Natural and Synthetic Fibers.
Through-air drying, conditioning, thermal bonding, curing, finishing, cooling.
AeroDry™ Thermal Processing for Fibers.
Gentle, efficient drying for high quality products.

Process Features
- Integral heating and air handling components keep the installation compact, saving floor space (remote placement also available)
- Numerous full height perimeter access doors simplify cleaning, reduces downtime and risk of cross-contamination
- Efficient, non-conductive panel minimizes heat loss
- Zoning and advanced airflow management guarantee uniform processing and high quality product
- Snag resistant interior design minimizes collection points for dust and debris
- Engineered plenum for uniform air distribution
- Heating configurations include electric, gas, steam, and thermal fluid
- Modular or field assembly construction options
- Multiple sequential temperatures zones
- Multiple feeder styles for consistent bed loading

Applications
Forms:
- Staple
- Tow
- Webs

Products:
- Acetate
- Acrylic
- Cellulose
- Nylon
- Rayon
- Bleached cotton
- Polyester
- Polypropylene
- Pulpwood fiber

With its AeroDry product line, Bühler provides thermal processing solutions for a variety of fiber products. Applications include textile-grade and nonwovens-grade fibers, automotive, filtration, healthcare, insulation, synthetic leather and technical textiles. Every dryer features high performance and energy efficiency, with minimum down time for cleaning and maintenance.

Through-air conveyor dryers are the choice for fiber and web applications that require gentle through-flow processing and support throughout the heating process. Products requiring extended dwell time, in-line temperature profiling for heat setting, thermal bonding and cooling are all accommodated. Conveyor bed permeability is sized to optimize drying performance.

Impingement dryers with custom air nozzles offer high drying and finishing efficiency for coated and nonpermeable (nanofiber based) webs.

Options
- Multi-stage systems for product reorientation
- Airflow: up-flow, down-flow or impingement
- Integral cooling zone
- Humidification and conditioning control
- Heat recovery
- Control packages: relay logic or PLC based
- Continuous lint and dust filtration
- Specialty feeders

Diffuser plates feature gradient pattern for uniform air distribution
Ample interior access through full height perimeter access doors
Installation Flexibility. Bühler conveyor dryers are available in modular or field assembly configurations. Customers enjoy reduced installation cost and start-up time with the standard modular design. These units are fully assembled and tested at the factory prior to shipping. This allows the fastest possible installation with reduced field connection points.

Field assembly construction is available for installations in space constrained areas. This design allows a dryer of any size to fit into standard shipping containers for cost-effective transport. Once at the destination, individual crates are able to fit through narrow openings of freight elevators and doorways. The entire system is assembled at the customer’s site, often with local labor and supervision by a Bühler technician.

Product Development and Testing. Customers developing new products will appreciate Bühler’s continuous lab dryer. This unit is capable of pilot scale product testing in several configurations including dual impingement and through-air. In addition to testing at the Bühler drying lab, customers may lease equipment for use at their facility.