

CRN22

Mini Spot Nozzle

The smallest speed-controlled rotary nozzle with the highest cleaning performance.

The CRN22 – the **ultra-small powerhouse** with the highest cleaning performance in a small design with no interfering contours. – more **sustainable** and less expensive than wet cleaning.

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

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

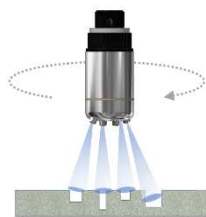


Applications

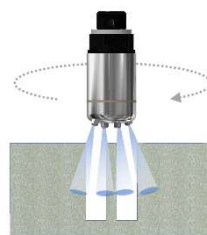
Smallest nozzle for smallest applications



Concentrated cleaning of surfaces and crevices



Cleaning of drill holes



Internal cleaning of pipes and hollow bodies



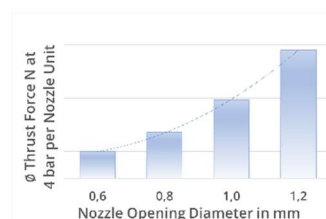
Special Properties

To optimally adapt the 22mm nozzle to the cleaning problem, the design of the CRN22 offers several advantages.



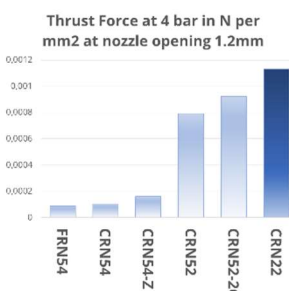
Angle positions of the nozzle units

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



Size of the nozzle opening

To increase the **thrust force**, the openings of the nozzle units can be selected from 0.6 to 2.0 mm.



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.

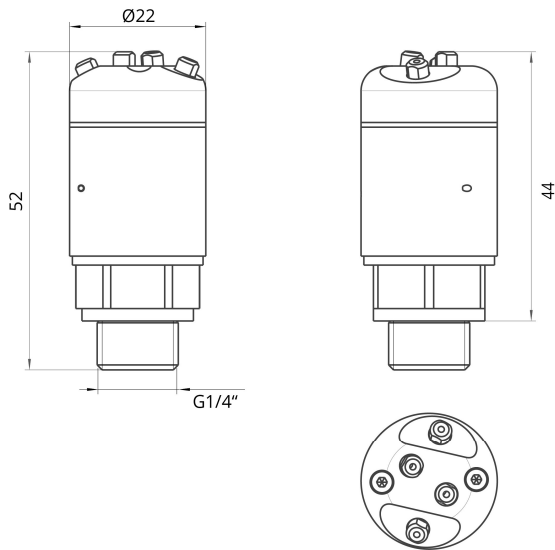


Extra nozzles in the center

To also reach axial problem areas such as boreholes, the upper part of the nozzle has 2 **focused center nozzles** (0 and 8° inclined towards each other).

CRN22 Mini Spot Nozzle - Datasheet

Dimensions



Variants/Order Info

CRN22-	Base article code
-x.x	Nozzle units (DE) with opening diameters x.x in mm (0.6, 0.8, 1.0, 1.2)

Technical Specification

Operating range	15 - 50 mm, optimal 15-25 mm	
Effective diameter	Axial max ca.. 40mm @25mm distance	
Nozzle numbers	Each one at 22° and 25° plus 2 in center with 0° and 8° airbeam angle	
Operating pressure	3 - 5 bar, recommended:4 - 5 bar	
Compressed air requirement	oil-free, filtered: filter fineness < 20 m, at least class 2 ISO 8573-1:2010	
Connection	G1/4"	
Rotational speed	1150 1/min +/- 8%	
Sound pressure	75 db(A)	
Lifetime of bearings	>10 years	
Weight	61g	
Material	Nozzle body:	Aluminium
	Nozzle Unitse:	Stainless steel
	Axle:	Stainless steel
Environment	0 - 60°C and < 80% rH (no dew)	

Air Consumption

Bar	opening 1.0 mm
4	248
5	290

(more values on request)

Spare Parts

000 109 110-dd	Nozzle unit with opening d=diameter 0.6, 0,8, 1,0, 1.2mm
000 109 016	Seal ring nozzle bearing
900 001 589	deep groove ball bearing
900 001 123	Locking ring

Scope of Delivery

- CRN22 rotary nozzle
- Nozzle units with diameter of your choice mounted in selected positions (Partial assembly of the 3 angle positions possible)
- Sealing ring 3/8" compressed air connection
- Mounting Instructions

Accessories

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