

CRN54

Flex Nozzle – the Adjustable Allrounder

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

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

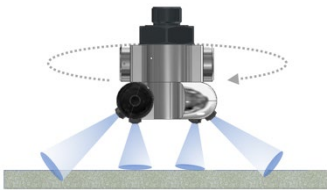
The rotating air nozzle creates a **pulsating and turbulent** air flow and optimizes the whirling up and detachment of the particles from the surface.

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

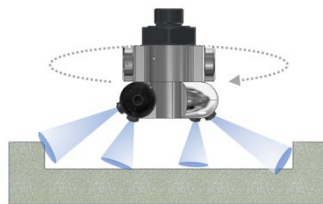


Applications

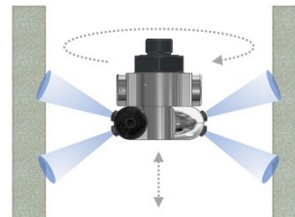
Cleaning object surfaces



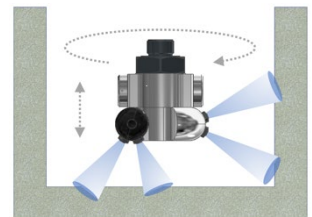
Cleaning grooves and crevices



Cleaning of inner walls and pipes

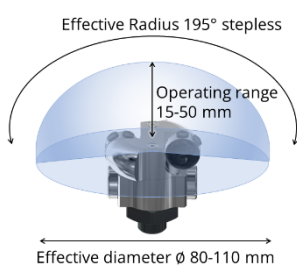


Cleaning of blind holes and threads



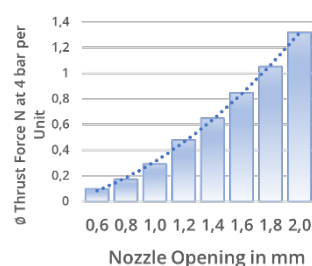
Special Properties

To optimally adapt the nozzle to the cleaning problem, the design of the CRN54 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°.



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.



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.

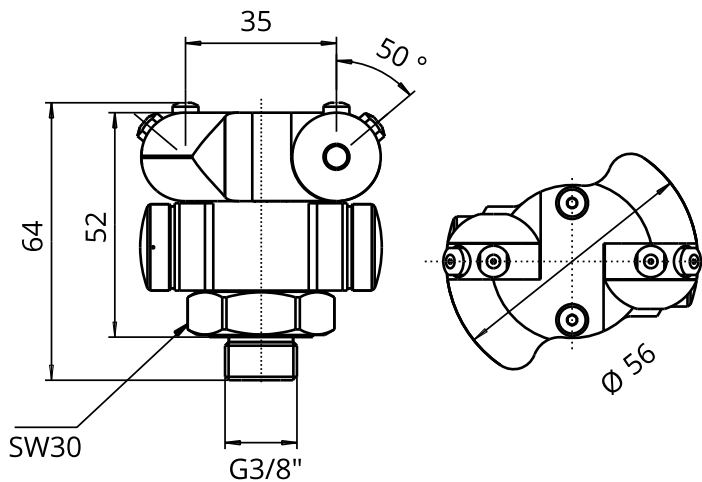


Additional nozzles in the center

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

CRN 54 Flex Nozzle - Datasheet

Dimensions



Variants/Order Info

CRN54-35	Base article code
Ex-CRN54-35	Variant for explosive areas Ex II 2G/D c II B T6
-2C-	With 2 centrum nozzles
-x.x-	Nozzle units (DE) with opening diameters x.x in mm (0.6, 0.8, 1.0, 1.2, 1.4, 1.6, 1.8, 2.0)
-Y	Nozzle Holder Y: S= Single (1DE), Z=Twin (2), D=Triplet (3)
-G	Connection thread optional mit G: ¼ = 0,25 Zoll

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	Single-holder:2 x 1=2, twin-holder:2 x 2=4, triplet-holder:2 x 3=6; all over angle of 195°	
Operating 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	G3/8" with SW30	
Rotational speed	750 1/min +/- 8%	
Sound pressure	75 db(A)	
Lifetime of bearings	>10 years	
Weight	250g	
Material	Nozzle body:	Aluminium
	Nozzle Unitse:	Stainless steel
	Axle:	galvanised brass
Environment	0 - 60°C and < 80% rH (no dew)	

Air Consumption

Air Consumption in l/min

mm	@5 bar		@8 bar	
	-S Hold	-Z Hold	-S Hold	-Z Hold
0.6	118	153	159	203
0.8	135	175	181	265
1.0	163	248	237	373
1.2	190	321	292	480
1.4	234	396	346	598
1.6	278	471	399	715
1.8	337	572	490	892
2.0	396	672	580	1068

(more values on request)

Spare Parts

000 001 013-d	Nozzle unit with opening d=diameter 0.6-2.0 mm
000 102 013	Seal ring nozzle bearing
900 001 001	deep groove ball bearing
900 001 002	Locking ring

Accessories

899 001 035	Nozzle unit mounting tool
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Scope of Delivery

- CRN54-35 rotary nozzle
- Nozzle units with diameter of your choice mounted in selected nozzle holders
- Sealing ring 3/8" compressed air connection
- Mounting Instructions