

Quick guide

vario quick

EN

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1 General

1.1 Information about this manual

This manual enables you to work safely and efficiently with the product.

This manual is part of the product and must be kept in a location directly beside the product that is accessible to the personnel at all times. The personnel must have read this manual carefully and understood its contents before starting any work. The basic requirement for safe work is compliance with all stipulated safety notices and work-related instructions in this manual.

If the product is passed onto a third party, this manual must accompany it.

Illustrations in this manual are there to facilitate a basic understanding, and may differ from the actual design configuration of the product.



WARNING

Serious injuries caused by individual products or by inappropriate combinations of them!

- Read and pay attention to all operating instructions for individual products and combinations of them.

1.2 Key to symbols

Safety instructions in this manual are designated by symbols. The safety notices are invoked by signal words that express the level of hazard involved.

Always comply with safety notices and exercise caution to avoid accidents, injury to people and damage to materials.

Safety notices



DANGER

... indicates an immediate and hazardous situation that can lead to death or serious injury if not avoided.



WARNING

... indicates a potentially hazardous situation that can lead to death or serious injury if not avoided.

Tips and recommendations



INFORMATION

... highlights useful tips and recommendations as well as information for efficient and problem-free operation.



... refers to other documents relating to personal and general safety.

1.3 Limitation of liability

The manufacturer accepts no liability for damage arising from any of the following:

- Non-compliance with this manual
- Unintended use
- Use of untrained personnel
- Autonomous conversion work
- Technical modifications
- Use of non-approved spare parts
- Use of non-approved accessories

Subject to any commitments agreed to in the supplier contract, the General Terms & Conditions of Business and the delivery terms of the manufacturer and all legislative stipulations valid at the time of conclusion of this contract.

1.4 Warranty terms

The warranty terms are included in the manufacturer's General Terms & Conditions of Business.

2 Safety

2.1 Responsibility of the operator

The product is used in the commercial and industrial sector. The operator of the product is therefore governed by the provisions of Health & Safety at Work legislation.

As well as the safety notices in this manual, the area of use of the product must also comply with locally applicable safety, accident prevention and environmental protection specifications as well as those in the manual for the machine tool.

No modifications must be made to the product. The operator is wholly and solely responsible for any resultant personal injury and/or damage to materials.

2.2 Intended use

The product is only intended for installation in a CE-compliant machine tool with a separating set of guards.

This product is intended for installation in a compatible product with corresponding attachment geometry.

The product is only intended for the type of use described in this manual [see »Use« chapter]. Furthermore, an extended form of use can be agreed contractually between manufacturer and operator.

2.3 Particular hazards

The following section names residual risks resulting from the installation of the product in a machine tool. In all cases, the residual risks detected during a risk assessment of the machine tool need to be named by the operator.

Pay attention to the safety instructions named here, as well as the warning notices in other chapters of these operating instructions to reduce the risk of health hazards and to prevent dangerous situations.

Sharp-edged parts



WARNING

Serious cut injuries caused by sharp-edged parts and burrs!

- All installation of individual parts must be performed by skilled staff from the relevant specialist field.
- Also wear the following items of personal protective equipment, in addition to the basic equipment:



2.4 Other safety instructions



WARNING

Serious head injuries caused by bending into the working area of the machine!

- Only ever bend into the working area of the machine if there are no cutting tools or sharp objects in it, or if these are covered.
- Never move body parts under parts in the working area of the machine with the potential to drop down.



WARNING

Serious injuries caused by the use of damaged products or by their components and accessories!

- Check products or their components and accessories on a regular basis for visible signs of damage [see »Inspections« and »Cleaning« chapters].
- Use of damaged products, their damaged components and/or their damaged accessories is prohibited.
- Report damage to the operator immediately.
- Damaged components / accessories must be replaced with genuine spare parts / accessories made by the manufacturer.



WARNING

Serious injuries caused by the release of stored energy!

- Never remove the product.

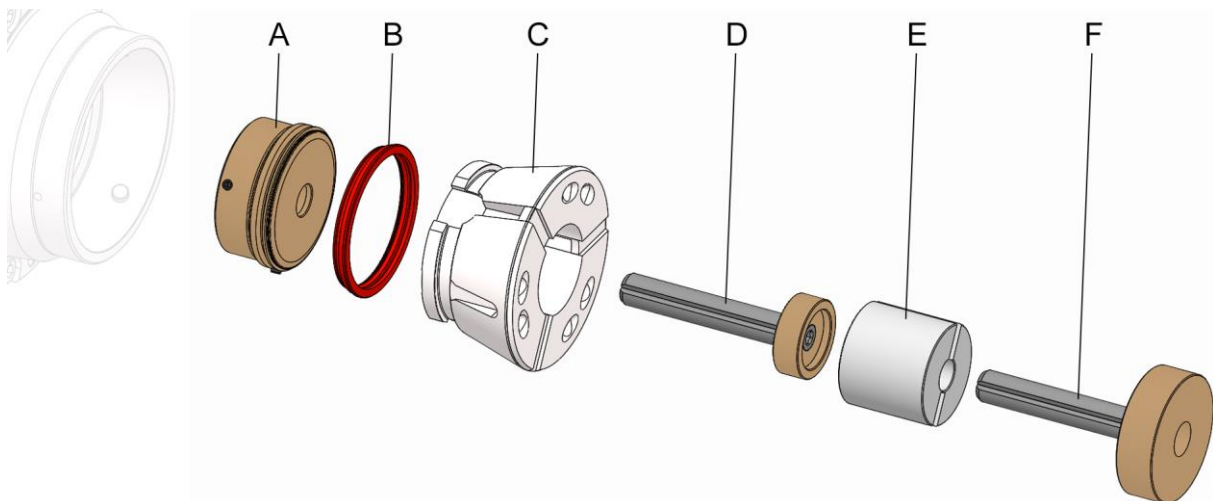
3 Use

The product can only be used in conjunction with a suitable product from HAINBUCH.

As well as for its general field of application, this product was designed and developed for use, when necessary, in a specific and documented application [see clamping situation drawing or order confirmation].

Any other fields of application require the explicit approval of the manufacturer.

4 Exploded view



- A Base end-stop disc
- B Swarf baffle ring [optional]
- C Clamping element
- D Stop screw
- E Clamping sleeve
- F Blank screw



In addition to these operating instructions, also read and follow the operating instructions for the relevant clamping device.

5 Installation

5.1 Preparation of the machine for installation

1. Set the machine into set-up mode.
2. Reduce the operating pressure to a minimum.
3. Remove cutting tools and/or sharp objects from the working area of the machine, or cover them.

5.2 Installation of the product

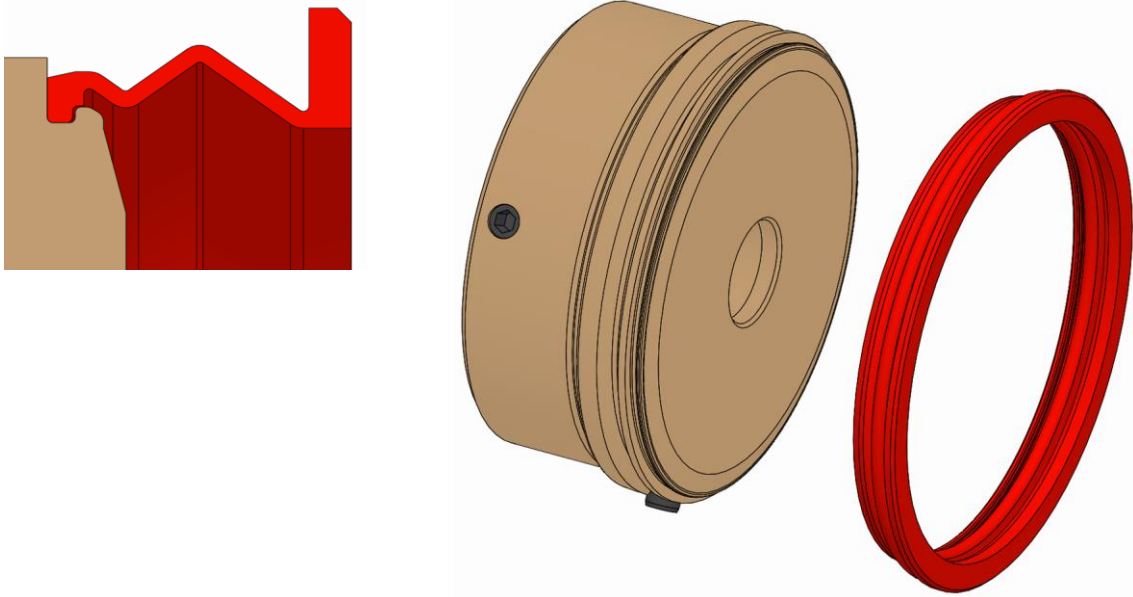
Special aids needed:

- Mounting aid

1. As described in the »Preparation of the machine for installation« chapter, prepare for the following steps.

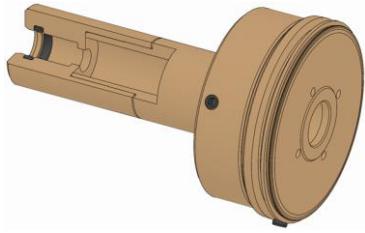
5.2.1 Preparation of the product

The following preparatory steps are needed to install the product if the swarf baffle ring is going to be used.



1. Place the swarf baffle ring on the base end-stop disc. To do this, stretch the swarf baffle ring until it engages in the groove of the base end-stop disc.

5.2.2 Installation of the product on the clamping device

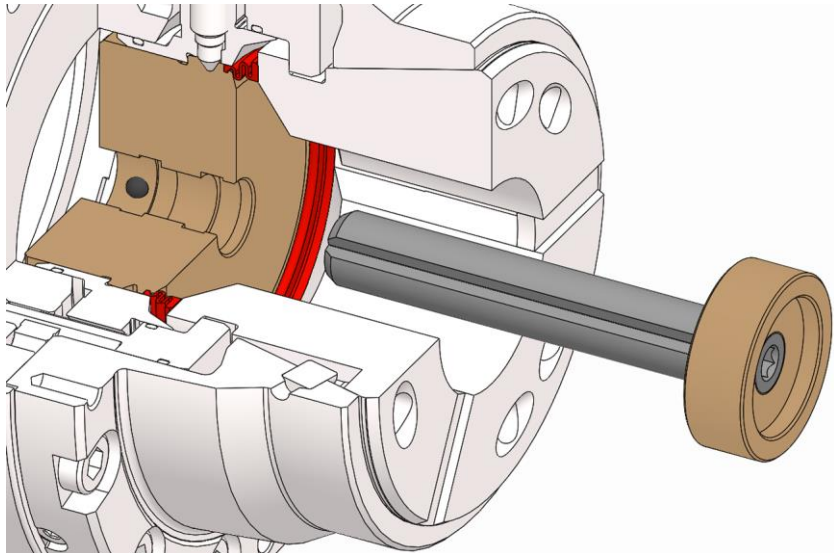


INFORMATION

When using a base end-stop disc with rinsing connection, the following must be observed:

- The media supply on the machine must be adapted to suit the length of the base end-stop disc.
- The external diameter of the media supply unit must be $12 \pm 0.1 \text{ mm}$.

1. Attach the base end-stop disc [see operating instructions of the clamping device]. If necessary, use the mounting aid.
2. Attach the clamping element [see operating instructions of the clamping device].



INFORMATION

In order to be able to use the product, it must be ensured that the stop screw does not collide with the clamping device and / or the machine during adjustment.

3. Screw the stop screw into the base end-stop disc until the stop height is reached [see chapter »Setting the stop height«].

5.3 Setting the stop height



INFORMATION

The stop height can only be adjusted in steps of 1 mm. Adjustment outside these specified steps is not permitted.

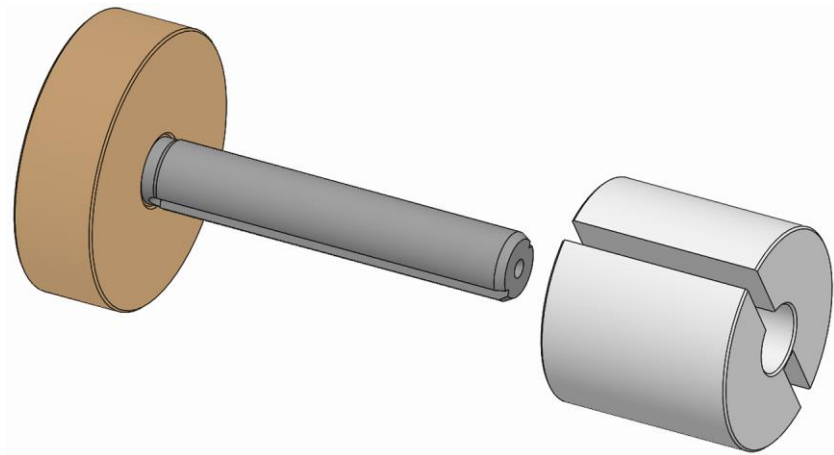
An adjustment of 1 mm corresponds to a half turn of the stop screw. A half turn is indicated by the stop screw engaging in the base end-stop disc.

1. Turn the stop screw to adjust the stop height. Observe the minimum required clamping depth of the clamping device [see operating instructions of the clamping device].

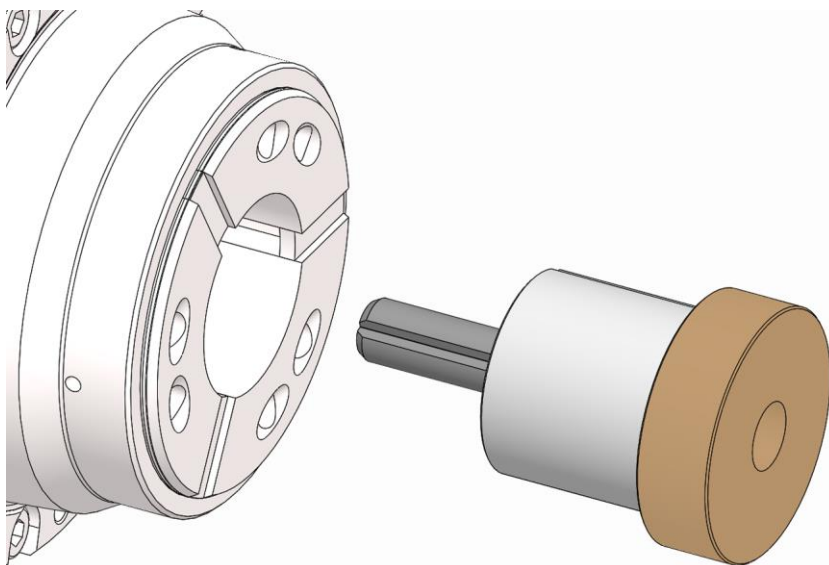
5.4 Machining a blank screw

To be able to machine the blank screw, the clamping device must already be mounted on the machine.

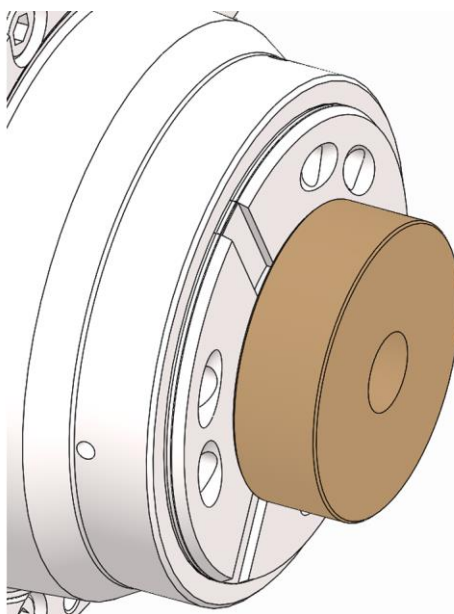
1. Remove the clamping element of the clamping device [see operating instructions of the clamping device].
2. Remove the changing parts of the clamping device [see operating instructions of the clamping device].
3. Mount the clamping element suitable for the clamping sleeve [see operating instructions of the clamping device].



4. Place the clamping sleeve on the blank screw.



5. Insert the blank screw together with the clamping sleeve into the clamping device.



WARNING

Crushing injuries of the hands / fingers when improperly inserting the blank screw!

- Do not place hands / fingers between blank screw and clamping element.
- Never reach into the clamping area.

6. Clamp the blank screw together with the clamping sleeve.



DANGER

Severe injuries due to ejected parts in case of incorrect machining of the blank screw!

- Machining of the blank screw must only be carried out in such a way that the threaded connection is further tightened. The stop disc is attached to the threaded screw with a left-hand thread.



INFORMATION

Guide values for turning the blank screw are:

- Feed $f = 0.2mm$
- Cutting depth $a_p = 1mm$
- Cutting speed $v_c = 220 \frac{m}{min}$

7. Machine the blank screw to the desired dimension.

6 Removal

6.1 Preparing the machine for removal

1. Set the machine into set-up mode.
2. Reduce the operating pressure to a minimum.
3. Remove cutting tools and/or sharp objects from the working area of the machine, or cover them.
4. Remove operating and auxiliary materials as well as remaining processing materials and dispose of them in an environmentally responsible manner.

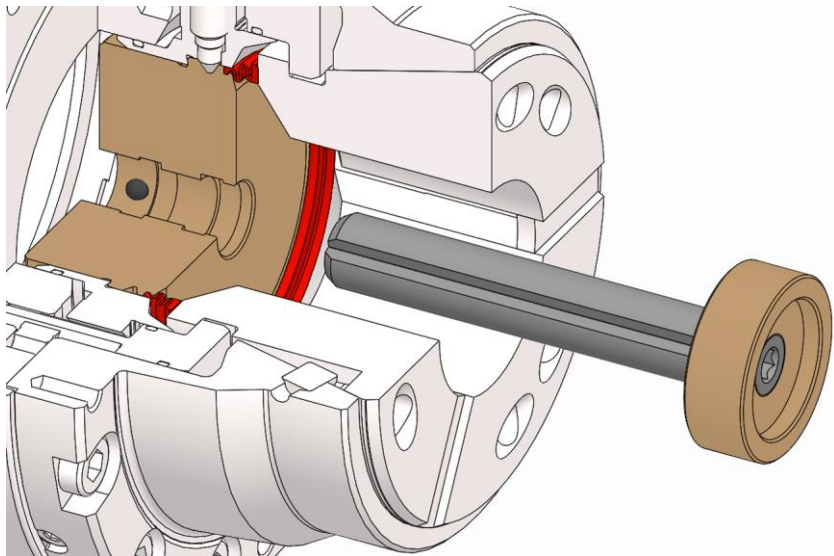
6.2 Removal of the product

Special aids needed:

■ Mounting aid

1. As described in the »Preparing the machine for removal« chapter, prepare for the following steps.

6.2.1 Removal of the product from the clamping device



1. Remove the stop screw from the base end-stop disc.
2. Remove the clamping element [see operating instructions of the clamping device].
3. Dismount the base end-stop disc [see operating instructions of the clamping device]. If necessary, use the mounting aid.

7 Faults

7.1 Fault table

Fault	Possible cause	Remedial action	Remedied by
Stop dimension changes	Clamping is insufficient	Replace the springs	HAINBUCH

Table 1: Fault table



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