High efficiency nozzle

KNH Series +

RoHS

Increases the blow flow to about double the supply air quantity.

MAIN FEATURES

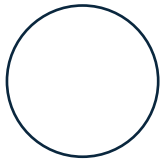
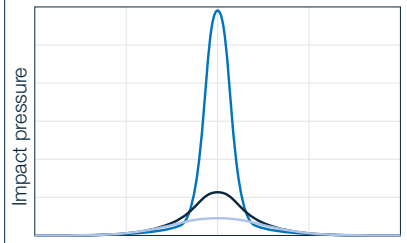
Improve the air blow thrust by 10 %
Thanks to the Bernoulli effect.

Maximise air blow efficiency
More focused blowing impact.

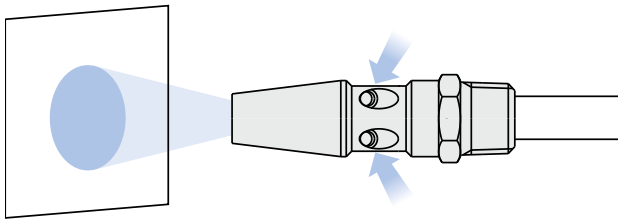
Reduce noise level
Small-diameter multi-hole structure option to reduce noise.

Compliant with OSHA standards
Prevents any pressure buildup when the outlet is blocked for safety.

ENERGY EFFICIENCY
DIGITAL SHEET

Jet shape	Pressure distribution diagram (Image)
 Distance from the workpiece: 100 mm	

Distance from the workpiece
Far
Close



KHN case study

A beer can drying process originally consumed 2,460 l/min of compressed air at 6 bar, resulting in 664,200 m³ annual consumption and €11,623.50 in yearly energy costs (based on 4,500 operating hours). After replacing the existing blowing components with SMC high-efficiency KNH nozzles and operating at 5.7 bar, air consumption dropped to 1,476 l/min, reducing annual usage to 398,520 m³. This achieved annual savings of 265,680 m³, equivalent to approximately 4,650 €, without compromising process performance.

Key customer benefits:

- Reducing air consumption with performance
- No demands for process change.

Investment	**300** €
Annual saving	**4,650** €
ROI	**0.8** months
Annual CO_2 reduction	**65,092** kg

SELECTED PART NUMBERS

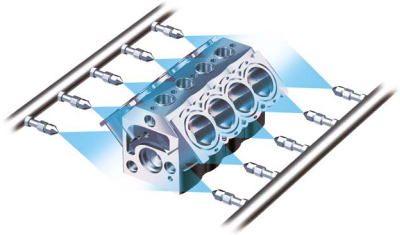
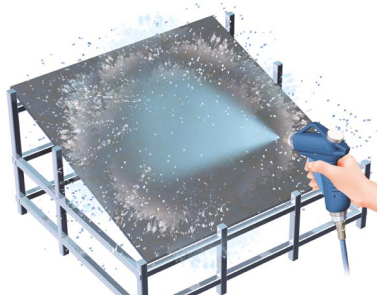
Part number	Nozzle Ø [mm]	Piping thread
KNH-R02-100	1	R1/4
KNH-R02-150	1.5	
KNH-R02-200	2	

APPLICATIONS

Bottle cleaning

Removal of foreign matter

Machining chip removal



Blowing water droplets