operation.

These sophisticated solutions cost as much as the silo plant itself. In contrast to the latter, this solution is not merely effective but also inexpensive. Typically, a silo plant fitted with a dust reducing silo hopper will only be 20% more expensive in acquisition than an equivalent plant without such a silo hopper; and the attendant costs of operating the silo will not increase. Thus this is a case of an extremely good investment.

In addition to ports, this silo solution may also be used in grain and feed industries, the energy sector as well as in those industries where liquefied substances are discharged. The dust reducing silo hopper may also be installed in existing silo plants.

### A happy and satisfied port manager

- This solution that Linattech has delivered functions extremely well. We have achieved the reduction in dust clouds that we had been hoping for. I am satisfied, happy and proud on behalf of the port that we have reached our expectations, says Claus Holm Christensen, manager of Kolding Port

