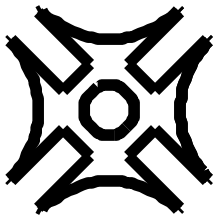
Cutting machine

Type C057

Translation of the original operating manual



Burst & Zick GmbH

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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:	**C 057**
Machine number:	
Applicable directives:	EC Machinery Directive (2006/42/EG appendix II A) EC Electromagnetic Compatibility Directive (2014/30/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
Attachment of the CE label:	**CE**
Place/Date/Signature:	Karlsruhe, den 08.10.2021

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 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 device may only be operated by trained 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.

2. Table of contents

Page

General Information 4

1. Notes on Industrial Safety 4
2. Table of contents 5
3. General description 6
4. Technical data 7

Commissioning 8

1. Installation 8
2. Connecting the machine 8
3. Working with the machine 9

Retool 9

1. General comments on the adjustment of the machine 9
2. Change the cutting blade 10
3. Re-Grinding of Top- and Cutting Plate 10

Faults and their rectification 11

Maintenance 12

1. Maintenance plan 12

Spare parts catalogue 13

1. Spare parts list 13
2. Exploded view C057 14
3. Pneumatic plan 15

3. General description

The cutting machine C057 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). Another cutting length can be achieved by using a thinner top plate (shorter lead length) or by adding a spacer plate (longer lead length).

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.

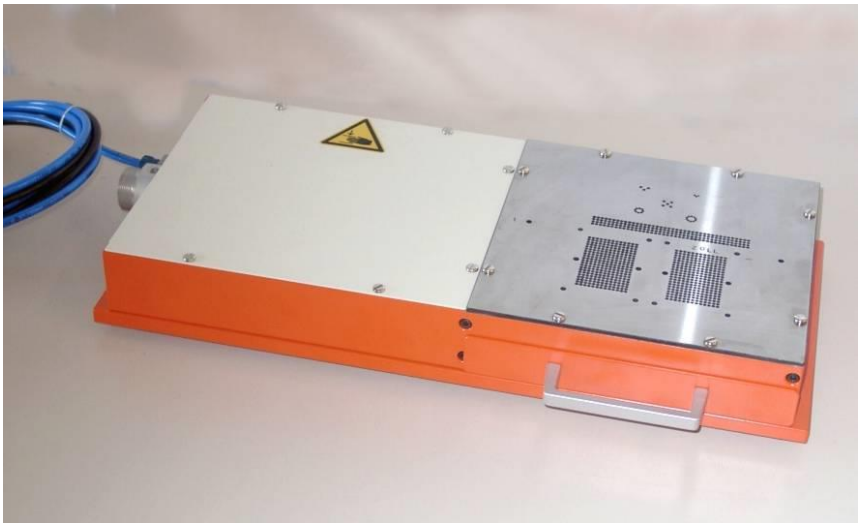


Fig. 1
Cutting machine C057

4. Technical data

Dimensions without foot valve	Width: Depth: Height:	200 mm 450 mm 80 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 – 1,3 mm (other dimensions upon request)
Cutting length		Standard 3 mm (other dimensions upon request)
Operating		via pneumatic foot switch
Special hole pattern		upon request

Commissioning

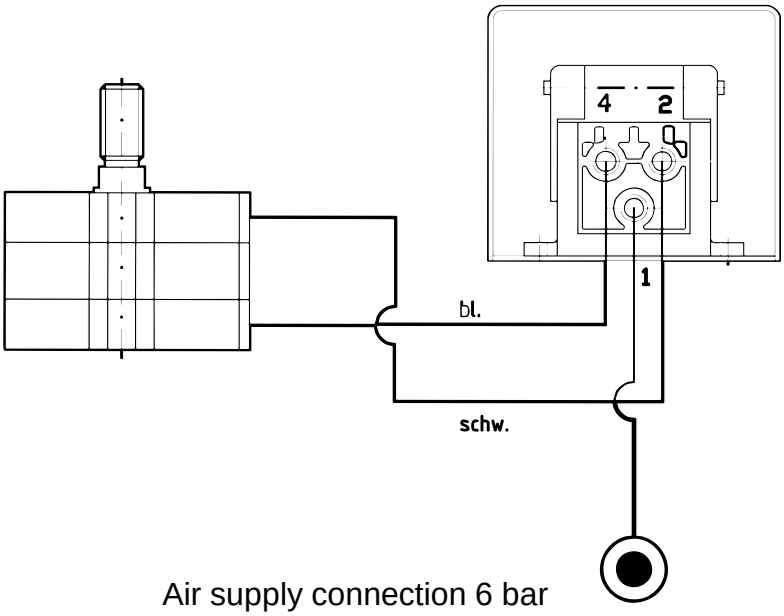
1. Installation

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.
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 should be 6 bar.
On machines with manual release, you only need to connect the supply line. We recommend in the supply line a maintenance unit with pressure regulator installed. To be set pressure 6 bar.

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 valve and connection hose are enclosed loosely and must be connected by the customer in accordance with the enclosed pneumatic plan. We recommend installing a maintenance unit with a pressure regulator in the supply line.
The pressure to be set is 6 bar



Air supply connection 6 bar

Fig. 2
Connection diagram

3. Working with the machine

After the cutting machine has been connected as described above, insert a component in the cover plate. PIease take care, that component is put completely into the machine, which means until the lower edge of the component body. This is very important to achieve always the same cutting length. The cutting procedure will released afterwards by the foot switch or respective by the hand-switch, depending on the version of machine you have.

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 8 screws (1) and remove the cutting plate (2).
2. Remove the cutting blade and the pressure spring.
3. Oil the guide pillar and insert a new cutting blade and pressure springs.
4. Check the under side of the cutting plate for wear.
5. Reassemble the machine in reverse.

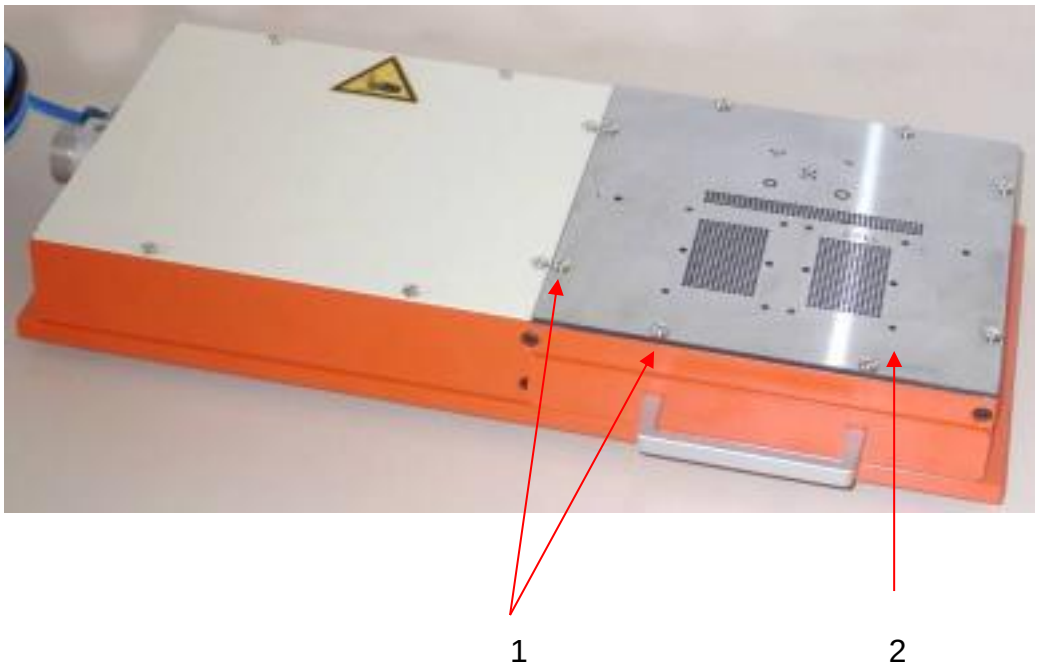


Abb. 4
Change cutting blade



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.



Faults and their rectification

Caution: **All maintenance and repair work may only be performed by qualified and trained 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 greace**

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, such as spray oil.





Spare parts catalogue

Cutting machine

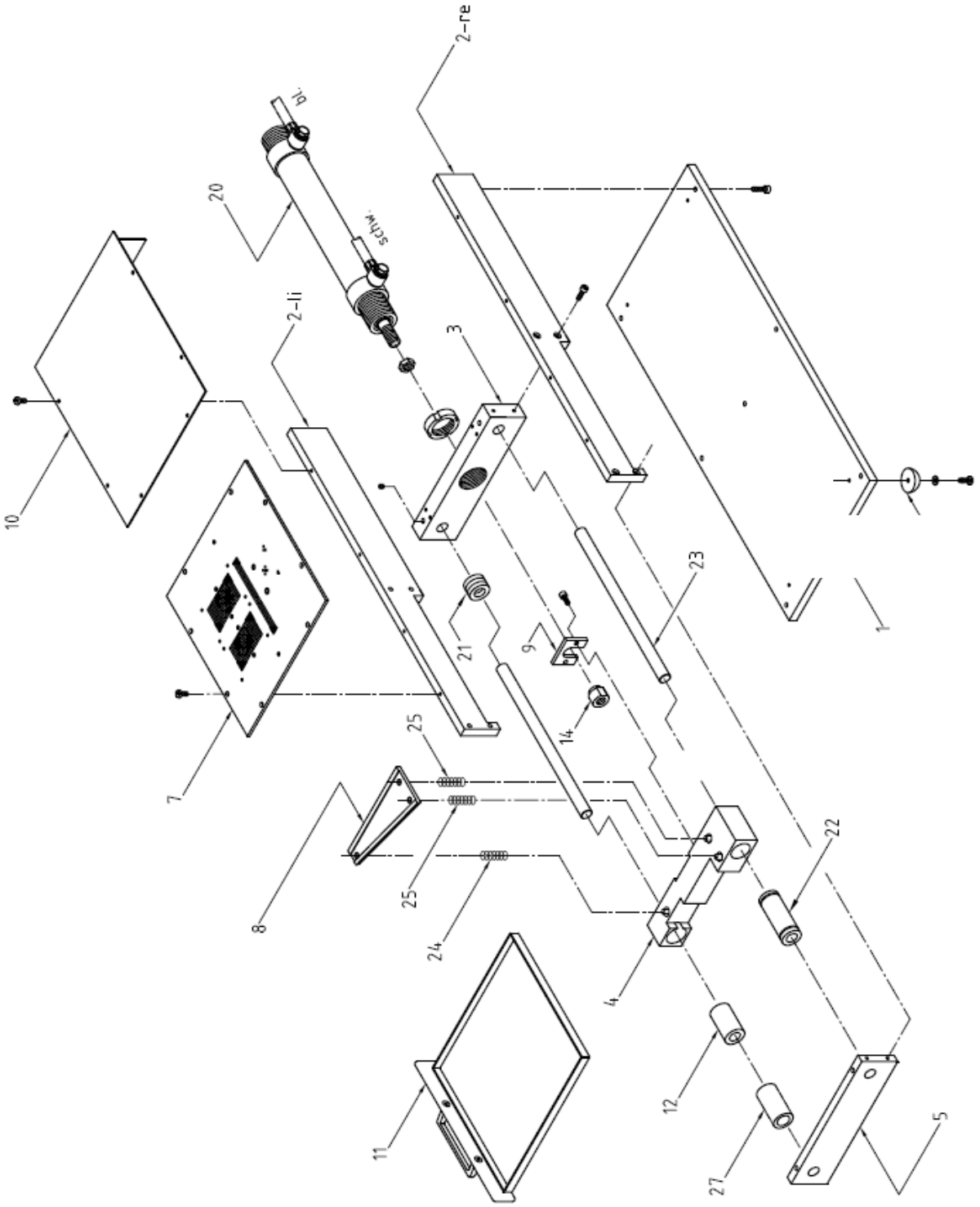
C057

1. Spare parts list

Item	Description	Drawing-No.	Quantity
1	Base plate	T. 1	1
2	Side plate	T. 2	1x left, 1x right
3	Mounting block (Rear)	T. 3	1
4	Cutting blade drive block	T. 4	1
5	Mounting block (Front)	T. 5	1
7*	Cutting plate	T. 7	1
8*	Cutting blade complete	T. 8 + T. 6	1
9	Plate	T. 9	1
10	Machine cover	T.10	1
11	Scrap tray	T.11	1
12*	Bushing	T.12	1
14	Coupling block	T.14	1
15*	Spacer plate (Option)	T.15	1
20*	Cylinder DSNU-32-118-P		1
21*	Felt oil pad		3
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	Tube		1
	Foot valve F 5 ¼ B		1

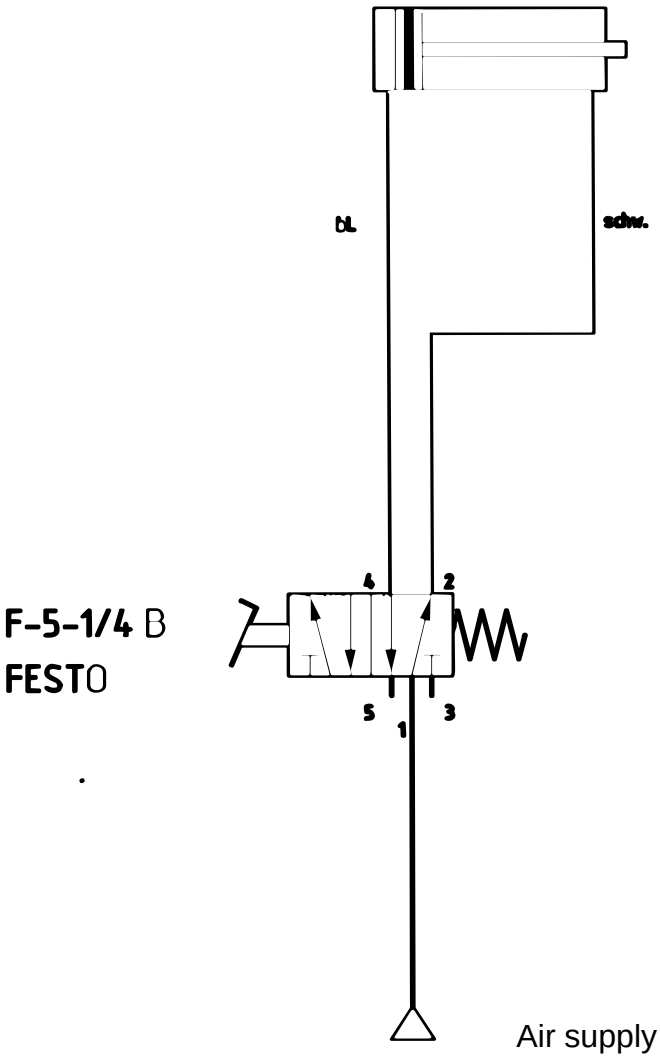
Spare parts are marked with *

2. Exploded view C057



3. Pneumatic plan

DSNU-32-118-P



F-5-1/4 B
FESTO

Air supply connection 6 bar