

Air-Jet-Dryer for the Spotfree Drying of Delicate and Critical Parts



Principle Function

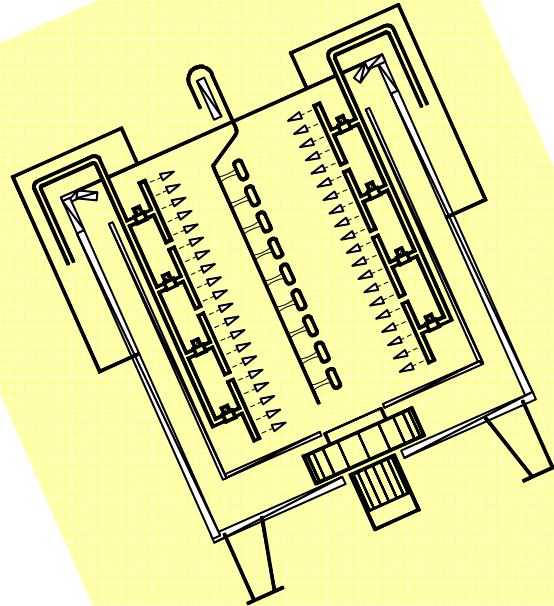
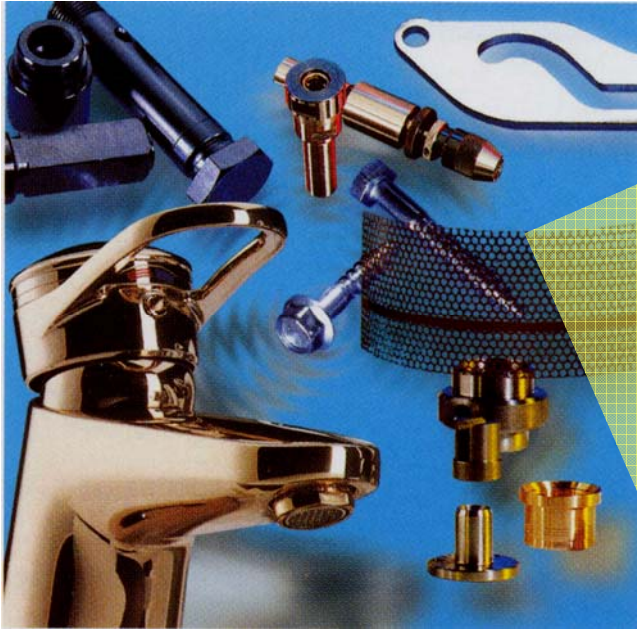
The parts, mounted on a jig, are placed into the Air-Jet-Dryer. Inside the Air-Jet-Dryer there are two vertical racks, mounted on either side, which move laterally alongside the article to be dried. Both racks are configured with solenoid controlled airjet-nozzles that direct compressed air over the article. By directing timed pulses or continuous blasts of air, the adhering drops are turned into a mist and drawn away through the exhaust. The remaining moisture film is so thin, that it cannot form drops and evaporates at a very low temperature. The result is spot-free drying.

Area of Operation

This design has been very successful for a wide variety of parts, with no limitations regarding the area of operation, materials or shape of the parts to be dried. Parts-specific trial tests can be conducted any time in our work shop in Hergiswil, Switzerland.

System Description

The Air-Jet-Dryer is available as a single unit or can be integrated onto an existing processing line. Constructed with the latest technical standards, this Air-Jet-Dryer removes water from the part rather than evaporating it. Depending on the type of parts, heating may not be necessary.



Practical applications

Areas of Operation

Sanitary industry
 Decorative industry
 Electronic industry
 Optical industry
 Medical industry
 Home industry

components for IC manufacturing ...
 jewelry, clocks, fasteners/caps, precious metal finishing ...
 conductor panels, PCB's, critical surfaces ...
 prisms for measurement technology, lenses, eyeglass lenses ...
 medical hardware, prosthetics, hip-joints ...
 discharge strainer for dish washers ...

Surfaces

Zink passivate
 High-glossed chrome, gold, copper, brass
 Matt surfaces on basic nickel, brass, gold
 Matt black surfaces
 Chromed surface and sealing

Advantages over conventional drying methods

- ✓ Reduces labor by eliminating the need for hand polishing.
- ✓ Pure mechanical system , i.e. no burden to the environment
- ✓ Allows for complete, spotless drying of intricate parts automatically.
- ✓ Simple to operate.
- ✓ Greatly decreases drying time. One Air-Jet-Dryer can replace of two to three conventional dryers:
 It requires less floor space, which
 reduces energy consumption and operating costs.
- ✓ Increases adhesion for follow-up coatings
- ✓ Less air consumption as opposed to similar drying systems.
- ✓ Price vs. performance is very reasonable
- ✓ Long life expectancy
- ✓ Can be used together with another module to recover valued material.

Subject to change!

Branch offices