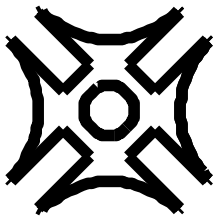
Cutting machine

Type C057 SLV

with adjustable cutting length

Translation of the original operating manual



Burst & Zick GmbH

Retention of title

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This documentation and the information contained therein have been compiled with the appropriate care.

The company Burst & Zick GmbH however shall not accept responsibility for typing and other errors or damages resulting therefrom.

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EC Declaration of Conformity
In according to EC Machinery Directive 2006/42/EG
Appendix II A

We herewith declare that the machine described hereinafter satisfies the essential safety and health requirements set out in the EC Machinery Directive with regard to its design and construction as well as the type marketed by us.

In case of an alteration of the machine without our agreement this declaration shall become void.

We furthermore point out that for the installation of spare parts only original parts of the company Burst & Zick GmbH may be used.

Description of the machine:	**Cutting machine**
Machine type:	**C057 SLV**
Machine number:	
Applicable directives:	EC Machinery Directive (2006/42/EG appendix II A) EC Electromagnetic Compatibility Directive (2014/35/EG)
Applied harmonized standards, particularly:	EN ISO 12100:2010 DIN EN 60204-1 DIN EN 13857 DIN EN 61000-6-1 DIN EN 61000-6-3

The company Burst & Zick GmbH is authorized to compile the technical documentation.

Attachment of the CE label:	**CE**
Place/Date/Signature:	Karlsruhe, den 23.07.2024

Bernd Adler Managing director

General Information

1. Notes on Industrial Safety

The following notes on industrial safety have to be specially adhered to:

- The cutting machine C057 SLV has been constructed according to the current state of the art and conforms to the ESD regulations. Nevertheless, perils may arise from this device if it is used by untrained personnel or for other than the intended purposes.

- **Statement on the Residual Risk**
  1. Danger of electric shock if the switchbox is opened while voltage-carrying. Work in and on the electrical equipment may principally only be carried out by qualified electricians.
  2. Danger of contusion and shearing during set up operation.

  The danger areas are marked with signs.



- Applicable accident prevention regulations have to be adhered to by the user, particularly the
  - DGUV-regulation 1

- The machine may only be operated by trained specialist personnel.

- Any mode of operation which can impair the safety of the device has to be refrained from.

- The user undertakes to operate the device only in perfect condition.

- Unauthorised alterations or variations which impair safety have to be refrained from.

- Safety devices may principally not be dismantled or put out of operation. If it is indispensable to dismantle safety devices for the purpose of tool changes or for maintenance and repair work, the safety device has to be reinstalled immediately afterwards.

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3. General description

The cutting machine C057 SLV is used for dimensionally stable cutting of component lead wires. A re-cutting after soldering is unnecessary in this case.

In the cutting plate there are hole-patterns which can be used for cutting plug-rails, transistors, IC's, capacitors, resistors and similar components. The components have to be feed manually in the suitable hole-pattern and by releasing the foot-switch cut exactly on length.

The standard cutting length is 3 mm (measured from the lower edge of the component body). If a longer length of wire needed, you can reach this by adjusting the cover plate on the basis of 2 micrometers. Should a shorter wire length needed a thinner cover plate is required.

The drillings of the hole-patterns are made out in the pitch of 2,5 mm and as the pitch of 2,54 mm (Inch).
The hole-diameter is 1,1 mm. (Larger drillings can be made upon request)

By obliquely arranged blade edge of the cutting pressure is applied to the component kept low, so that even pin headers with thicker pins can still be easily cut.

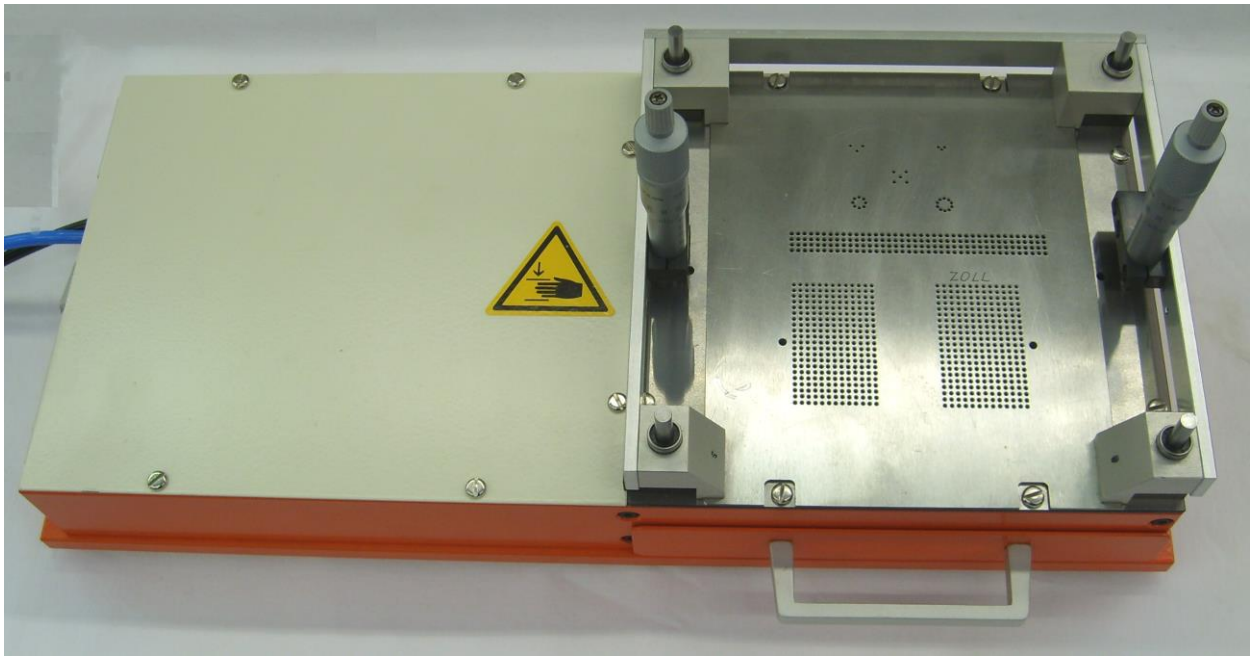


Fig. 1

Cutting machine C057 SLV

4. Technical data

Dimensions without foot valve	Width: Depth: Height:	230 mm 450 mm 180 mm
Weight:		app. 7,5 kg
Air pressure		6 bar
Pitch size		2,5 mm and 2,54 mm
Hole pattern		13 x 21 drillings for plug-rails, and as well round-pitch for power amplifiers and transistor
Lead Ø		Standard 0,8 mm (other dimensions upon request)
Cutting length		3mm – 20 mm
Operating		via pneumatic foot switch
Special hole pattern		upon request
Loudness		≤ 70 dB

Commissioning

1. Installation

The machine will be delivered ready assembled. Check the delivery immediately on the basis of the delivery note or packing list. If the delivery is incomplete or damage occurred during transport is to notify us immediately.

The machine may only be used indoors.

Place the machine on a stable, level working table and put the foot pedal on the ground in a convenient position for the operator.

2. Connecting the machine

Foot switch and connection-tube are attached to the device and have to be connected by the customer according to the enclosed pneumatic diagram. We recommend to integrate a service unit with pressure controller into the connection-tube.

Air pressure has to be 6 bar.

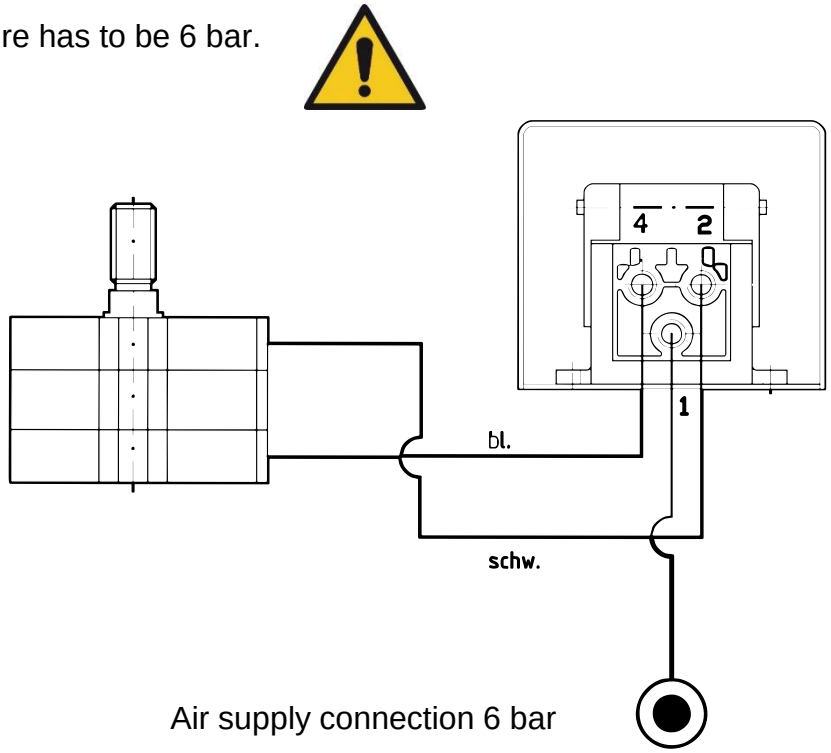


Fig. 2

Connection diagram

3. Working with the machine

Adjust the desired cutting length with reference to the two micrometer screws. It is important to ensure that the two micrometer screws are set at the same height. Insert a component in the cover plate and make sure that the component always is to lower edge of the component body inserted into the cover plate. Only in this way ensures that the parts are cut to the same length.

The cutting procedure will released afterwards by the foot switch. This can optionally be adjusted on the two micrometer screws (see Fig. 3).

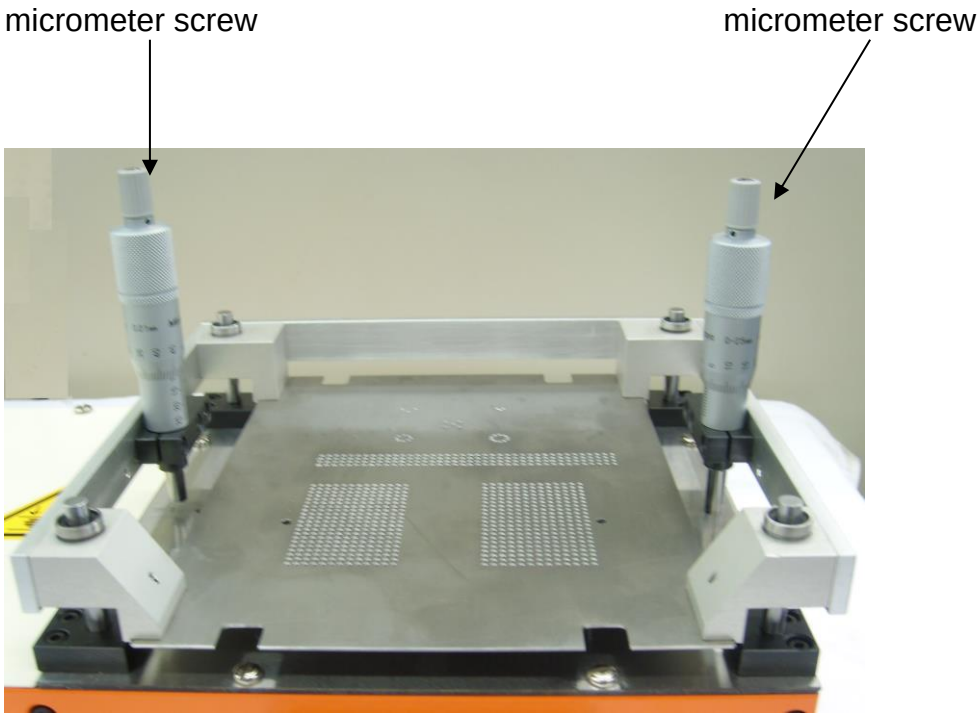


Fig. 3
Adjustable cover plate

Use only with mounted machine cover plates.



Retool

1. General comments on the adjustment of the machine

- Secure the machine, in case of modification or service-work on it, against a non-purpose

  Switch off compressed air

- Please make sure that all screws will be tighten again, after having finished the settings although this is not explicitly mentioned in the following text.
- The machine is equipped to the length by the factory. To prevent damage, setting changes must be carried out carefully by means of existing instruction by qualified personnel.



2. Change the cutting blade

1. Remove the cutting length adjustment (1)
2. Remove the 8 screws (2) and remove the cutting plate (3).
3. Remove the cutting blade and the pressure springs.
4. Oil the guide pilar and insert a new cutting blade and pressure springs.
5. Check the underside of the cutting plate for wear.
6. Reassemble the machine in reverse.

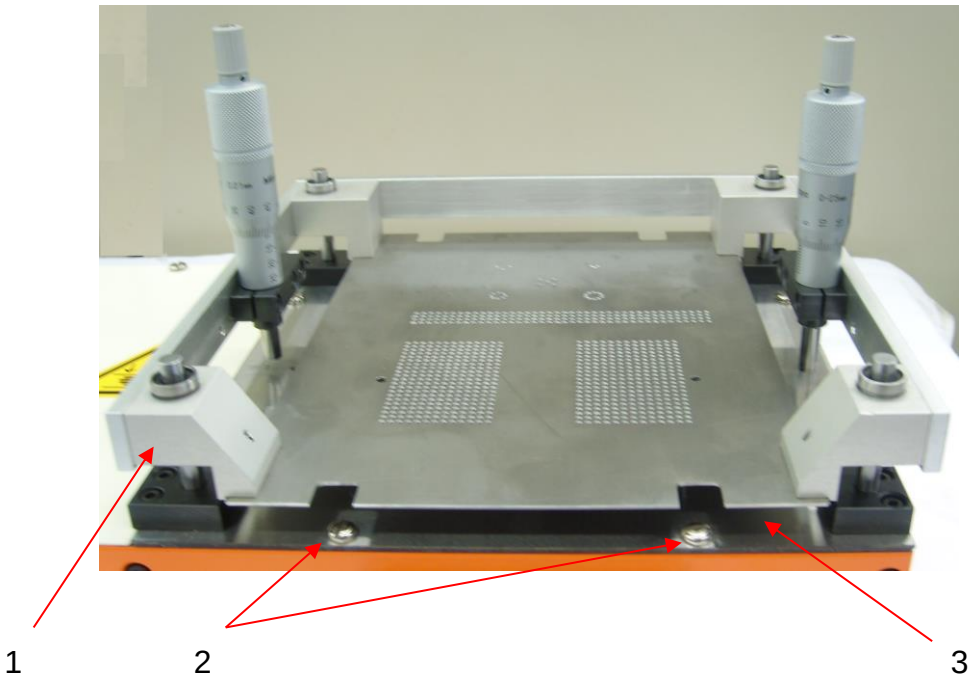


Fig. 4

Change cutting blade



3. Re-Grinding of Top- and Cutting Plate

Cutting plate and cutting blade are made of high quality tool steel and hardened. Normally it is not necessary to re-grind these parts. In case it is needed it is very easy to dismantle these parts.

Please note, that the lead-length will be reduced by the same dimension as you re-grind the cutting plate. The re-grinding of the cutting blade has no influence on the lead length.

To avoid mistakes by doing the above, we recommend that the re-grinding is done by the manufacturer.



4. Faults and their Rectification

Caution: **All maintenance and repair work may only be performed by qualified and trained specialist personnel!**



If used properly, the machine will function virtually without trouble. If, contrary to expectation, faults should occur, please inform your supplier first.

Your contact: **Burst & Zick GmbH, Tel. +49 721/61 17 75**

The type of fault discussed consequently can be taken down in the following table with the description of causes and measures for the correction of the faults.

Type of fault	Cause	Measures

Maintenance

1. Maintenance Plan

Operating hours / Period	Maintenance Instructions
daily	By using a brush clean the device of waste leads and other garbage.
monthly	Clean all sliding parts and oil lightly. **No grease!**

Caution: All maintenance and repair work may only be performed by trained specialists!

Caution: No grease may be used for lubricating moving and sliding parts. Use thin lubricants only, for example Fin Super from Interflon or similar lubricants.





Technical documents

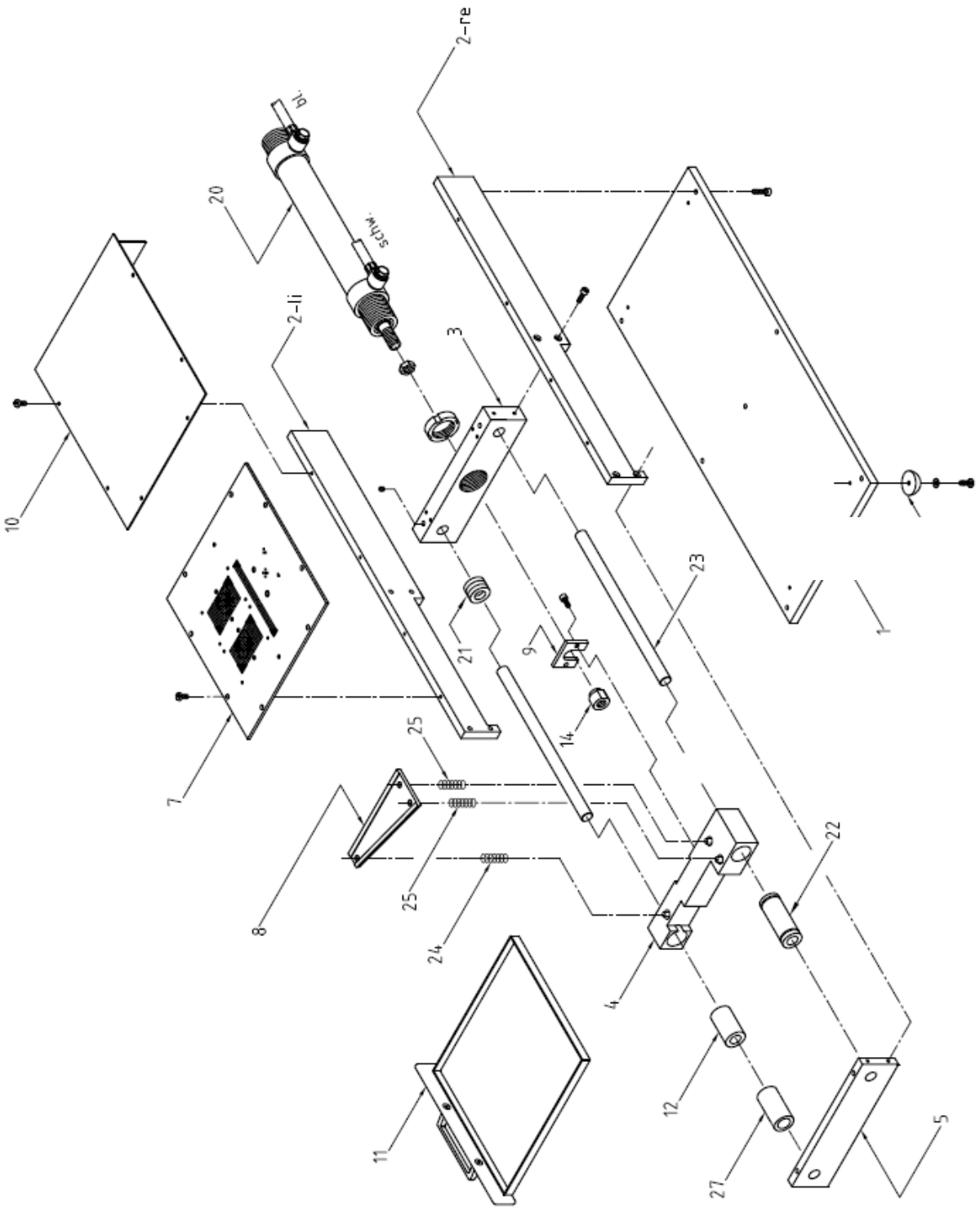
- Part and spare parts list for mechanical parts
- Exploded view C057
- Drawing C057 SLV
- Pneumaticplan

1. Parts and spare parts list

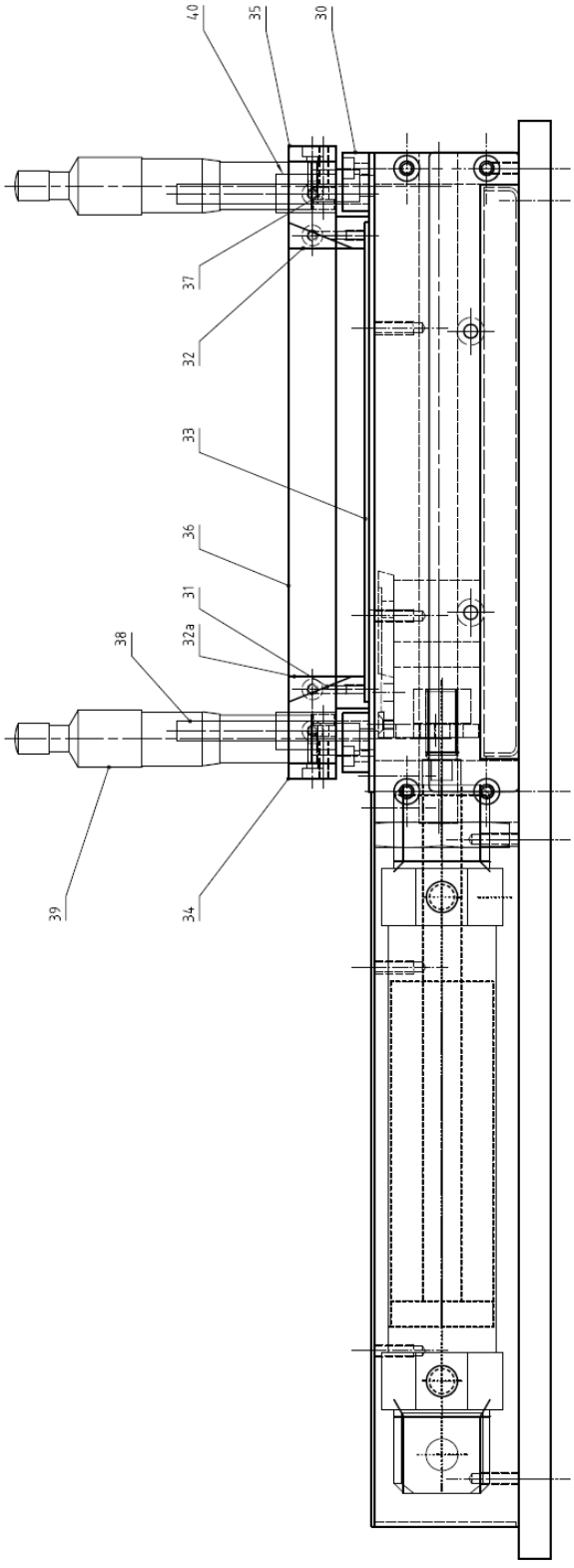
Item	Description	Drawing-No.	Quantity
1	Base plate	C057 P T. 1	1
2	Side plate	C057 P T. 2	1x left, 1x right
3	Mounting block (Rear)	C057 P T. 3	1
4	Cutting blade drive block	C057 P T. 4	1
5	Mounting block (Front)	C057 P T. 5	1
7*	Cutting plate	C057 P T. 7	1
8*	Cutting blade complete	C057 P T. 8	1
9	Plate	C057 P T. 9	1
10	Machine cover	C057 P T.10	1
11	Scrap tray	C057 P T.11	1
12*	Bushing	C057 P T.12	1
14	Coupling block	C057 P T.14	1
20*	Cylinder DSW 32-118		1
21*	Felt ring		2
22*	Bushing N-12 L V		1
23	Shaft ∅12h6 x 210, hardened		2
24*	Spring Best.- No. 46-2-3		1
25*	Spring Best.- No. 44-3-3		2
26	Rubber foot		4
27*	Felt ring		4
	Foot valve F 5 ¼ B		1
30	Fitting shaft	C057 P T.30	4
31	Guidance front	C057 P T.31	2
32	Guidance back right	C057 P T.32	1
32a	Guidance back left	C057 P T.32a	1
33	Cutting length adjustment plate	C057 P T.33	1
34	Guide rail left	C057 P T.34	1
35	Guide rail rigth	C057 P T.35	1
36	Guide rail back	C057 P T.36	1
37	Holder micrometer screw	C057 P T.37	2
38	Shaft 6x60, hardened		4
39	Micrometer screw 0-25mm		2

Spare parts are marked with *

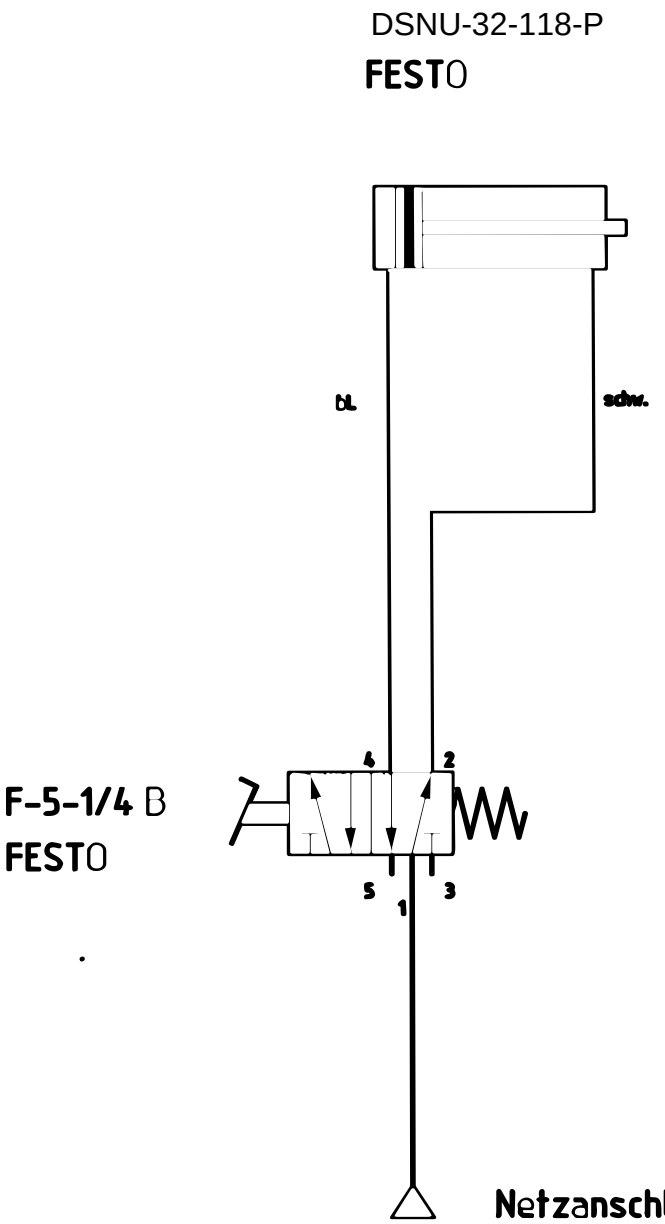
2. Exploded view C057



3. Drawing C057 SLV



4. Pneumatic plan



Air supply connection 6 bar