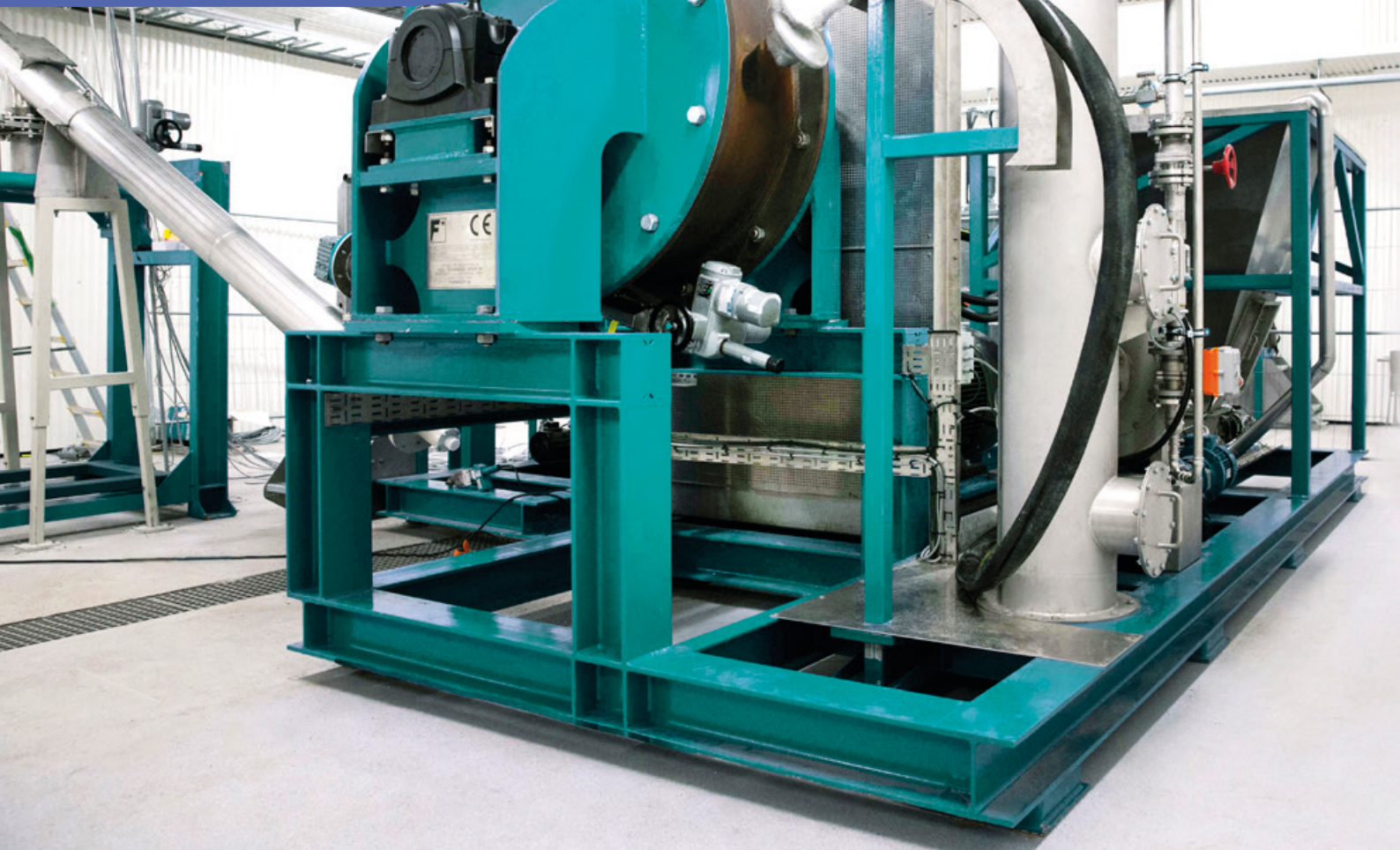




FJELL FRS TMD[®]

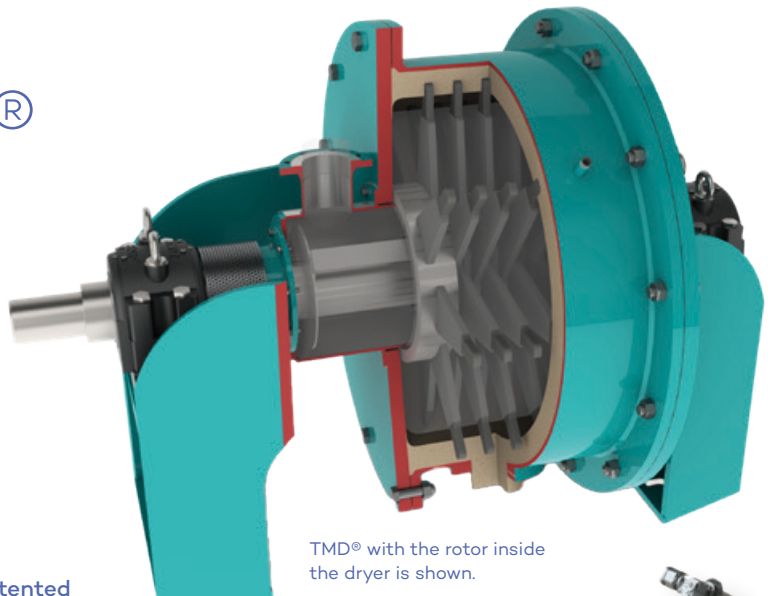
THE FISH SLUDGE DRYER

Technology
for value circle



FJELL FRS TMD®

THE FISH SLUDGE DRYER



TMD® with the rotor inside the dryer is shown.

The design

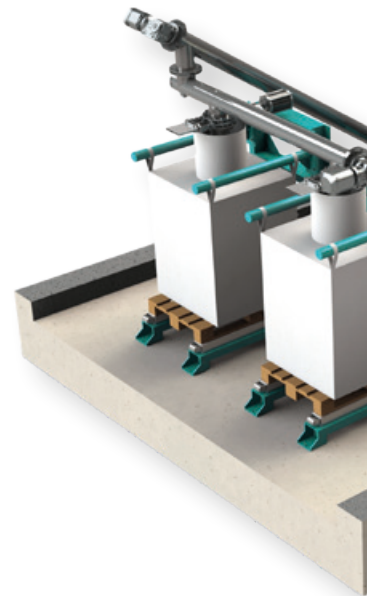
The TMD®-dryer is a very compact and special patented friction drying technology. The dryer is referred to as a Thermo-Mechanical Dryer (TMD®) and is sold by Fjell Technology Group in collaboration with Thermtech AS.

- Difficult drying
made easy!

Fully automated process with just one click startup process and automatic switch to standby modus after ended drying session. The result? Fully sanitized, and storage stable sludge!

The TMD® dryer is a rotational machine, consisting of a stator and a high-speed rotor.

The rotor sets the bed of material to be dried in motion, so that there is a violent agitation with a following heat generation from the rotor arms to the bed.



How it works

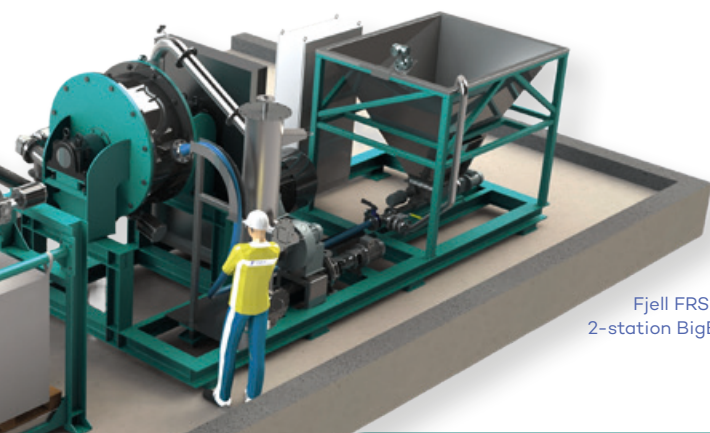
- Hammer mill tailor made for fish sludge.
- Fully sanitized and storage stabile sludge with dry matter content 92-95% as the end product.
- One click startup process.
- All the operation time runs in parallel with new sludge entering the storage/the hopper tank. The TMD®-dryer automatically switches to stand by modus when a defined low level is reached in hopper tank.
- The Thermo Mechanical Dryer (TMD) dries the sludge by friction.
- Automatic temperature control.
- The TMD-dryer handles the glue phase of the sludge without problem.
- Exhaust gas and odors are cleaned by an advanced scrubber and condenser system.



SMR – Sludge Dryer Hub with TMD®400.

Unique benefits of the FJELL FRS TMD® dryer

- Extremely compact process.
- Fast and easy start up and shut down process.
- Sanitized and storage stable sludge.
- Can be remote controlled.
- Simple installation.
- Requires minimal supervision and maintenance.
- Minor man-hour requirements during operation.
- Can be delivered in container for outdoor or marine sites.
- Fundamentally hazard free process.
- High thermal efficiency (>95%).
- No heating medium like steam, hot oil or hot air required.
- The TMD® solution is scalable to meet any capacity need.



Fjell FRS TMD® 100 on skid with 2-station BigBag-system.

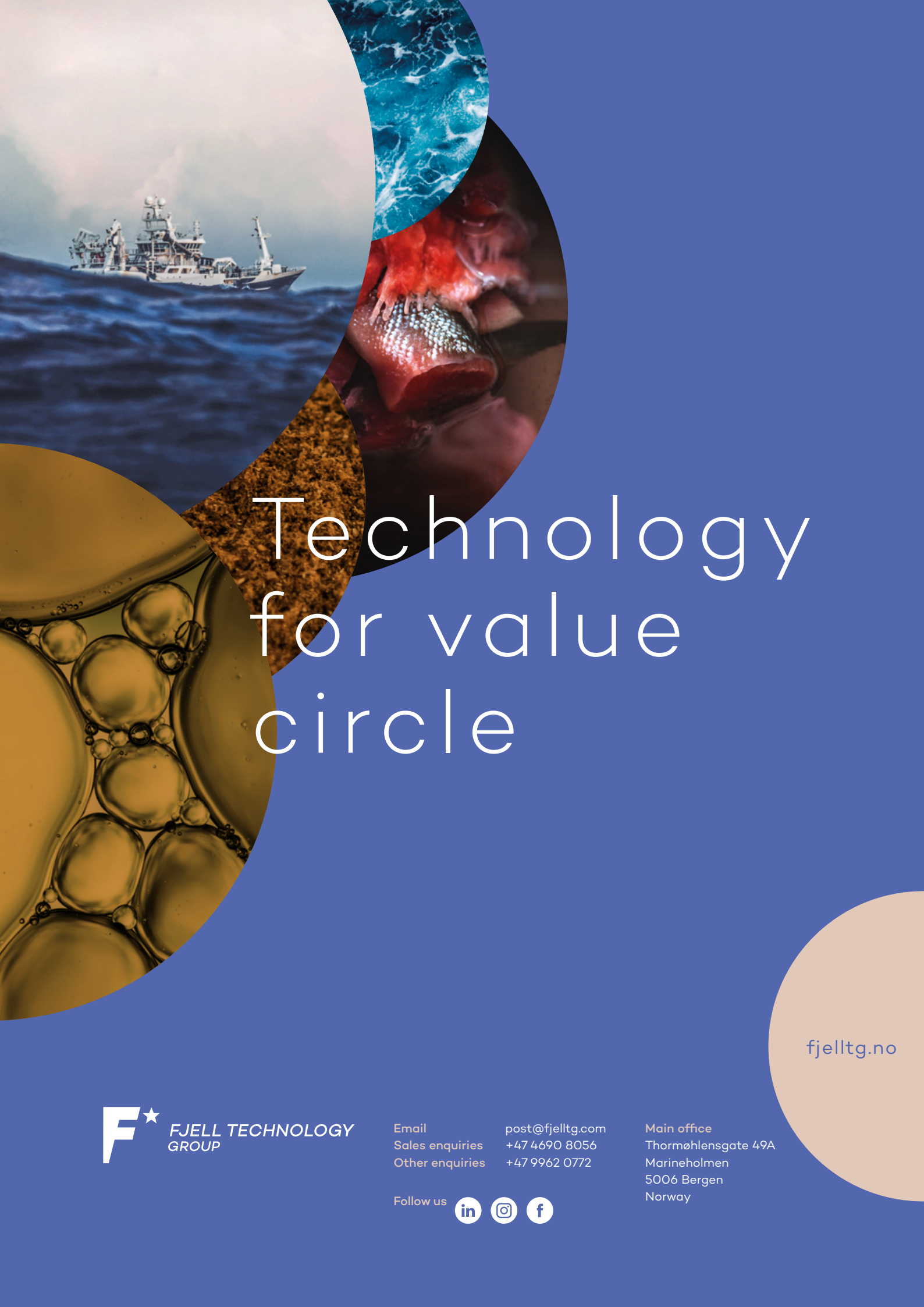
Applications

- Sludge from aquaculture and fish processing plants.
- Sludge from municipal wastewater treatment plants.
- Biogas plant digestate.
- Spent grains from distilleries and breweries.
- Industrial bio-sludge and mineral sludge.
- Other organic residual raw material.
- Industrial waste.



Fjell FRS TMD®150 at Norwegian salmon smolt farm.

MODEL RANGE	CATEGORY	CAPACITY	FOOTPRINT (m)	DRIVE UNIT (kW)
TMD100	SMALL	≈ 125L/hr	6 x 2,4 x 3,5	100
TMD150	SMALL	≈ 185L/hr	6 x 2,4 x 3,5	150
TMD200	MEDIUM	≈ 250L/hr	6 x 2,4 x 3,5	200
TMD250	MEDIUM	≈ 310L/hr	6 x 2,4 x 3,5	250
TMD300	LARGE	≈ 375L/hr	6 x 2,4 x 3,5	300
TMD400	LARGE	≈ 500L/hr	6 x 2,4 x 3,5	400



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