Description G

Web guider KF 2020

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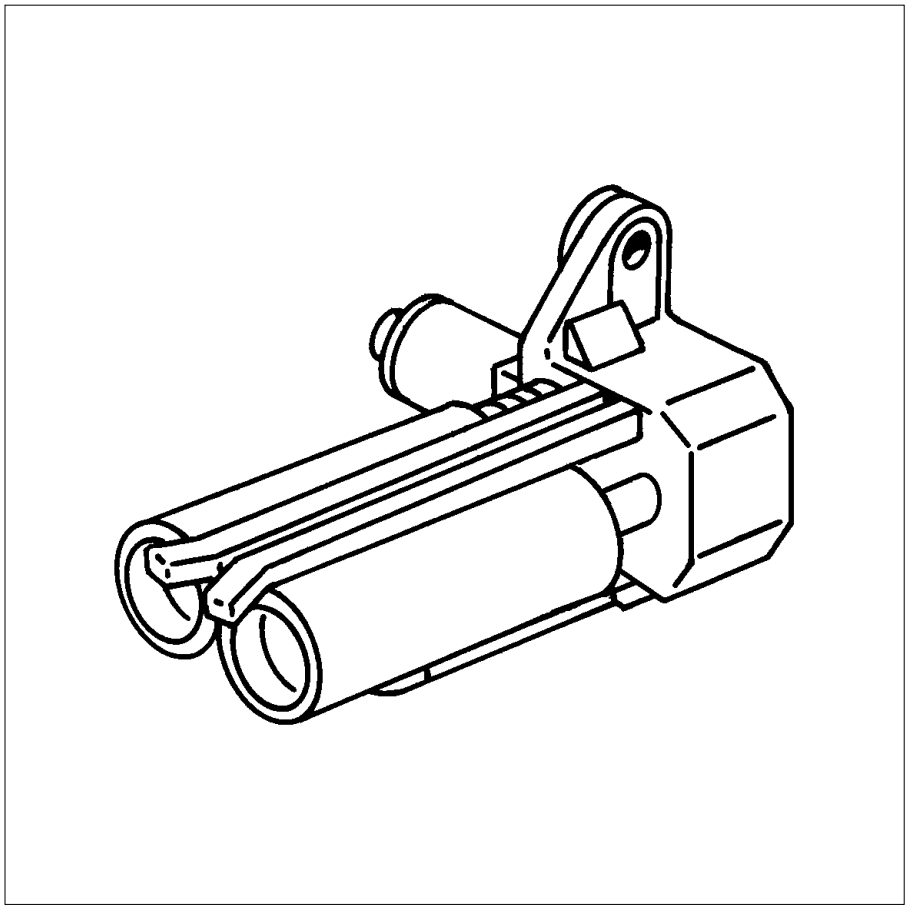


Explanation of symbols

➜ = jobs to be performedsteht für ausführende Tätigkeiten

= important information and instructions

! = sections of the text due particular attention to assure the safe operation of the web guider.

1. Safety

1.1 Intended usage

The web guider must only be used to correct the position of fabric webs.

The web guider is built to state-of-the-art technology.

Nevertheless during usage
- the operator may risk injury and
- damage to other property occur.

The web guider should only be used when
- in perfect working order,
- safety guards are mounted according to regulation,
- for use as intended,
- with regard to safety and dangers, in observance of the description.

Any work regarding the operation, production adaptation, conversion or setting of the web guider and its safety devices, inspection, maintenance and repairs should be performed by qualified personnel only.

1.2 Description

Keep this description in a safe place, accessible to personnel at all times.

The description is part of the package supplied and should be read carefully prior to assembly, operation and maintenance.

1.3 Safety instructions

Never touch the edges of moving webs.

Never reach inbetween moving rollers.

2. Type overview

The covering on the fixed roller is made of Perbunan (rubber) and the guide roller of resin bonded fabric. Both rollers are available in lengths of 280 mm and 400 mm. Melamine and Niro (rustproof steel) versions are available for special applications. Any combination of roller type is possible, they must however be the same length.

3. Function

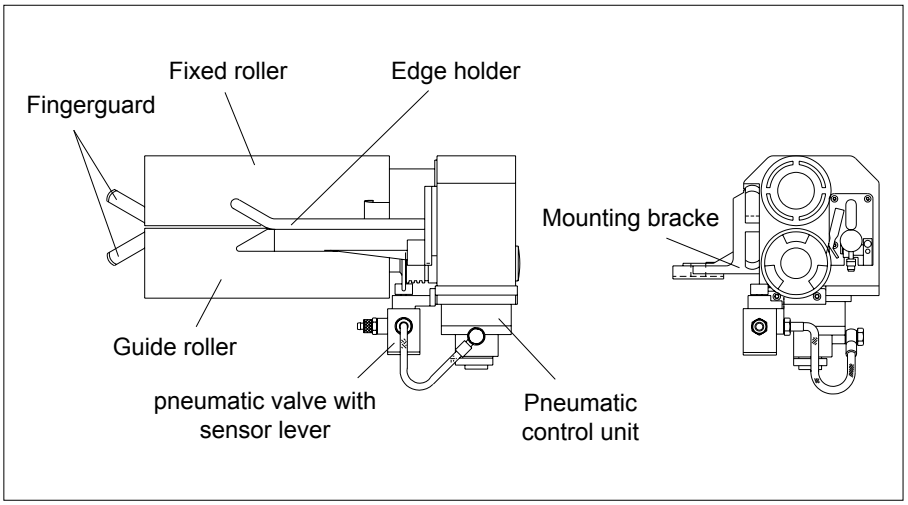
3.1 Purpose

The web guider keeps the web edge straight and guides it crease-free to the set position.

3.2 Design

Web guiders are always used in pairs. A web guider consists of the following units:

- a fixed roller
- a guide roller
- a pneumatic valve with sensor lever
- a mounting bracket
- a finger guard
- a pneumatic control unit
- an edge holder



3.3 Operating principle

The web edge is mechanically detected by the sensor lever. If the web edge moves away from the set position, the sensor lever actuates the air valve and the guide roller presses on the locking roller. Due to the diagonal arrangement of the rollers, the web is drawn to the outside until it is returned to the set position. The valve cuts off the compressed air, the guide roller opens and the web is released again.

4. Assembly

! Please observe the locally applicable and professional safety and accident prevention regulations.

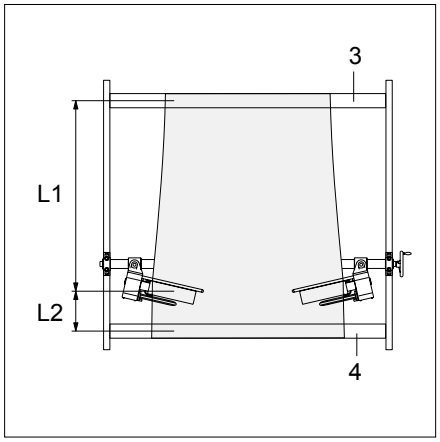
4.1 Transportation and unpacking

➜ Check the web guider for any damage.

➜ Dispose of packaging material in the proper manner.

➜ Remove the transport protector (foam) on the sensor lever.

4.2 Application instructions



Avoid longitudinal tensioning or stretching in the pre-entry and exit areas.

Pre-entry path (L 1)
For optimum web correction the pre-entry path should be approx. 1-1.5 x the web width.

Exit path (L 2)
For optimum web correction the exit path should be as short as possible (0.3 - 0.5 m).

Infeed roller (3)
The wrapping angle on the infeed roller should be approx. 90°. A rod may also be used for dry webs.

Locking roller (4)
The wrapping angle on the locking roller should be approx. 90°. To assure that the width correction initiated is retained, the locking roller should have a diameter of at least 100 mm and a good gripping surface.

4.3 Assembly instructions

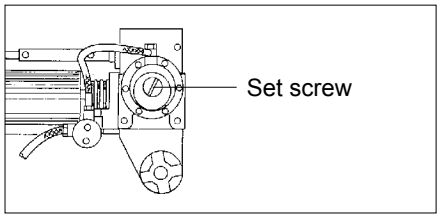
Mount the web guider according to the application instructions.

➜ The inclination angle should be approx. 13°, it is already incorporated in the design of the mounting bracket.

➜ Run the pneumatic lines so that they cannot be bent regardless of the system positioning.

5. Commissioning

5.1 Setting the guide roller



The guide roller, mounted on self-aligning bearings is works set to 3 mm and is adequate for web thicknesses up to approx. 2 mm. If a thicker web is being guided, set the gap as follows:

➜ Turn the setscrew until the correct gap is achieved (turn to left = increase gap, turn to right = decrease gap), max. approx. 7 mm.

5.2 Operating pressure

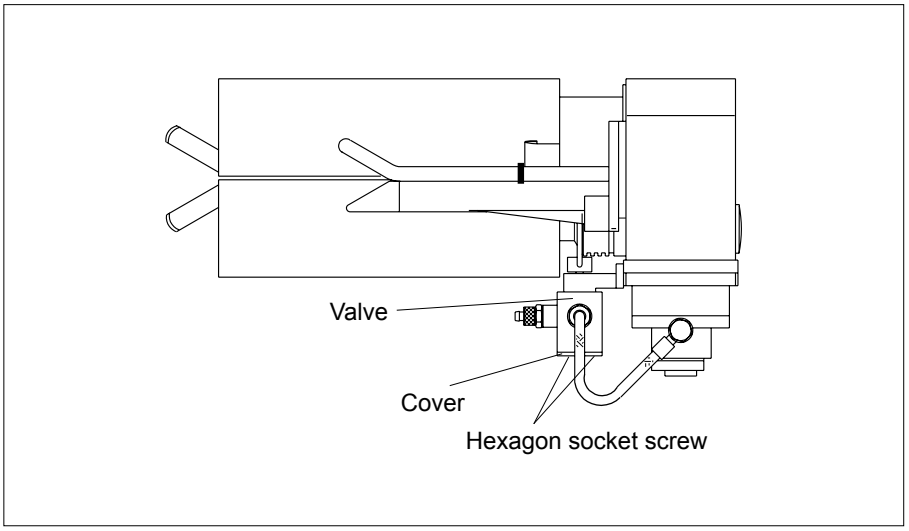
The web guider must only be operated with dry, dust and grease-free compressed air via a pressure reducer. The pressure exercised by the rollers depends on the operating pressure, see the table below:

Operating pressure (bar)		Nip pressure (N)
0,5		approx. 45
1,0	**Works setting**	approx**. 90**
1,5		approx. 140
2,0		approx. 185

The maximum operating pressure is 2.0 bar.

5.3 Sensor lever contact pressure

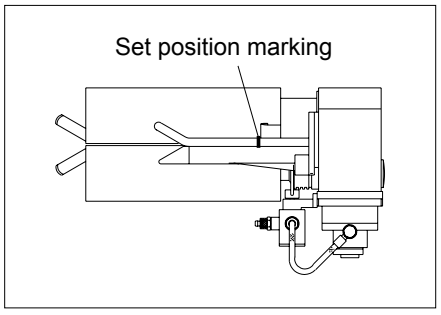
The system pressure is works set to approx. 0.2 N. The contact pressure may be changed as follows if necessary:



‖ Hold the cover with your fingers to keep the spring tensioned while the two hexagon socket screws are being loosened.

➜ Loosen the two hexagon socket screws on the valve and turn the cover until the desired contact pressure is reached (turn to the left = reduce contact pressure, turn to the right = increase contact pressure. Retighten the hexagon socket screws.

6. Operation



! Only insert the web when the processing machine is switched off. Risk of injury!

➜ Position the web guider so that the marking is located at the desired set position.

➜ Insert the web.

➜ Enable the compressed air.

➜ Start the processing machine.

7. Maintenance

! Maintenance work must only be performed when no pressure is supplied and when the processing machine is switched off.

➜ Clean the web guider regularly, depending on the ambient conditions.

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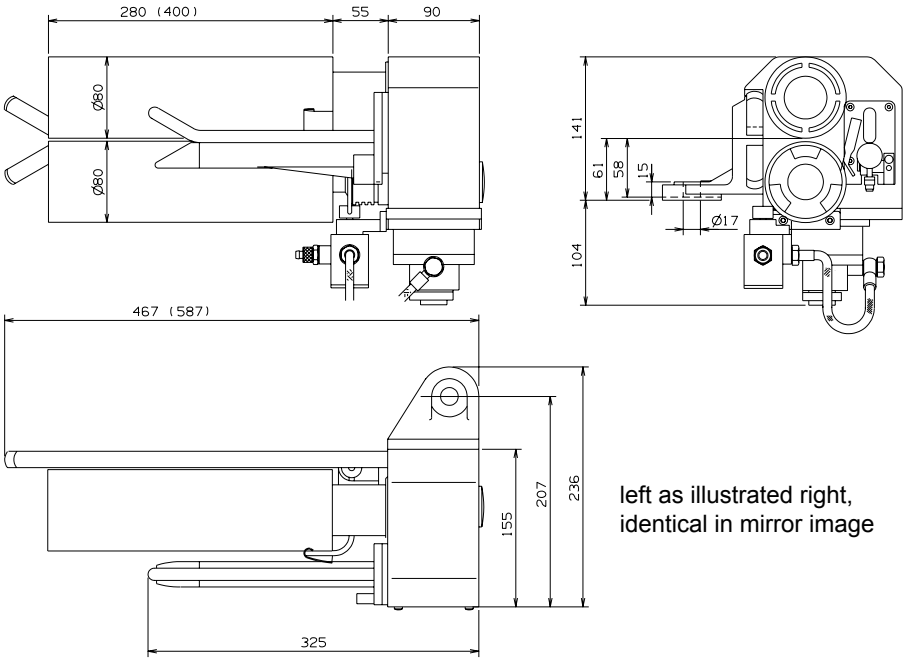
8. Technical data

Guiding precision	± 1 mm
Web type	woven webs
Web condition	dry, damp (water-extracted), wet (neutral)
Web width with roller length 280 mm with roller length 400 mm	 650 to 3500 mm 900 to 4500 mm
Web speed	approx. max. 200 m/min depending on the typ of web handled
Web weight	approx. max. 500 g/m^2
Ambient temperature	0 to 80 °C
Control pressure works setting	0.5 to max. 2 bar 1 bar
Compressed air consumption	approx. 0.6 m^3/h per pair
Supply voltage (motorized positioning)	3 x 400 V AC, 50/60 Hz
Weight	approx. 22 kg/pair

Dimensions



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Technical data subject to modification without notice