

Superior Clamping and Gripping



Product Information

Deburring tool CDB

CDB

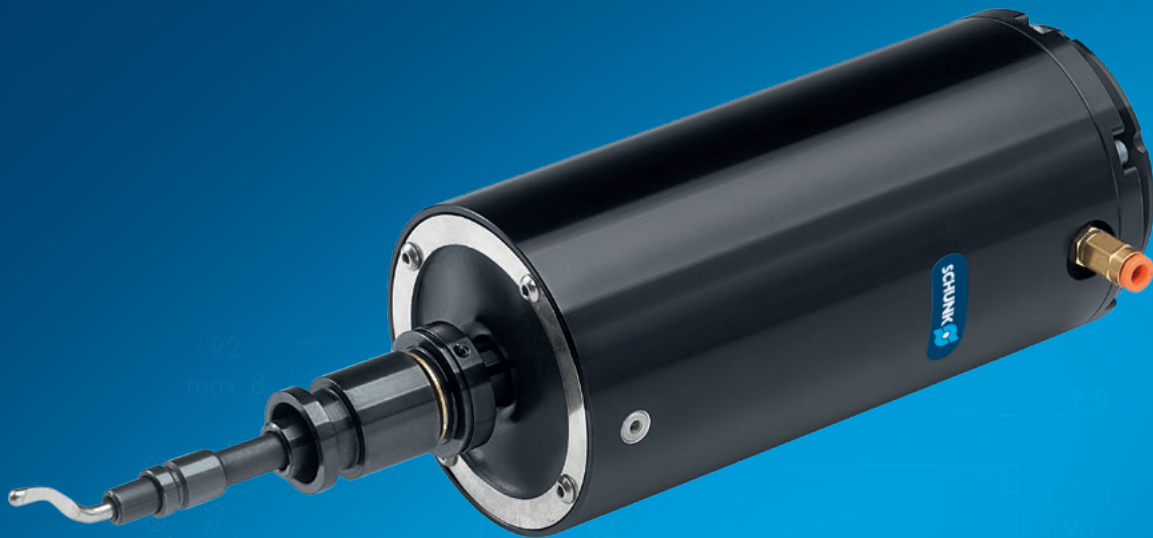
Deburring tool

Compliant. Flexible. Economical. Deburring tool CDB

Compliant tool for deburring with the robot and proven deburring tools

Field of application

For automatic deburring of different workpieces, geometries, and materials in a uniform quality



Advantages – Your benefits

Flexibility in axial and radial direction for a simplified robot programming

Use of proven deburring tools for simple automation of manual deburring processes

Optional tool change system for the automatic exchange of different deburring tools

Adjustable rigidity of the tool via compressed air for flexible use and ideal results with different materials

Lock function for the Y axis for an oscillating compensation only in the X-axis

Versatile use by using different deburring tools such as knives, scrapers and countersinks



Sizes
Quantity: 1



Max. radial
compensation force
76 N



Max. axial
compensation force
67 N



Compensation Z
8 mm

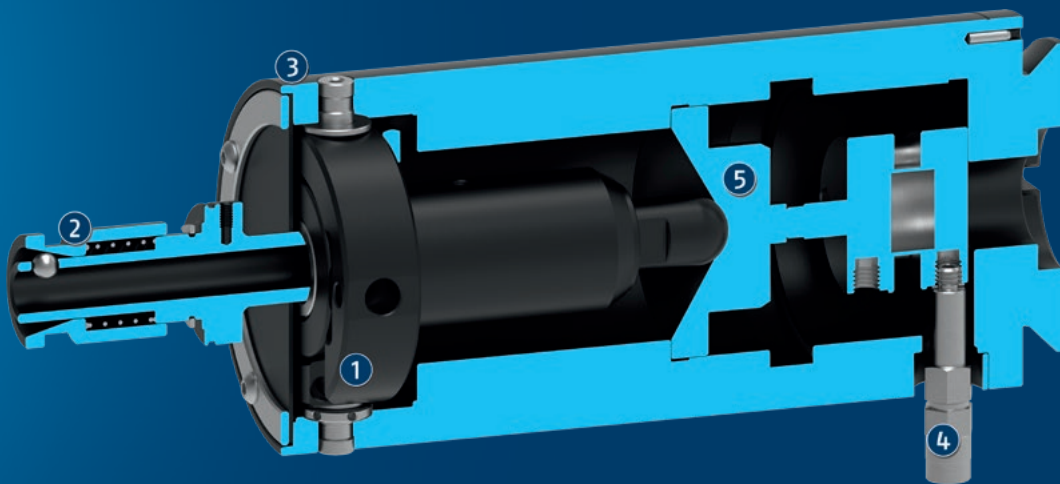


Compensation
angle, radial
 $\pm 5.5^\circ$

Functional description

The deburring tool has a radial compensation in direction of the X,Y-axis, as well as an axial compensation along the Z axis. Optionally, the compensation of the Y-axis can be fixed with a set screw, so that an oscillating compensation in the X-axis is possible. The compensation force can be

flexibly adjusted by means of compressed air. The quick-release fastener can be used for easily exchanging standard blade holders together with the deburring tools. When using the automatic tool change with a storage module, this can be done quickly and automatically.



- ① **Gimballed system**
for robust and flexible absorption of forces and moments
- ② **Tool mounting with quick-release fastener**
for simple and fast exchange of deburring tools

- ③ **Locking function for Y axis**
for an oscillating compensation in the X-axis
- ④ **Air connection**
for adjusting the contact pressure to the workpiece
- ⑤ **Reset mechanism**
for centering the unit

CDB

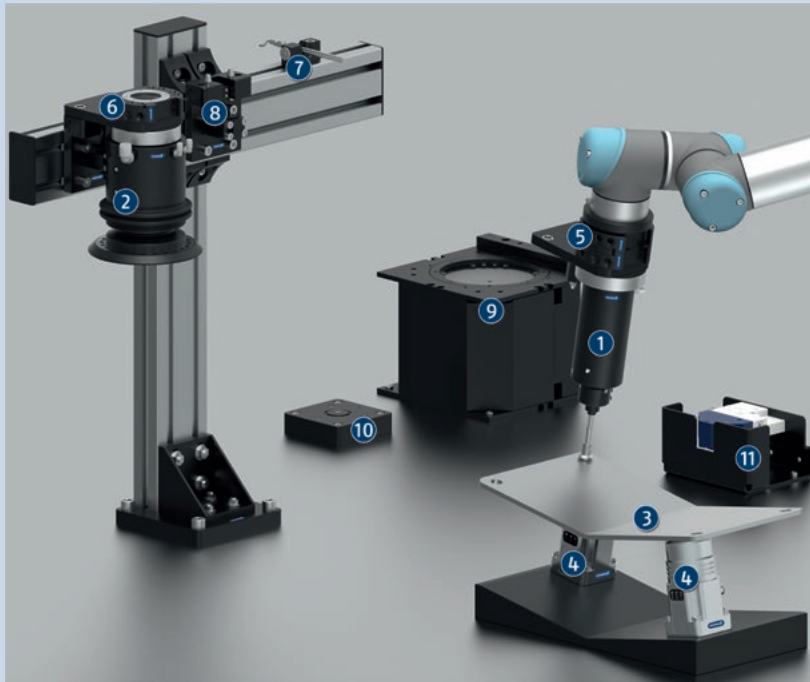
Deburring tool

General notes about the series

Mounting: on the robot arm or as a stationary unit

Warranty: 24 months

Ambient conditions: Please note that the unit is not suitable for use in an area where coolants or cutting fluids are present.



Application example

Robot-guided deburring metal sheets with automatic tool change system for different contours with one deburring blade and one counterbore.

- ① Deburring tool CDB
- ② Orbital Sander Tool A0V
- ③ Workpiece
- ④ Magnetic gripper EMH
- ⑤ Quick-change system SWS
- ⑥ Quick-change adapter SWA
- ⑦ Tool stand module CDB
- ⑧ Mounting module pin and bushing
- ⑨ Washer rack
- ⑩ Washer presence detector
- ⑪ Washer remover

SCHUNK offers more ...

The following components make the product CDB even more productive – the suitable addition for the highest functionality, flexibility, reliability, and controlled production.



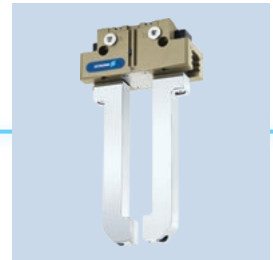
Quick change system



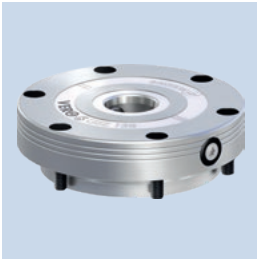
Manual change system



Force/torque sensor



2-finger parallel gripper



Quick-change Pallet System



Clamping force block



2-finger small components gripper



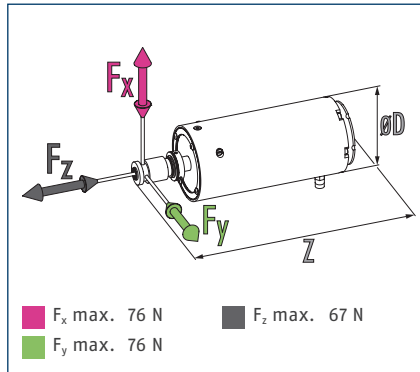
3-Finger Centric Gripper

① For more information on these products can be found on the following product pages or at schunk.com. Please contact us: SCHUNK technical hotline +49-7133-103-2696

CDB 008

Deburring tool

Dimensions and maximum loads

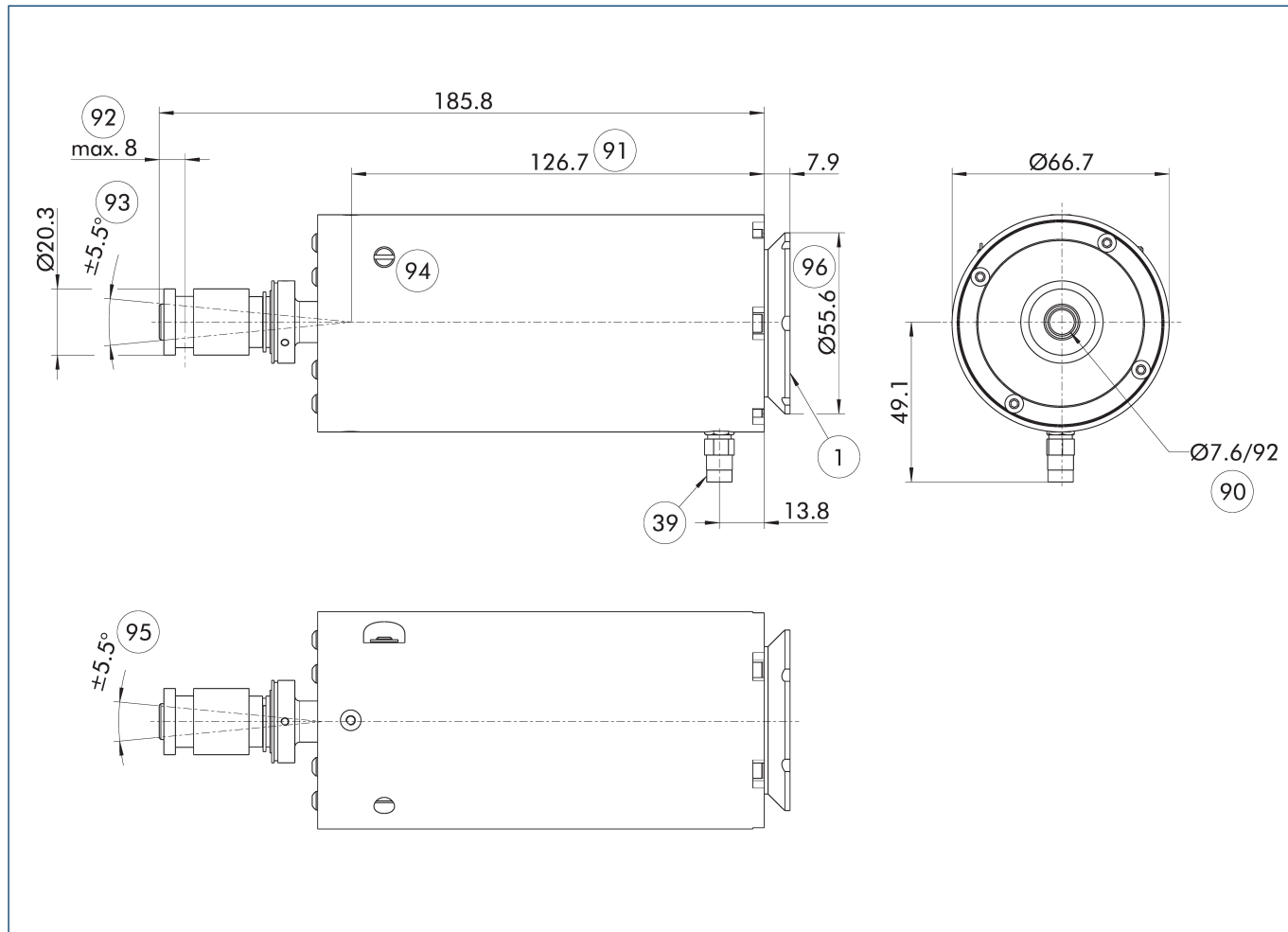


ⓘ The indicated forces show the maximum payload.

Technical data

Description		CDB-8-11-0	CDB-8-11-ATC
ID		1421055	1435108
Max. compensation angle X	[°]	±5.5	±5.5
Max. compensation angle Y	[°]	±5.5	±5.5
Compensation Z	[mm]	8	8
Weight	[kg]	1.04	1.09
Air connection hose		4 mm	4 mm
Tool holder		Blade holder for deburring tool types C, D, E, and F	Blade holder for deburring tool types C, D, E, and F
Tool change		manual	Automatic
Axis fixation		integrated	integrated
Min./max. radial compensation force	[N]	25/76	25/76
Min./max. axial compensation force	[N]	13/67	13/67
Min./max. compensation pressure	[bar]	0.7/4.1	0.7/4.1
Dimensions Ø D x Z	[mm]	66.7 x 193.7	66.7 x 193.7

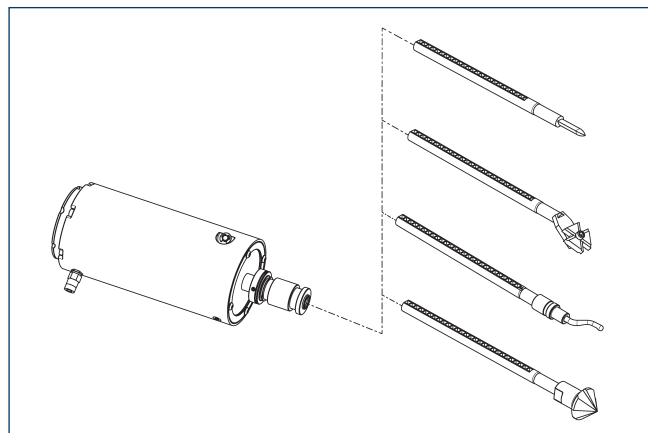
Main view



The main view shows the unit in its basic version.

- ① Robot-side connection
- ③ max. radial compensation (x axis)
- ③⑨ Compensation air connection
- ④ Locking function for Y axis
- ④⑨ Tool holder
- ④⑨ max. radial compensation (y axis, lockable)
- ④⑨ Pivot
- ④⑨ Max. axial compensation
- ④⑨ max. axial compensation
- ④⑨ axial mounting option

Blade holder for deburring tool types C, D, E, and F

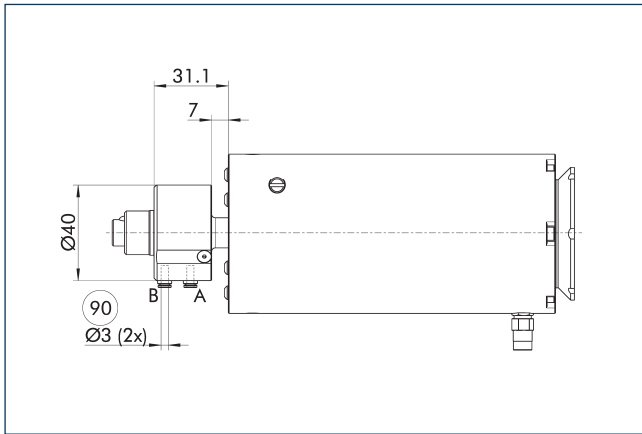


① Diese Darstellung illustriert lediglich mögliche Entgratwerkzeuge die mit dem Produkt CDB verwendet werden können. Die Klingenhalter sind nicht Teil des Lieferumfangs.

CDB 008

Deburring tool

Automatic tool changer ATC



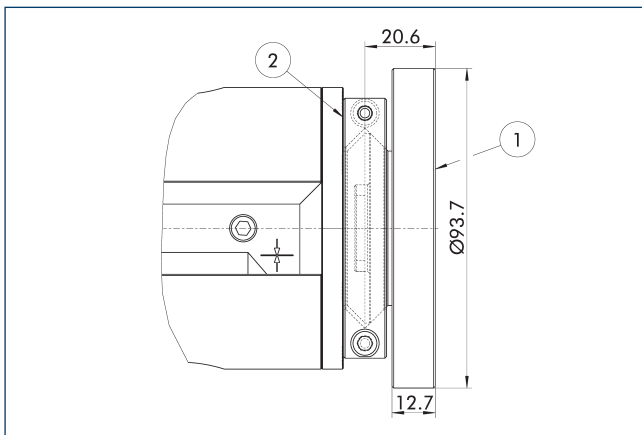
A, a Air connection locked

B, b Air connection unlocked

90 Hose diameter

Variant with automatic tool change. The dimensional differences to the basic version are shown.

Adapter plates axial

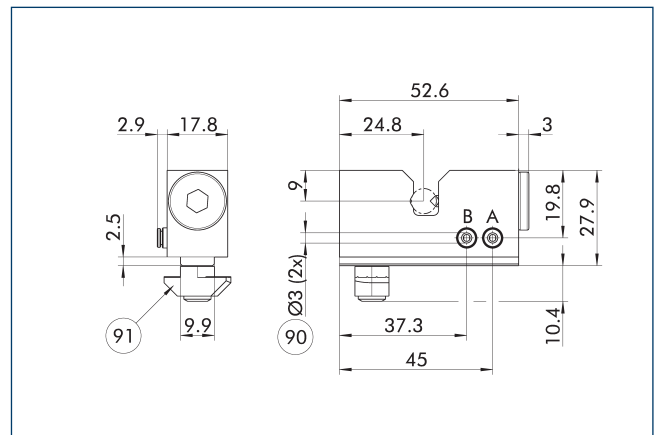


1 Robot-side connection

2 Tool-side connection

Description	ID	Height [mm]
Adapter plate		
A-CDB/FDB-1XX/3XX-Blank	0322210	20.6
A-CDB/FDB-1XX/3XX-ISO-A050	1411542	20.6
A-CDB/FDB-1XX/3XX-ISO-A31.5	1411562	20.6

Storage module for automatic tool change



A, a Air connection locked

B, b Air connection unlocked

90 Hose diameter

91 T-nut

Storage module for depositing deburring tools

Description	ID	
Storage module		
CDB-M-ATC-Holder	1435106	

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