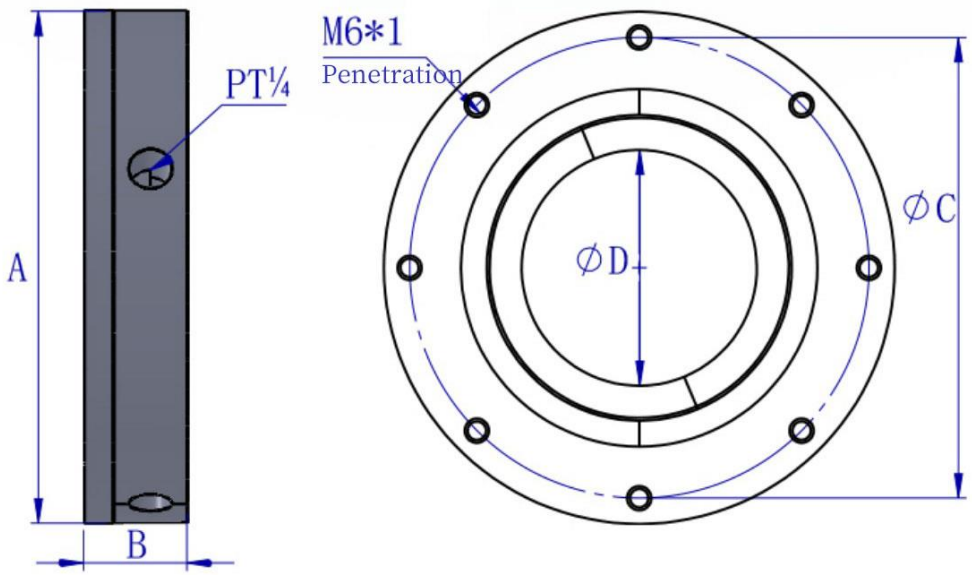
LHD Ring Air Knife

Dimensional Drawing



Side View

Front View

The above drawing is for reference only. Actual dimensions may vary.

Model	Inner Diameter (mm) D	Outer Diameter (mm) A	Thickness (mm) B	Hole Spacing (mm) C	Number of Air Inlets	Air Consumption (L/min)	Noise (dB)
LHD-8	8	75	28	61	2	320	68
LHD-13	13	80	28	66	2	350	69
LHD-25	25	92	28	80	2	490	70
LHD-38	38	107	28	91	4	610	72
LHD-51	51	118	28	104	4	720	73
LHD-64	64	139	28	122	4	800	74
LHD-76	76	143	28	129	4	880	75
LHD-89	89	155	28	138	4	950	75
LHD-102	102	169	28	155	4	1030	76
LHD-127	127	194	28	180	4	1370	76
LHD-140	140	207	28	193	5	1500	78
LHD-152	152	219	28	205	5	1670	80
LHD-178	178	245	28	231	6	1970	80
LHD-203	203	270	28	256	6	2340	82

The above air knife has an export gap of 0.05mm. Please note that parameters may vary with different air pressure and blade gaps.

Product Features

The ring air knife, also known as an air flow wiper, ring air blade, circular air knife, or circular air blade, utilizes its unique structure (360° uniformly high-pressure airflow) to provide cooling, drying, and cleaning solutions for applications such as pipes, cables, wire-extruded components, hoses, and more.

Strong airflow with even air distribution.

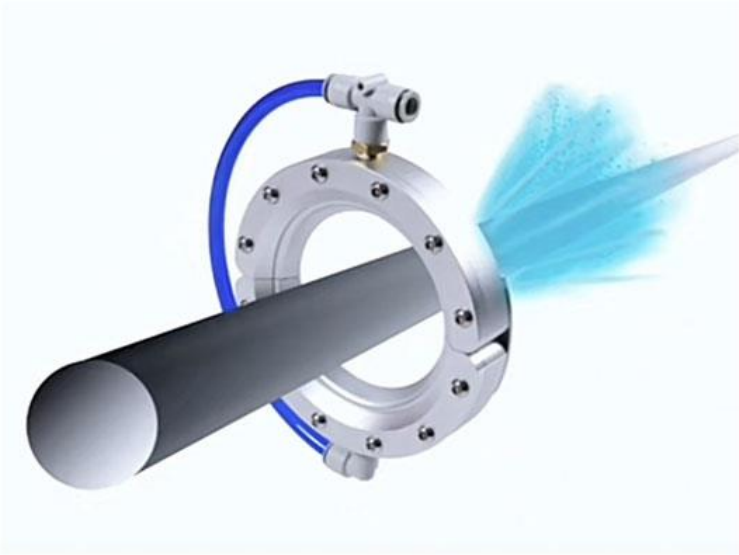
One-piece design with no moving parts, long lifespan.

Low noise, low air consumption,
and efficient use of compressed air.

Compact size, easy to install.

The working principle

Newly Optimized Upgrade, Industry 4.0 Quality



After compressed air enters through the air inlet of the air knife:

1. It enters the circular chamber of the air knife, and the airflow passes rapidly through the circular nozzles.
2. It expels a high-velocity stream of air towards the sidewall of the ring air knife, directing it along the circumferential side of the air ring at an inclined angle.
3. This creates a low-pressure zone at the central position on one side of the ring air knife.
4. When the airflow exits the ring air knife, it generates a 360° conical ring-shaped airflow. This uniformly powerful airflow can be consistently directed towards the material passing through the ring air knife.
5. It swiftly removes impurities, water, and contaminants from the surface of the material.

Product Showcase

Premium Material Selection, Precision Manufacturing, and Comprehensive Specifications

Low Air Consumption,
Air Compressor Efficiency

Application Scenarios

- Blowing away oil, debris, waste, water, and dust.
- Cooling molds or castings.
- Cooling extruded materials during the forming process.
- Substituting for open compressed air blowing nozzles for post-processing cleaning of parts.
- Continuous cooling of long components (wire and tubing).
- Drying required after cleaning, washing, coating, or plating processes.
- Removing contaminants during the radial transport of materials.
- Providing an ideal drying solution for pipes, cables, extruded materials, wires, rulers, and tubing.