

Superior Clamping and Gripping



## Product Information

Deburring tool CDB

# CDB

Deburring tool

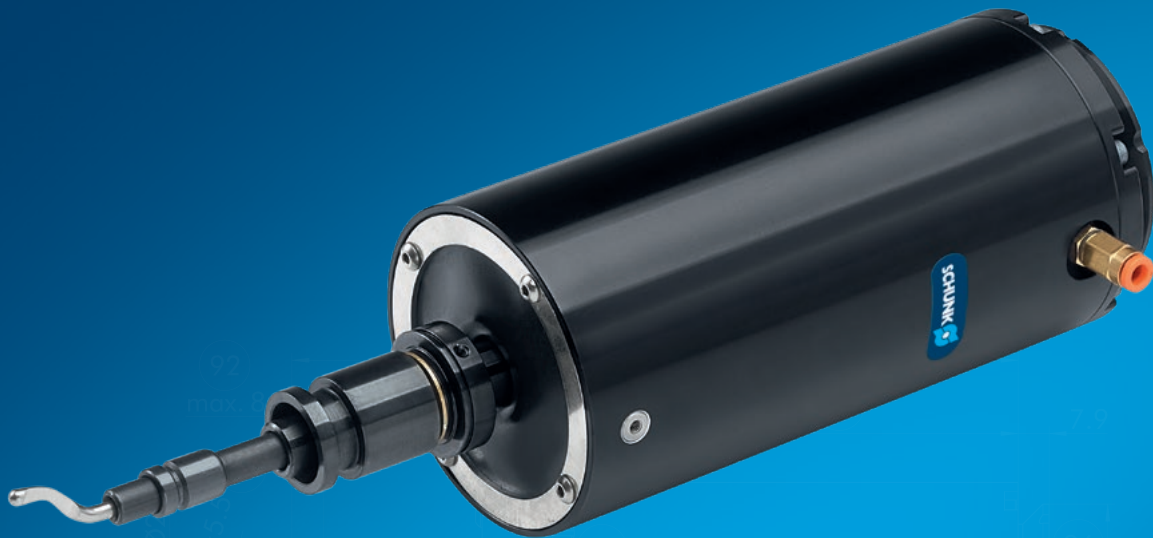
## Compliant. Flexible. Economical.

### 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

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

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

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

**Flexibility in axial and radial direction** for a simplified robot programming

**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

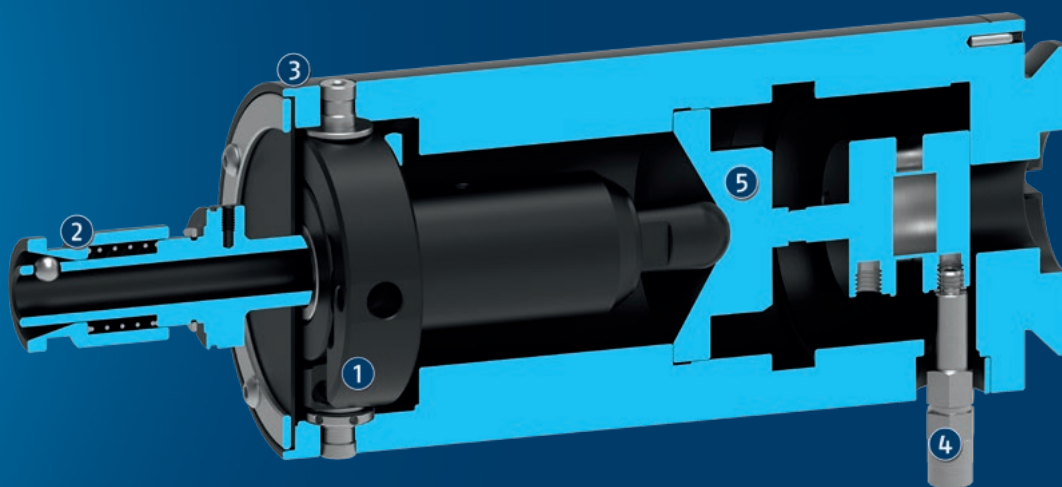


Compensation angle, radial  
 $\pm 5.5^\circ$

## 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

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

## SCHUNK offers more ...

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



Quick change system



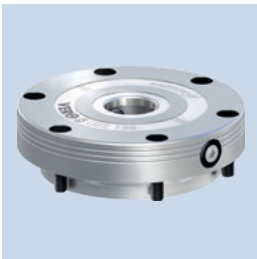
Manual change system



Force/torque sensor



2-finger parallel gripper



Quick-change Pallet System



Clamping force block



2-finger small components gripper



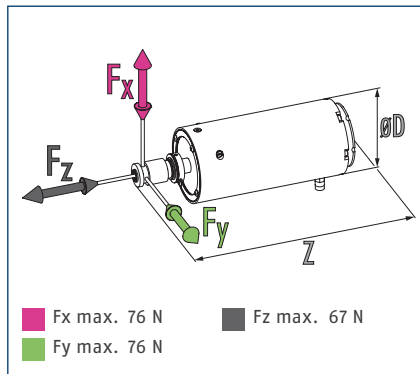
3-Finger Centric Gripper

① For more information on these products can be found on the following product pages or at [schunk.com](http://schunk.com).

# CDB 008

Deburring tool

## Dimensions and maximum loads

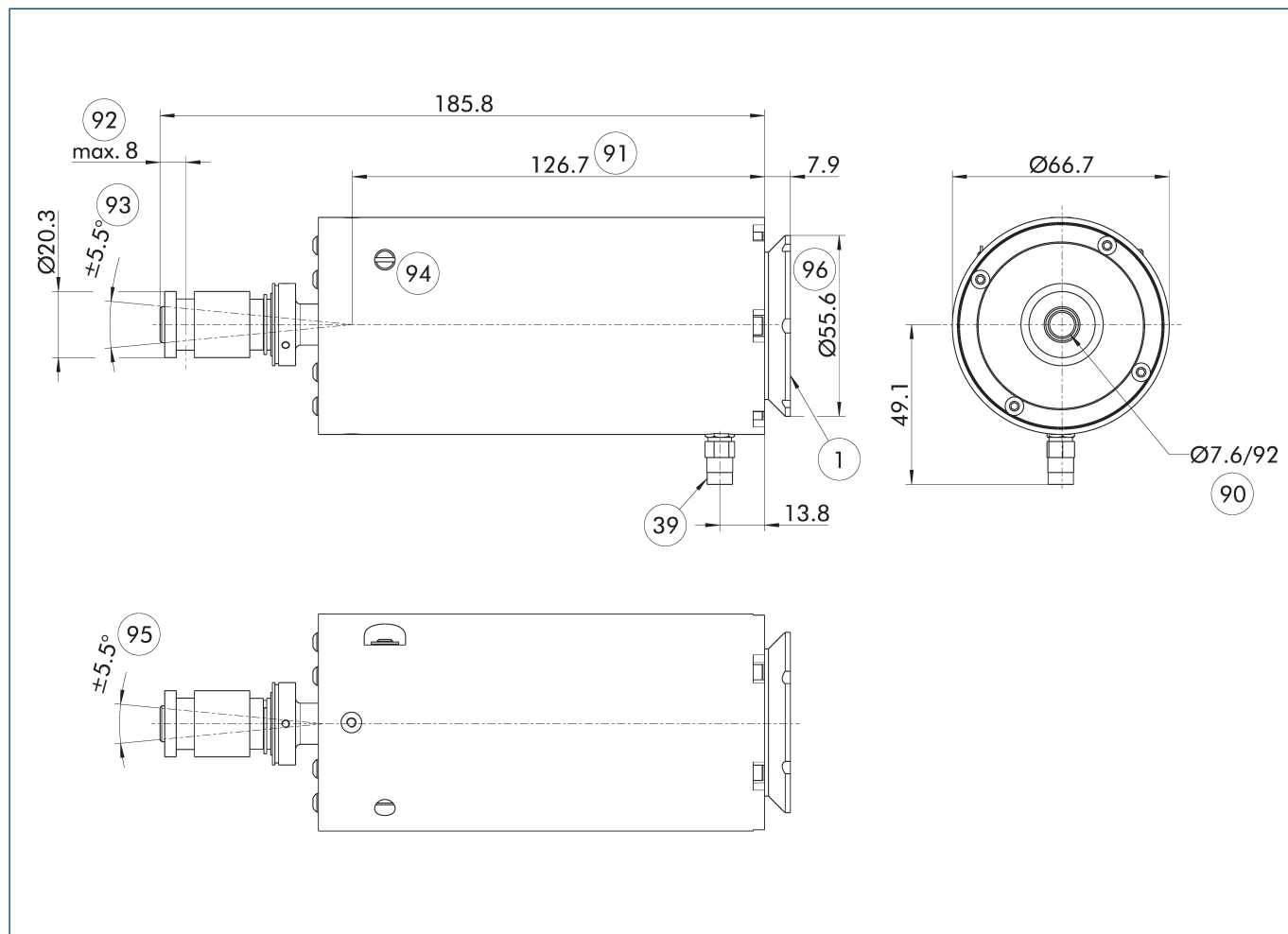


① The indicated forces show the maximum payload.

## 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 B, C, D, E and F	Blade holder for deburring tool types B, 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]	1/4.1	1/4.1
Dimensions Ø D x Z	[mm]	66.7 x 193.7	66.7 x 193.7

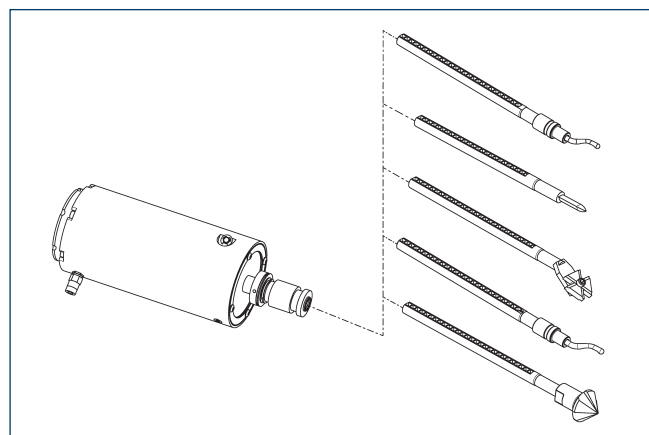
Main view



The main view shows the unit in its basic version.

- ① Robot-side connection
- ③9 Compensation air connection
- ③0 Tool holder
- ③1 Pivot
- ③2 Max. axial compensation
- ③3 max. radial compensation (x axis)
- ③4 Locking function for Y axis
- ③5 max. radial compensation (y axis, lockable)
- ③6 axial mounting option

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

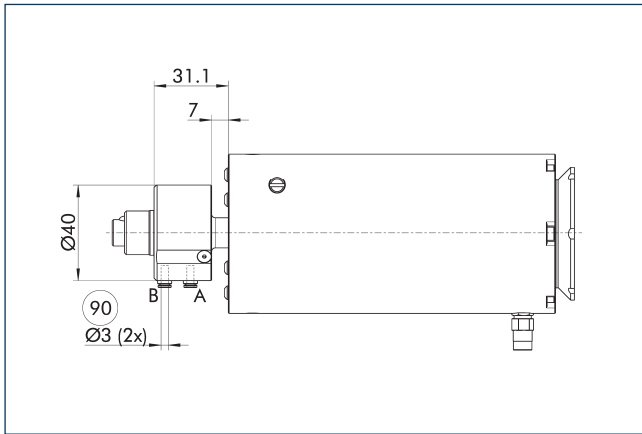


① This illustration only shows possible deburring tools that can be used with the CDB product. The blade holders are not part of the scope of delivery.

# CDB 008

Deburring tool

## Automatic tool changer ATC



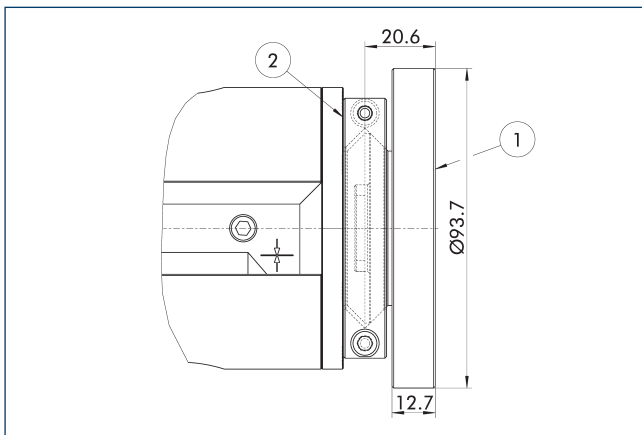
A, a Air connection locked

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

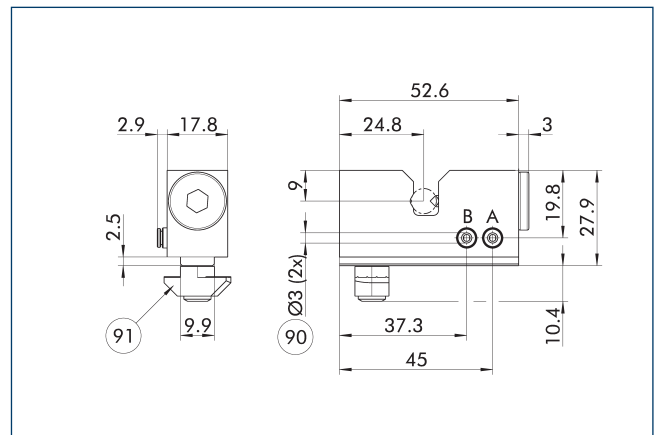


1 Robot-side connection

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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