

PCC54

Ionising Flex Nozzle

The antistatic rotating nozzle for objects, cavities and surfaces up to 100 mm.

The compact solution for ionizing cleaning with compressed air in all areas of production - more **sustainable** and less expensive than wet cleaning.

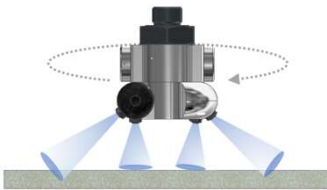
The rotating air nozzle creates a **pulsating and turbulent anti-static** air flow and optimizes the whirling up and detachment of the particles from the surface.

The previously patented automatic speed control guarantees a constant and pressure-independent speed, which ensures **process reliability** in automated operation.

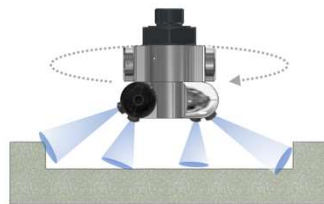


Applications

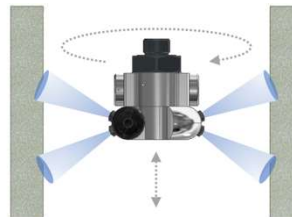
Cleaning object surfaces



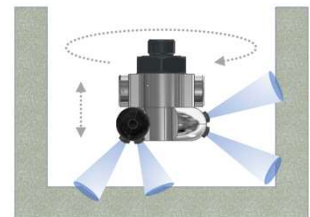
Cleaning grooves and crevices



Cleaning of inner walls and pipes



Cleaning of blind holes and threads



Special Properties

To optimally adapt the nozzle to the cleaning problem, the design of the PCC54 offers several advantages.



Angle adjustment of the nozzle units

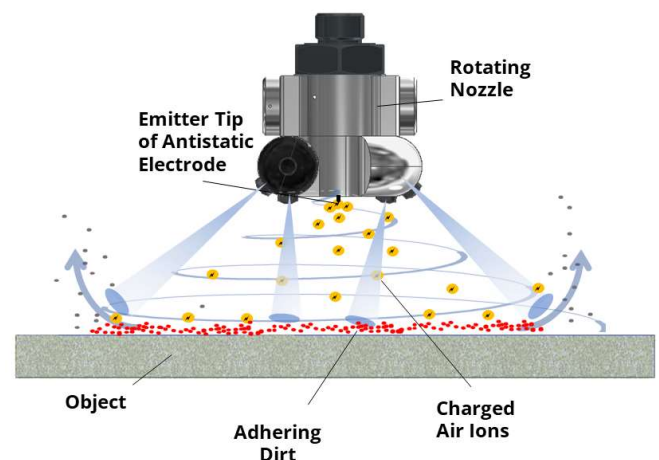
The nozzle holders can reach the **cleaning points** independently of each other up to a total angle of 195°.

Number of nozzle units per nozzle holder

In order to increase the **effective area**, nozzle holders with one, two or three nozzle units can be selected and retrofitted.



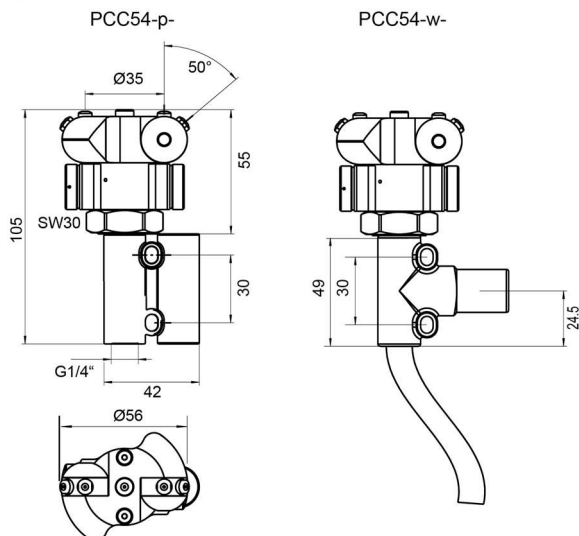
Ionization to neutralize material and particles.



The air ions generated at the tip are entrained by the jets and **neutralize** material and/or dirt particles, facilitating cleaning.

PCC54 Ionising Flex Nozzle - Datasheet

Dimensions



Technical Specification

Operating range	15 - 50 mm, optimal 15-25 mm	
Effective diameter	Axial: max app.. 65 mm @10mm, app. 80 mm @25 mm, app. 110 mm @50mm distance Radial: max. 150 mm, optimal 80-110 mm	
Nozzle numbers	2 x 3 max. at 10°, 20° and 30° airbeam angle	
Pressure	4 – 10 bar, recommended: 5 - 8 bar	
Compressed air requirement	oil-free, filtered: filter fineness < 20 m, at least class 2 ISO 8573-1:2010	
Connection	Fast-connect for OD 10mm tubes	
Rotational speed	750 1/min +/- 8%	
Ionisation	5kV on long-life touch safe tungsten emitter tips	
Sound Pressure	75 db(A)	
Bearings	>10 years	
Weight	310g	
Material	Nozzle body:	Aluminium
	Nozzle Unitse:	Stainless steel
	Axle:	galvanised brass
Environment	0 - 60°C and < 80% rH (no dew)	

Scope of Delivery

- Ionising rotary nozzle PCC54 consists of Nozzle, ioniser and tungsten emitter tip
- Nozzle units with diameter of your choice mounted in selected positions
- Mounting Instructions

Variants/Order Info

PCC54-p	Nozzle incl. electrode with parallel connection (air and high voltage downwards)
PCC54-w	Nozzle including electrode with angled connection (air downwards, high voltage 90 degrees to the side)
-X.X	Number N nozzle units with opening X.X in mm (0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0)
-ESD	With ionizer for ESD appl.
-Y	Nozzle Holder Y: S= Single (1DE), Z=Twin (2), D=Triplet (3)

Air Consumption in l/min

mm	@5 bar		@8 bar	
	-S Hold	-Z Hold	-S Hold	-Z Hold
0.6	69	111	110	161
0.8	85	141	136	207
1.0	133	214	188	328
1.2	173	307	258	463
1.4	209	375	317	577
1.6	264	491	403	753
1.8	335	604	491	924
2.0	419	764	625	1134

(more values on request)

Spare Parts

000 001 013-d	Nozzle unit with opening d=diameter 0.6-2.0 mm
CIN54-x.x-Y	Replacement nozzle body
900 001 001 / 2	Discharging electrode, 5 kV, highvoltage conn axial /angled for PCC52-p / -w

Accessories

900 002 051	High-voltage power supply ES50/S20A with 5 connections, each with 5kV AC, supply 230V AC
KE/LW050	HV Cable 5m