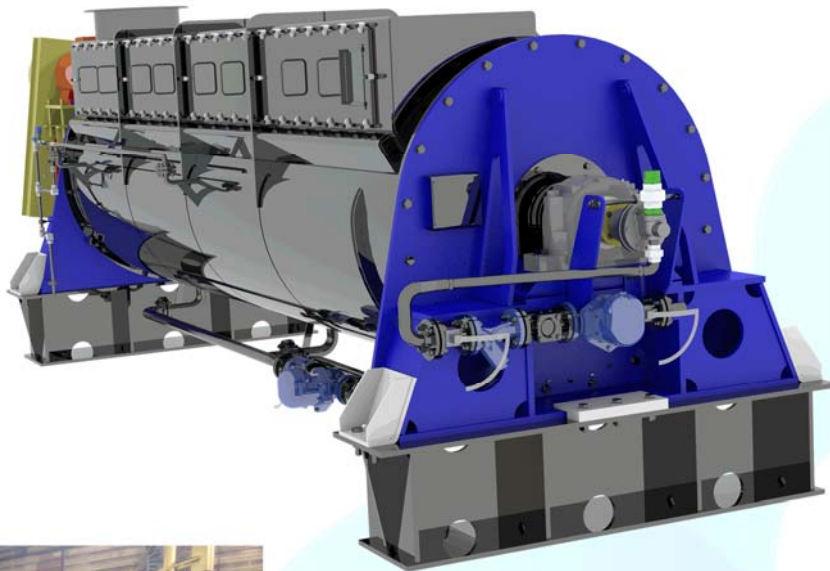


## DATA SHEET AMOF FJELL THERMAL DISC DRYER



**The AMOF Fjell Thermal Disc Dryer** is an indirectly heated dryer for:

- Sludge in Waste Water Treatment Plants
- Fishmeal in both land based and ship installed plants
- Ingredients in the food industry
- Spent grains in distilleries and breweries
- Animal and poultry by products
- Industrial bio-sludge and mineral sludge

The dryer has a unique durable rotor design without traditional welded stays exposed to tear, wear, fatigue and corrosion. Dryers can be supplied in all practical sizes, in all common materials of construction (carbon-, stainless-, and duplex steels), and approved and inspected according to the leading international design codes and standards (PED, ASME, JIS, GOST, DNV, Lloyds, Bureau Veritas etc.)

### Legacy

In 2012, the engineering department of Fjell Industries was moved to a new company called Fjell Technology. In 2014 Fjell Technology was merged with a company named AMOF, and our new name then became AMOF Fjell Process Technology. Our employees have long experience in calculating, producing and commissioning dryer systems, and some of our senior personnel have been working with this since the Stord Bartz, and Atlas Stord days. The Dryer has been developed and improved over the recent years, and AMOF Fjell has an ongoing production of these dryers.

### Design Features

The **AMOF Fjell Thermal Disc Dryer** is designed for heating by steam (max.10 bar), hot water or oil. The largest heating surface is the rotor, but additional heating surface is available as an option on the stator. The product to be dried is slowly, but vigorously, transported from inlet- to outlet end by a paddle system mounted on the disc periphery. Product discharge is normally done continuously by a speed controlled extraction screw conveyor. The

discs are mounted on a heavy central shaft with a highly efficient condensate removal system integrated. Scraper bars ensure agitation between the discs, which is necessary for efficient evaporation. The moisture evaporated from the product is collected in a high top vapour dome, and continuously removed.

### Scope of Supply

- ✓ Replacement rotors for existing disc dryer installations from all recognised OEMs.
- ✓ Complete AMOF Fjell Thermal Disc Dryers with all necessary auxiliary equipment.
- ✓ Complete key ready process plants including feed hoppers, grinders, conveyors, pumps, steam/condensate equipment, vapour and dust handling systems, product discharge, pellets mills, storage and bagging systems.
- ✓ Associated process equipment like evaporators, coagulators, presses, decanters, tricanter and separators.
- ✓ All dryers can be designed for vacuum drying.
- ✓ All small dryers up to AF-TD-S 110 can be delivered for food processing meeting EHEDG guidelines.

### Standard range of AMOF Fjell Rotating Disc Dryers

Model		Heating surface		Overall dimensions	Approx. weight	Drive unit
<i>cold stator</i>	<i>hot stator</i>	<i>rotor</i>	<i>stator</i>	<i>length x width x height</i>	<i>dry</i>	
AF-TD-S 10	AF-TD-S 10+	10 m <sup>2</sup>	2,5 m <sup>2</sup>	4.1 m x 1.0 m x 1.7 m	3 ton	5,5 kW
AF-TD-S 30	AF-TD-S 30+	33 m <sup>2</sup>	6 m <sup>2</sup>	5.8 m x 1.6 m x 1.5 m	7 ton	11 kW
AF-TD-S 50	AF-TD-S 50+	47 m <sup>2</sup>	7 m <sup>2</sup>	5.8 m x 2.0 m x 2.3 m	10 ton	22 kW
AF-TD-S 60	AF-TD-S 60+	58 m <sup>2</sup>	9 m <sup>2</sup>	6.9 m x 2.0 m x 2.3 m	11 ton	22 kW
AF-TD-S-90	AF-TD-S 90+	90 m <sup>2</sup>	12 m <sup>2</sup>	8.3 m x 2.0 m x 2.4 m	17 ton	37-55 kW
AF-TD-S-110	AF-TD-S 110+	110 m <sup>2</sup>	13 m <sup>2</sup>	8.0 m x 2.4 m x 2.6 m	25 ton	45-75 kW
AF-TD-S-170	AF-TD-S 170+	170 m <sup>2</sup>	17 m <sup>2</sup>	10.1 m x 2.4 m x 3.0 m	35 ton	90-110 kW
AF-TD-S-200	AF-TD-S 200+	200 m <sup>2</sup>	21 m <sup>2</sup>	11.2 m x 2.4 m x 3.0 m	45 ton	90-110 kW
AF-TD-S-300	AF-TD-S 300+	300 m <sup>2</sup>	29 m <sup>2</sup>	13.1 m x 2.5 m x 3.3m	52 ton	110-132 kW
AF-TD-S-400	AF-TD-S 400+	380 m <sup>2</sup>	33 m <sup>2</sup>	13.3 m x 3.0 m x 3.7m	77 ton	132-160 kW
AF-TD-S-500	AF-TD-S 500+	477 m <sup>2</sup>	39 m <sup>2</sup>	13.5 m x 3.2 m x 3.9m	95 ton	160-200 kW
AF-TD-S-600	AF-TD-S 600+	603 m <sup>2</sup>	46 m <sup>2</sup>	14.5 m x 3.5m x 4.0m	100 ton	160-200 kW

Note: Other dryer sizes can be available by increasing/decreasing the number of discs on the rotor.