

PCC52

Ionising Spot Nozzle

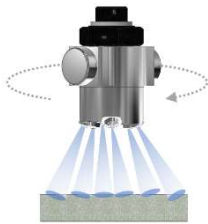
Concentrated antistatic power for surfaces up to 65mm and indentations.

The PCC52 - the robust **powerhouse** with maximum cleaning performance in a compact design and powerful ionization - 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

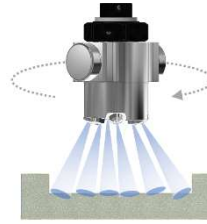
Concentrated cleaning of object surfaces



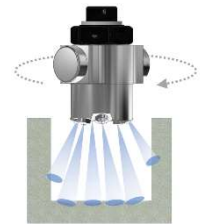
Cleaning of drill holes/recesses



Cleaning of grooves and crevices



Cleaning of smaller blind holes



Special Properties

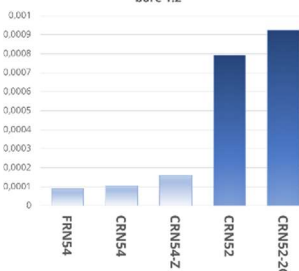
To optimally adapt the nozzle to the cleaning problem, the design of the PCC52 offers several advantages.

Effective angle 70° in 10° steps



Effective diameter Ø 65 mm @25 mm distance

Effective force in N per mm² @25mm with bore 1.2



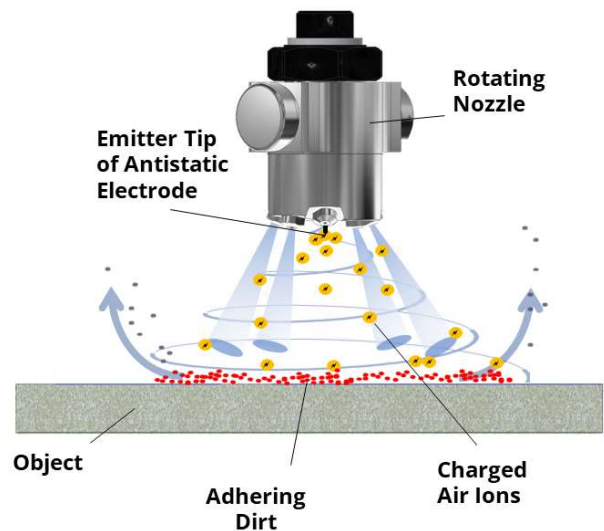
Angle positions of the nozzle units

The nozzle units can be aimed to the **cleaning point** pairwise in 10° steps (each 10, 20 and 30°).

Concentration of thrust force to a small area

To increase **the effective force**, the openings of the nozzle units are focused on a smaller area, see effective force per mm² compared to other nozzle types in graph.

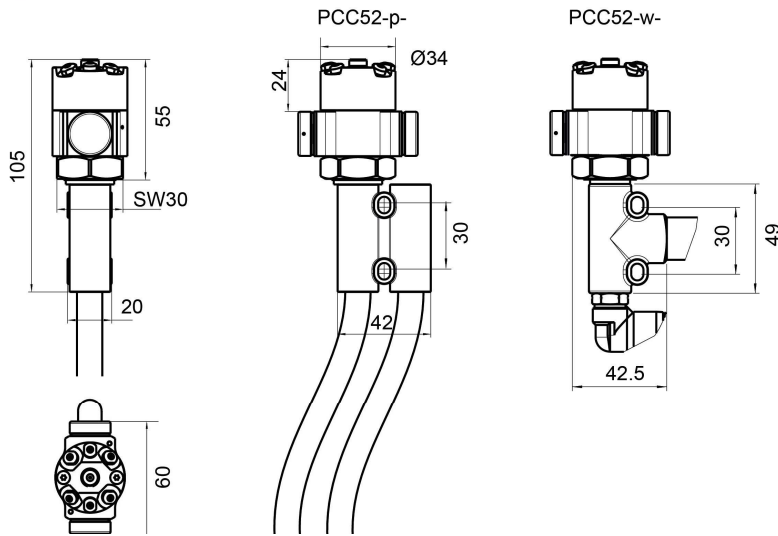
Ionization to neutralize material and particles.



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

PCC52 Ionising Spot Nozzle - Datasheet

Dimensions



Technical Specification

Operating range	15 - 50 mm, optimal 15-25 mm	
Effective diameter	Axial max ca.. 50mm @10mm, 100mm @50mm distance	
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	G: ¼ "	
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	165g	
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 PCC52 consists of Nozzle, ioniser and tungsten emitter tip
- Nozzle units with diameter of your choice mounted in selected positions (Partial assembly of the 3 angle positions possible)
- Mounting Instructions

Variants/Order Info

PCC52-p	Nozzle incl. electrode with parallel connection (air and high voltage downwards)
PCC52-w	Nozzle including electrode with angled connection (air downwards, high voltage 90 degrees to the side)
-NxX.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 electrode for ESD applications

Air Consumption in l/min

mm	@5 bar	@8 bar
0.6	152	213
0.8	198	291
1.0	316	467
1.2	448	668
1.4	552	851
1.6	707	1054
1.8	846	1254
2.0	1046	1631

(more values on request)

Spare Parts

000 001 013-d	Nozzle unit with opening d=diameter 0.6-2.0 mm
CIN52-Nxd	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