

Levitating conveyor device - Air-Kroll™ -

This equipment is used to convey thin and soft media such as film and metal foil by levitating them with air. We can also design to customer's desired shape and specification.

This product can solve the following issues:

- a) Prevent scratches caused by roller slippage during low tension conveyance.
- b) Uniform levitation enables non-contact conveyance.
- c) Obtain a wrinkle-free flat surface.

The porous ceramic levitating conveyor has excellent abrasion resistance and insulation properties.



Air-Kroll™ (φ97×L300)

Areas for Effective Deployment

In film conveying lines, free rollers installed for film passage rotate by receiving frictional force from the film. With these free rollers, there is a possibility of scratches occurring at the contact surface due to slippage, and folds or wrinkles forming on the film due to friction.

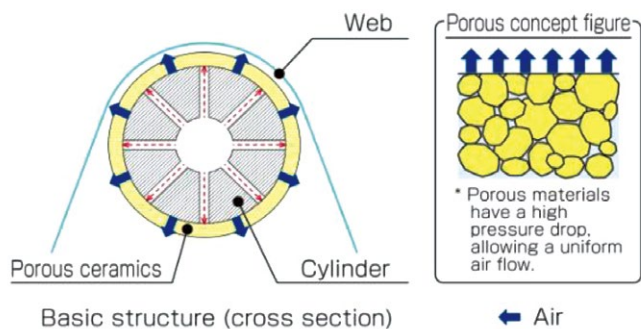
By introducing the levitating conveyor device into part of the conveying line, it becomes possible to enable non-contact conveyance of the film. Furthermore, by virtually eliminating frictional force, folds and wrinkles on the film can be effectively suppressed.



Usage Example of Air-Kroll™

Features

1. Consistent levitating performance: uniform and stable air supply from porous ceramics
2. Levitation is possible with a small amount of air: lifting uses compressed air
3. Excellent abrasion resistance
4. Excellent insulation performance
5. Low dust emission: negligible generation of organic matter due to non-contact design and use of high-temperature fired components.
6. Superior shape processing technology able to accommodate a wide variety of shapes



φ100×L2100 (Roller type)



150(R300)×L800 (D-shape type)