

SolvAir

# Air Knife Systems

The Cutting Edge Of  
Process Productivity

**PAXTON**  
PRODUCTS



# Systems Expertise



Paxton has been a leading pioneer in Air Knives and high-flow Centrifugal Blower development for the past 25 years. Our experience has led to our expertise in the design of efficient and effective Air Knife Drying Systems. As Air Flow Systems experts, we have refined today's Air Knife designs for "precision drying", including coating control, air curtains, removing dust and unwanted materials, as well as many other valuable applications.



## How is the Air Knife System used?

Paxton Air Knife Systems use a precision-engineered linear slot to direct and utilise high velocity air from a centrifugal blower to:

- **Dry and remove liquid films from surfaces**
- **Control surface coating**
- **Blow off dust and debris**
- **Convey, hold down or cushion materials with air**
- **Cool/heat materials**
- **Provide air curtain/barrier**
- **Neutralise static charges**

Paxton Air Knives are powered by a perfectly matched, energy-efficient Paxton Centrifugal Blower, and operate effectively at conveyor line speeds in excess of 10 metres per second.

# Food & Packaging

Paxton Air Knife Systems provide innovative, cost-effective advantages for food processors. Speed, versatility and hygienic performance make them indispensable in high-speed processing.



## Versatile and Compact

### Meat, Poultry, Fish, Cheese, Frozen Foods

- ▶ After shrink tunnels
- ▶ Before labelling
- ▶ Before freezing
- ▶ Coating control

### Confectionery

- ▶ Chocolate coating

### Produce

- ▶ After-wash drying

### Crates & Trays

- ▶ Prevents bacteria
- ▶ Minimise water transfer

### Canning

- ▶ Before labelling
- ▶ Before inkjet coding
- ▶ Corrosion protection

### Conveyor Belts

- ▶ Moisture removal
- ▶ Debris removal

# Beverage & Bottling

Paxton Air Knife Systems are ideal for bottling, packaging, canning and any pouch applications. Fast throughputs, corrosion prevention, rapid cleaning and dry off stand them clearly apart from the competition.



## Energy Efficient Performance

### Bottles & Jars

- ▶ Before labelling
- ▶ Shrink sleeve application
- ▶ Crown caps
- ▶ Before inkjet coding
- ▶ Eliminate droplet stains

### Canning

- ▶ Eliminate stress corrosion
- ▶ Before inkjet coding
- ▶ Prevents bacteria

### Crates & Trays

- ▶ Prevents bacteria
- ▶ Minimise water transfer

### Final Packing

- ▶ Shrink wrapping
- ▶ Cardboard cartons

### Pouches

- ▶ Labelling
- ▶ Inkjet coding
- ▶ After rinsing

# Industrial & Electronic

Paxton Air Knife Systems provide a wide diversity of benefits for industrial processes and component manufacturing over a variety of industry sectors. A powerful tool with an extensive range of industrial applications.



## Diverse Benefits for Industry

### PARTS DRYING

#### Precision – Clean Room / HEPA

- ▶ Body medical devices
- ▶ CD & DVD manufacturing

### Industrial

- ▶ Powder paint lines
- ▶ Automotive parts
- ▶ Tyre production
- ▶ Rolled steel
- ▶ Coating control
- ▶ Glass sheets
- ▶ Wire & cable

### Critical Components

#### – 100% Dry

- ▶ Circuit boards
- ▶ Optical components
- ▶ Electronic parts/assembly

### BLOW-OFF

#### Industrial

- ▶ Metal swarf
- ▶ Dust and debris
- ▶ Oil & lubricants

### STATIC CONTROL

- ▶ Static neutralisation



**100%**  
**PERFORMANCE**  
**GUARANTEED**

## Experience backed by a **cast-iron warranty**

Experience is the key to Paxton's success. We set the industry standard for performance and reliability. Decades of superior design are supported by our team's expertise in providing systems configured to meet all our customer requirements. What's more, all Paxton products are backed by one of the strongest warranties in the business.

- ▶ **Paxton experts design superior systems**
- ▶ **Our excellence has set the industry standard for performance and reliability**
- ▶ **Every Paxton system is backed by an unsurpassed warranty**



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**SolvAir Limited is the European Sales and Service Centre for Paxton Products**