



Superior Clamping and Gripping

# **Product Information**

Deburring tool CDB

# 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



0

Max. axial compensation force 67 N



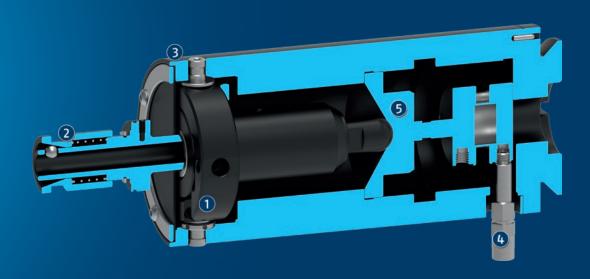
Compensation Z 8 mm



Compensation angle, radial ±5.5°

## **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 quickrelease 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.



- 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
- Air connection
  for adjusting the contact pressure to the workpiece
- 5 Reset mechanism for centering the unit

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## 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 notsuitable 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 AOV
- 3 Workpiece
- Magnetic gripper EMH
- **9** Quick-change system SWS
- **6** Quick-change adapter SWA
- Tool stand module CDB
- **8** Mounting module pin and bushing
- Ø Washer rack
- Washer presence detector
- 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.

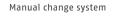






Quick change system







Quick-change Pallet System

Clamping force block



Force/torque sensor



2-finger small components gripper



2-finger parallel gripper

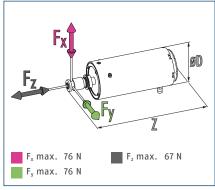


3-Finger Centric Gripper

Tor 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



### Dimensions and maximum loads



The indicated forces show the maximum payload.

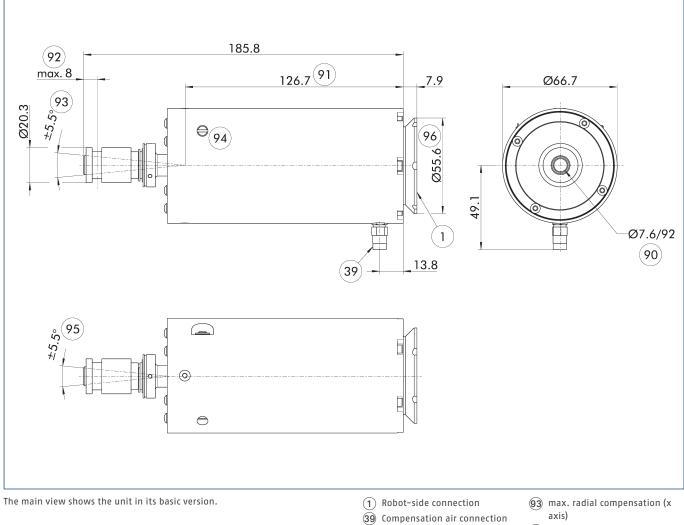
## **Technical data**

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

# **CDB 008**

Deburring tool

### Main view



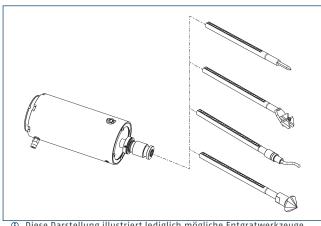
90 Tool holder

(92) Max. axial compensation

91) Pivot

- 94 Locking function for Y axis
- 95 max. radial compensation (y axis, lockable)
- (96) axial mounting option

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

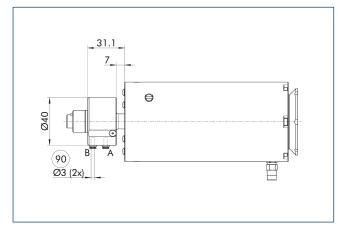


① Diese Darstellung illustriert lediglich mögliche Entgratwerkzeuge die mit dem Produkt CDB verwendet werden können. Die Klingenhalter sind nicht Teil des Lieferumfangs.

## **CDB 008**

Deburring tool

### Automatic tool changer ATC

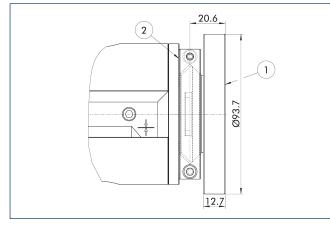


A, a Air connection locked

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

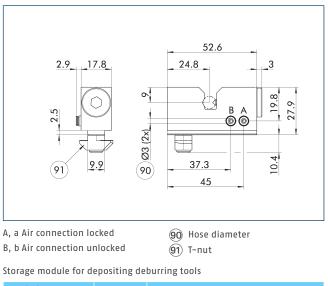


(1) Robot-side connection

 $(\mathbf{2})$  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



0		0	0	
Description	ID			
e				

Storage module					
CDB-M-ATC-Holder	1435106				

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Jens Lehmann, German goalkeeper legend, SCHUNK brand ambassador since 2012 for safe, precise gripping and holding.

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