

Alignment device for machining centre



AVO



AVO 2.0



SETT setup tool



The product is patented

Tool-changing systems

Modules of automation

M1195DE/1909 © MIKSCH GmbH

Technical information

MIKSCH
accelerates

MIKSCH alignment device

The MIKSCH alignment device is used for the axial and concentric alignment (position adjustment) of two interacting machine components such as:

Areas of application and und possibilities

- Alignment of tool changers toward the chain or disc magazine
- Alignment of the chain or disc magazine to the tool spindle
- Alignment of the transfer unit or swivel unit toward the chain or disc magazine

MIKSCH AVO + AVO 2.0 alignment device

Alignment takes place via “Sensing Traversing”.

You will receive OK or NOK results.

The following can be determined with the MIKSCH AVO alignment device:

- the axial distance of the contact surfaces
- eccentricity to the spindle and the magazine

The following can be determined in addition with the MIKSCH AVO 2.0 alignment device:

- the angle position (position of the groove in the spindle to the position of the groove in the gripper groove)

Assembly

The MIKSCH AVO alignment device consists of a spindle cone [2], a gripper disc [4] and a locking bolt [5]. The MIKSCH AVO 2.0 alignment device has also a locking bolt [6] for determining angular position.

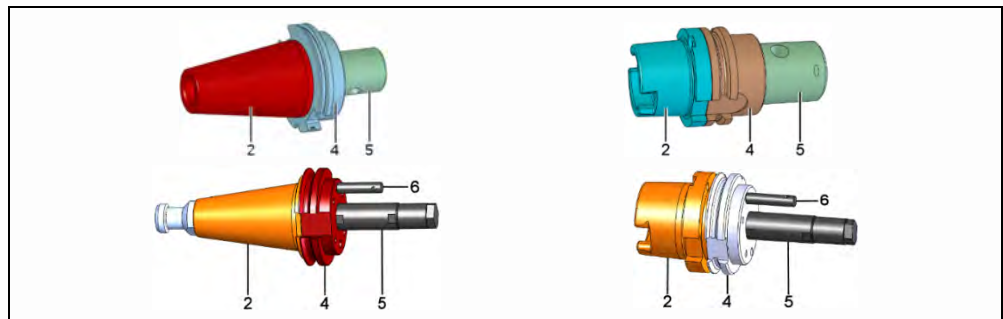


Fig 1: MIKSCH AVO + AVO 2.0 alignment device (schematic representation)



Information! The MIKSCH AVO alignment device in application

The listed QR code will take you directly to animation.
Alternatively also via the following link:

<https://www.miksch.de/de/zubehoer/avo-absteckvorrichtung.html>



MIKSCH SETT setup tool

Alignment takes place via “**Measuring Traversing**”.
You will receive exact measuring results.

The following can be done with the MIKSCH SETT setup tool:

- measure the axial distance of the contact surfaces
- measure the eccentricity to the tool spindle and the tool magazines
These values can be directly adopted by the control
- determine the direction and path of correction
- set different offset tolerances

Assembly

The MIKSCH SETT setup tool consists of a measuring unit [1] and a spindle cone [2].

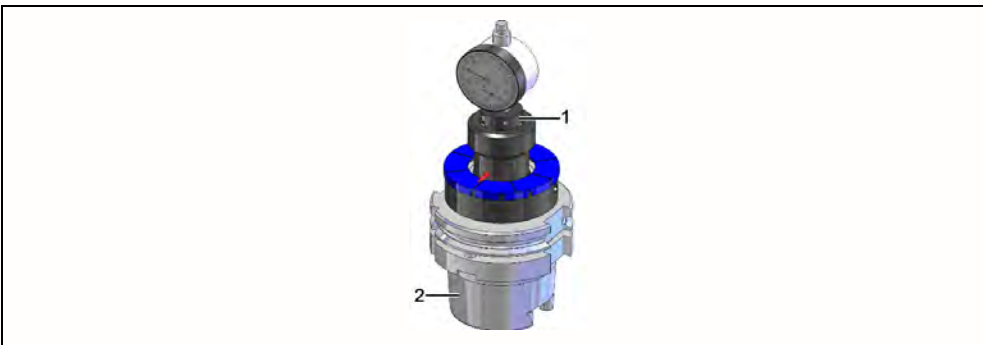


Fig 2: MIKSCH SETT setup tool (schematic representation)



Information! The MIKSCH SETT setup tool in application

The listed QR code will take you directly to animation.
Alternatively also via the following link:

<https://www.miksch.de/de/zubehoer/sett-setup-tool.html>



Dimensions according to standard

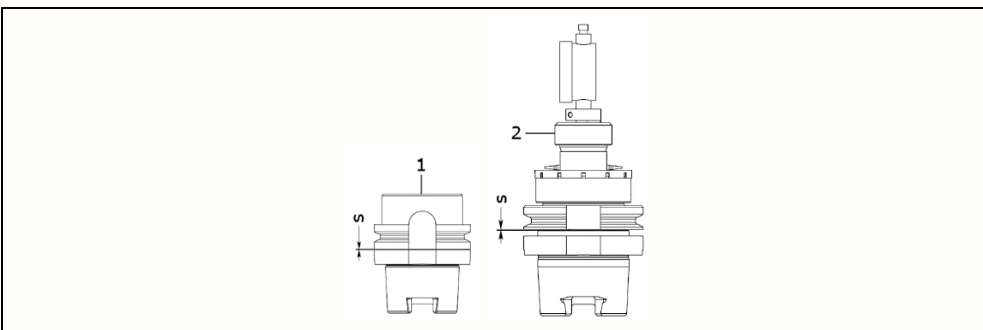


Fig 3: Nominal gap width

[1] MIKSCH AVO + AVO 2.0 alignment device

[2] MIKSCH SETT setup tool

The **nominal gap width [s]** is 0,5 mm for all tool supports.

Available tool supports

Tool supports	MIKSCH AVO alignment device	MIKSCH AVO 2.0 alignment device	MIKSCH SETT setup tool
	Order number	Order number	Order number
HSK-A/T/E 25	21600292-MK	*	*
HSK-A/T/E 32	21600293-MK	*	*
HSK-A/T/E 40	20706346-MK	21501097-MK	21400363-MK
HSK-A/T/E 50	*	21501114-MK	21400391-MK
HSK-B/F 50	*	21501116-MK	21400417-MK
HSK-A/T/E 63	20706348-MK	21401177-MK	21301519-MK
HSK-B/F 63	*	21401417-MK	21400418-MK
HSK-A/E/T 80	20706755-MK	*	*
HSK-B/F 80	21501604-MK	*	21700604-MK
HSK-A/T/E 100	20706352-MK	21501115-MK	21400036-MK
HSK-A/T/E 125	20706912-MK	*	*
HSK-B/F 200	20706756-MK	*	*
SK-A/AD/B 30	21200428-MK	21501122-MK	21301831-MK
SK-A/AD/B 40	20706353-MK	21501123-MK	21301517-MK
SK-A/AD/B 50	20706355-MK	21501124-MK	21301696-MK
BT 30	21201375-MK	21501090-MK	21400412-MK
BT 40	*	21501091-MK	21301518-MK
BT 50	*	21501092-MK	21301697-MK
PSC 40	*	21501117-MK	21400395-MK
PSC 50	*	21501118-MK	21400399-MK
PSC 63	20706754-MK	21501119-MK	21301521-MK
PSC 80	20706354-MK	21501120-MK	21400403-MK
PSC 80 X	*	21501121-MK	21400406-MK
CAT 40	*	21501093-MK	21301520-MK
CAT 50	*	21501094-MK	21400407-MK
Tool supports	MIKSCH AVO 2.0 alignment device + MIKSCH SETT setup tool		
	Order number		
HSK-A/T/E 40	21500422-MK		
HSK-A/T/E 50	21500471-MK		
HSK-A/T/E 63	21500473-MK		
HSK-A/T/E 100	21500474-MK		
HSK-B/F 50	21500476-MK		
HSK-B/F 63	21500483-MK		
SK-A/AD/B 30	21500489-MK		
SK-A/AD/B 40	21500490-MK		
SK-A/AD/B 50	21500491-MK		
BT 30	21500410-MK		
BT 40	21500413-MK		
BT 50	21500415-MK		
PSC 40	21500484-MK		
PSC 50	21500485-MK		
PSC 63	21500486-MK		
PSC 80	21500487-MK		
PSC 80 X	21500488-MK		
CAT 40	21500417-MK		
CAT 50	21500419-MK		

*: on request

Further tool supports on request
– subject to changes –

Miksch GmbH • Reutlinger Str. 5 • 73037 Göppingen • Germany
Tel. +49 (0)7161/6724-0 • Fax +49 (0)7161/6724-99
E-Mail: miksch@miksch.de • www.miksch.de

