



Haarslev Industries RotaTube Dryer, RTD

The RotaTube Dryer, type RTD is a compact steam dryer for the drying of biomass (sawdust, peat) and various protein-based feedstuffs such as fish meal and distiller's spent grains (DDG and DDGS) providing high evaporating capacity and consistent product quality.

Design

The RTD is a contact dryer built as a rotating drum with internal lifting shovels and a heating surface which is designed as tubes bundles heated by steam.

The drying takes place when the wet product led into the rotating drum is lifted by the internal shovels and distributed over the steam heated tubes.

The product is conveyed by gravity within the dryer. The product is then blended and slid towards the outlet by the rotary movement of the dryer.

Haarslev Industries

Through the acquisition of Atlas-Stord Denmark A/S in 2006 Haarslev Industries became the leading supplier of processing equipment for fish meal factories all over the world, and gained access to markets for equipment for handling of by-products from production of bioethanol.

Since the acquisition we have integrated the dryer programme of Atlas-Stord in the Haarslev range of

dryers. Sharing know-how and experience enable us to develop and optimise machine and process design.

Our solutions are designed for improved product quality, reduced environmental impact and energy consumption.



Features

The RTD consists of the following:

- Drum and lifting shovels, which ensure that the product is distributed uniformly over the steam heated tubes during the rotation of the drum.
- Steam tubes and condensate system. The steam tubes are collected in a number of tube bundles. Each tube bundle consists of tubes and two end domes with connection for steam inlet and condensate outlet. The steam tubes are supported by baffles.
- The RTD is supported on bogies consisting of rollers suspended in bearings. The bogies are mounted to give the drier an inclination from the inlet to the outlet of the tube dryer.
- The wet product enters the drum through an inlet housing, which is sealed to the drum in order to prevent leaking air from entering the dryer.
- The dried product is discharged at the opposite end of the product inlet by the freefall from holes located around the shell. The outlet housing is sealed to the rotor by means of a lip seal and equipped with covers through which inspection and cleaning can take place. A horizontal extraction screw for the dried product is placed below the outlet housing.
- The drive station consists of a gear motor mounted directly on the supporting rollers.



Technical specifications			
Type	Heating surface m ²	Weight Tonnes	Motor Kw
RTD 3115-15	794	77	90
RTD 3118-18	951	81	90
RTD 3518-18	1312	98	110
RTD 3522-22	1601	112	110
RTD 3922-22	1901	151	160

We reserve the right to alter the specifications at any time without prior notice.



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