

Steam Tube Rotary Dryer

The Steam Tube Rotary Dryer (STRD) is a conduction dryer and consists of a horizontal rotating shell fitted with a large number of heating tubes. As the shell rotates the material to be dried is brought into contact with and cascades through the tubes. Evaporated moisture is removed by a purge of air drawn through the dryer.

The STRD can be supplied with peripheral or centre discharge dependent upon whether inert gas sealing or solvent recovery is required. The peripheral discharge dryer usually employs parallel vapour flow whereas counterflow is used in the centre discharge unit.



2.8m dia x 19.6m STRD



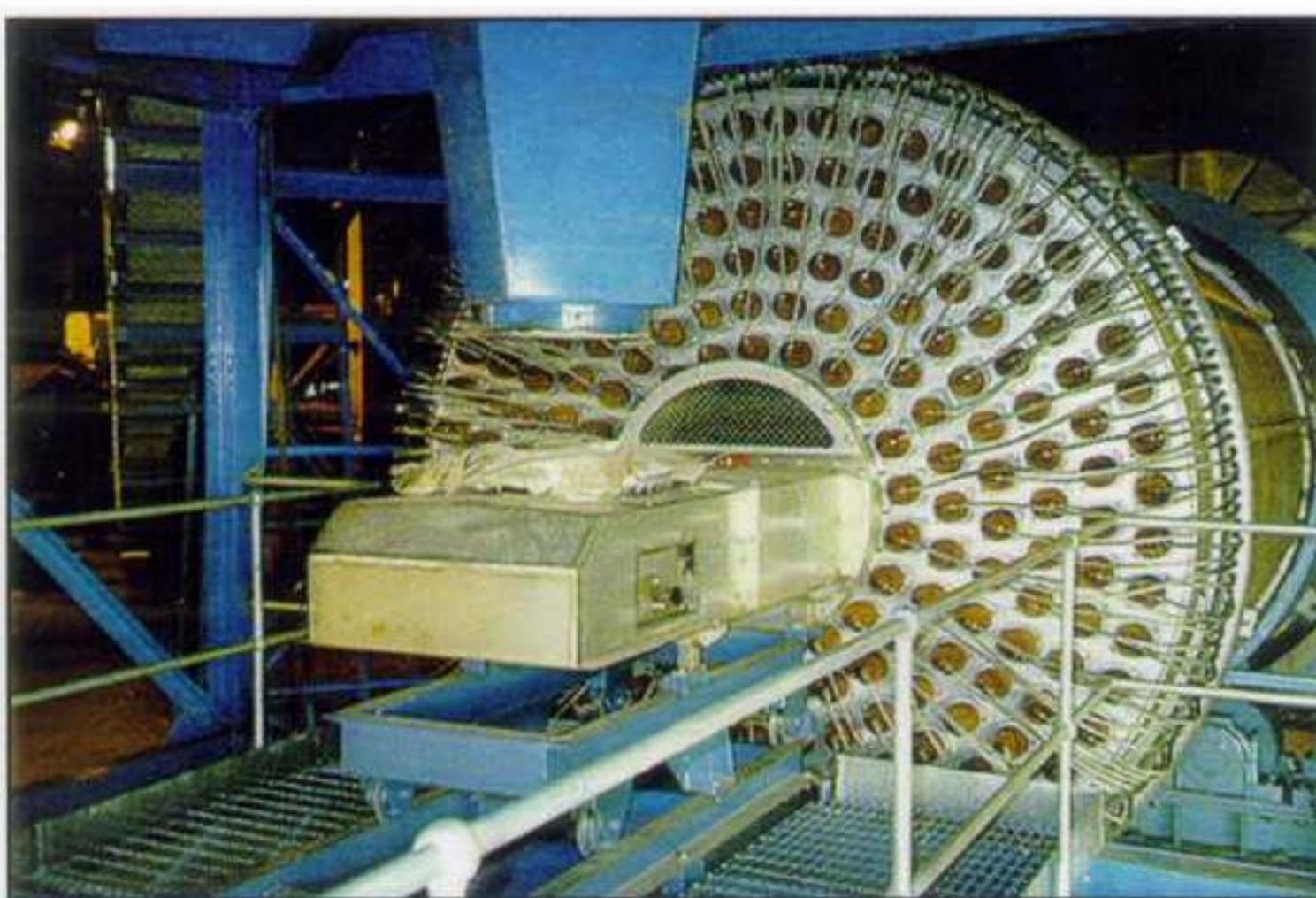
Drying of Papermill sludge

Features include:

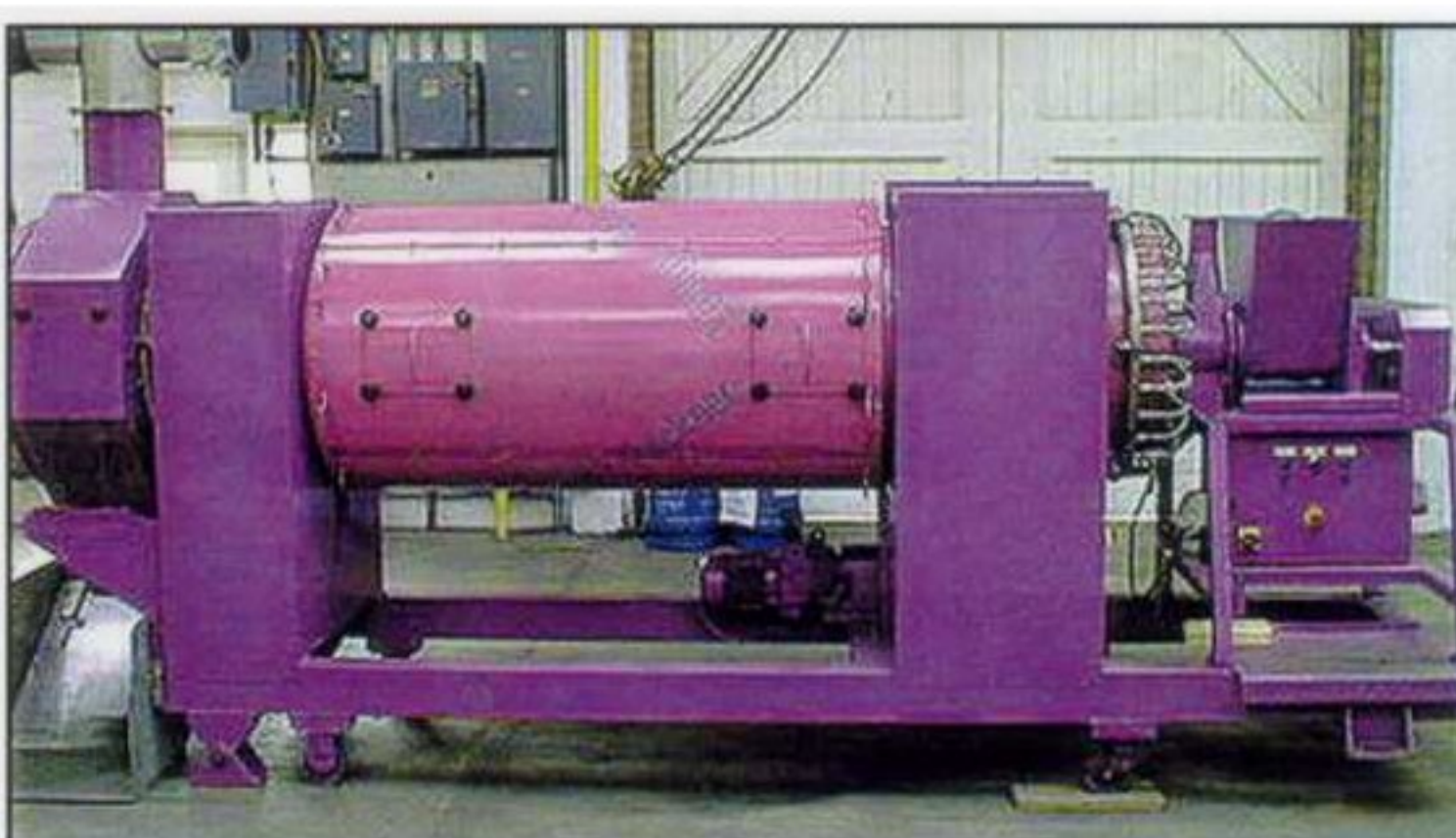
- Large heat transfer area per unit volume
- Steam, hot water heating
- High heat transfer coefficient
- Low temperature drying
- Low purge air volume and therefore low exhaust gas clean-up
- Peripheral or centre discharge
- Low operational costs and maintenance
- Low electrical demand
- Negative or positive pressure operation
- Inert gas sealing
- Easy operational control

Steam Tube Rotary Dryer

Materials processed include: Brewers Spent Yeast; Bio-solids; Caustic Soda; Copra; Copper Concentrate; Corn Gluten; Corn Fibre; Cotton Seed Meal; Distillers Spent Grain; Feather Meal; High Density Polyethylene; Industrial Sludge; Isothalic Acid; Papermill De-diluted Sludge; Pure Terephalic Acid; Solid Ash; Soybean Conditioner; Soybean Flake; Terephalic Acid etc. etc.



Feed End 3.25m Dia STRD



Pilot plant available for on-site client testing with approximately 80kgs/hour evaporative capability



Discharge End 3.25m dia STRD

The Mitchell Steam Tube Rotary Dryer is manufactured under license from Davenport Machines of Iowa, USA.

Comprehensive test facilities covering our full range of dryers available in Carlisle.

Our range comprises: continuous band dryers; indirect/direct fired rotary dryers and calciners; thermal Venturi dryers; batch/continuous vacuum dryers; fluid-air dryers; coolers; cabinet/tray dryers; drum warming ovens.

Mitchell Dryers Limited

Denton Holme
Carlisle Cumbria
CA2 5DU
England

LEADERS IN DRYING TECHNOLOGY

Tel: (01228) 534433
Fax: (01228) 401060
eMail: info@mitchell-dryers.co.uk
www.mitchell-dryers.co.uk



© 2000 Mitchell Dryers Ltd

MD61/B