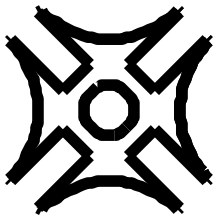
Cutting and bending machine
for radial taped components

Type C094

Translation of the original operating manual



Burst & Zick GmbH

Eigentumsvorbehalt

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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 there from.

Version: 3.3

Stand: March 2021

Autor: Burst & Zick GmbH
Vorrichtungsbau
An der Rossweid 8
D – 76229 Karlsruhe
Tel. +49 721/61 17 75
Fax. +49 721/61 53 92

Burst & Zick GmbH
Vorrichtungsbau
An der Rossweid 8
D – 76229 Karlsruhe
Tel. +49 721/61 17 75
Fax. +49 721/61 53 92
E-Mail: kontakt@burst-zick.com
Internet: www.burst-und-zick.de

EC Declaration of Conformity
In according to EC Machinery Directive 2006/42/EC
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 and bending machine**
Machine type:	**C 094**
Machine number:	**21.04.133**
Applicable directives:	EC Machinery Directive (2006/42/EC appendix II A) EC Low Voltage Directive (2014/35/EC); EC Electromagnetic Compatibility Directive (2014/30/EG)
Applied harmonized standards, particularly:	EN ISO 12100:2010 DIN EN 13857 DIN EN 60204-1 DIN EN 61000-6-1 DIN EN 61000-6-3 DIN EN 14070 was pulled up informatively
Attachment of the CE label:	**CE**
Place/Date/Signature:	Karlsruhe, den 04.05.2021

Managing director

General

1. Notes on industrial safety

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

- The cutting, forming and bending machine C094 has been constructed according to the current state of the art and conforms to the ESD regulations. Nevertheless, perils may arise from this machine 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 setup 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 personnel.

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

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

- Unauthorized 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 and bending machine C094 has been specially developed for the processing of radial taped components. Optionality the machine can also be used for bending and forming of radial taped components.

The feeding of the components is done exclusively via tape rolls. For this purpose a combined receptacle for component-rolls or ammopack are available.

The component tape is transported to the processing station via a transport comb. First, the component is touched to compensate for the belt tolerances, after which it is processed. The cutting length is determined by the tool.

With the use of exchangeable tape-feedings it is possible to work with components of a pitch size of 12,7 mm and as well with components of a pitch size of 15 mm.

The finished parts are being delivered into a container in loose form.

Options:

- De-reeler for all common tape rolls
- Electrical counter that switches the machine off automatically when the preselected number of pieces is reached.

4. Technical data

Dimensios	Widht:	500 mm (without de-reeler)
	Depth:	400 mm
	Height:	500 mm
Weight:		ca. 20 kg
Drive:		Electro – pneumatic control
Electrical connection:		115V / 50 - 60 Hz or 230V / 50 - 60 Hz look at the lable
Air pressure:		6 bar
Cycle time:		max. 5000 components / hour
Tape hole spacing:		12,7 mm bzw. 15 mm (umrüst-bar)
Component pitch:	min.	2,5 mm
	max.	form dependent
Wire ∅:		0,4 bis 0,8 mm

5. Spezification:

Please note:

All IEC approved taped components can be processed with this machine.

Should parts, not conforming to IEC standard norm, be processed through this machine, our otherwise provided machine guarantees are not applied.

Note

tolerance per 20 holes of component tape: +/- 1mm

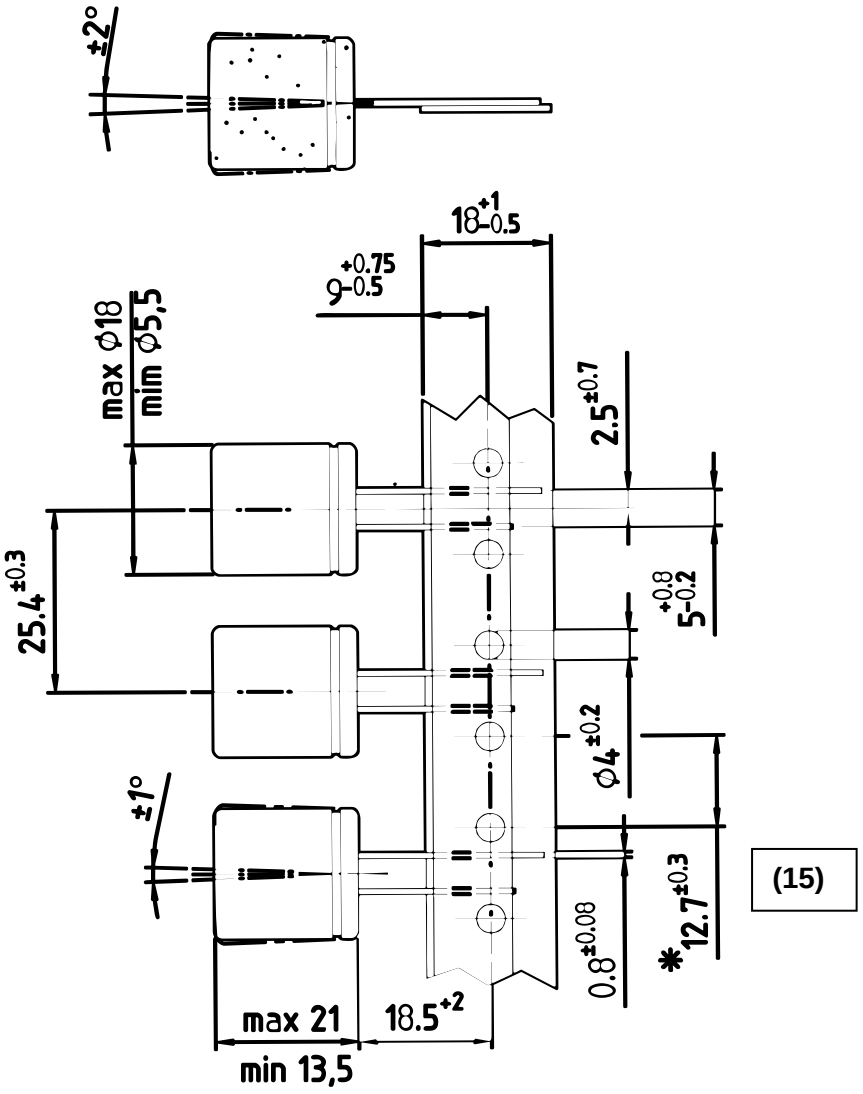


Figure 1

IEC Form Tolerances

6. Construction of the maschine

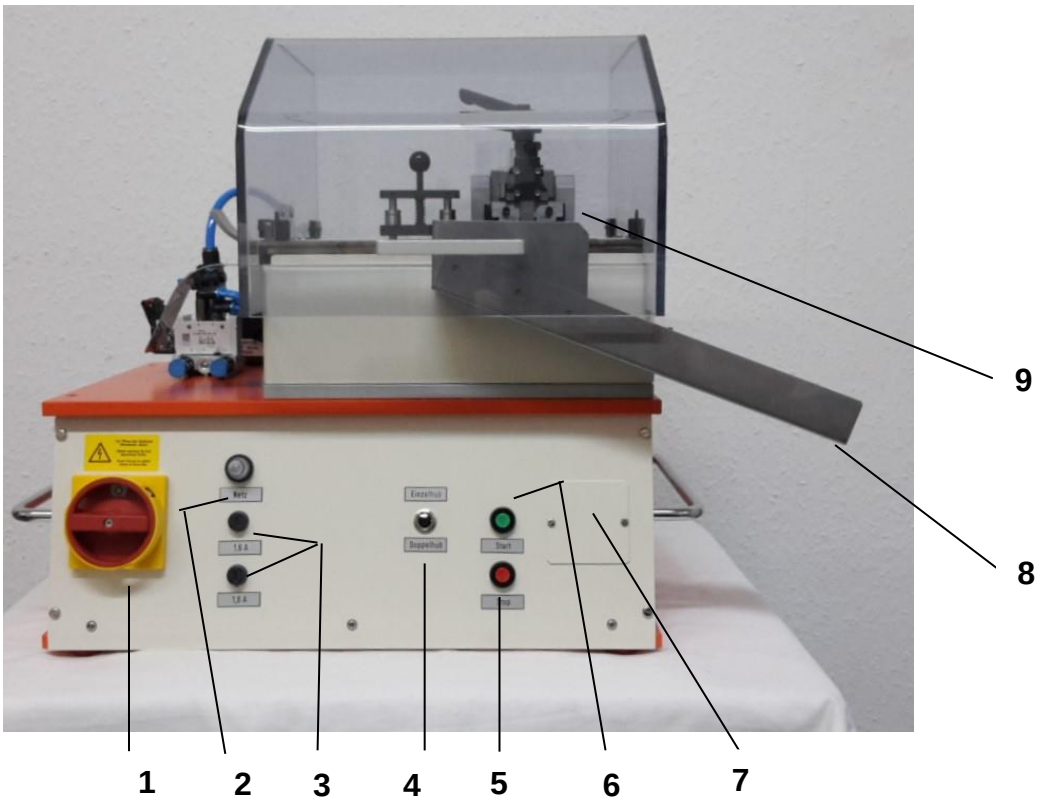


Figure 2
General view

1. Mainswitch, emergency stop maschine ON – OFF
2. Power lamp
3. Fuses
4. Switch single- double stroke
5. Stop
6. Start
7. Counter (Option)
8. Component slide
9. Tools

Commisioning

1. Installation

The machine is delivered fully assembled and installed. Please check the shipment immediately with the help of the delivery note and/or the packing list. In case the consignment is incomplete or if damages have occurred during transport, please inform us immediately.

Place the machine on a stable, level working table.

2. Connection

- Connect power cable with 230V / 50 Hz or 115V 50/60 Hz socket. Look at the lable witch voltage you need.
- A pressure regulator with hose connection NW 6 is provided on the back of the machine for connection to the compressed air network.

  Set air pressure to 6 bar

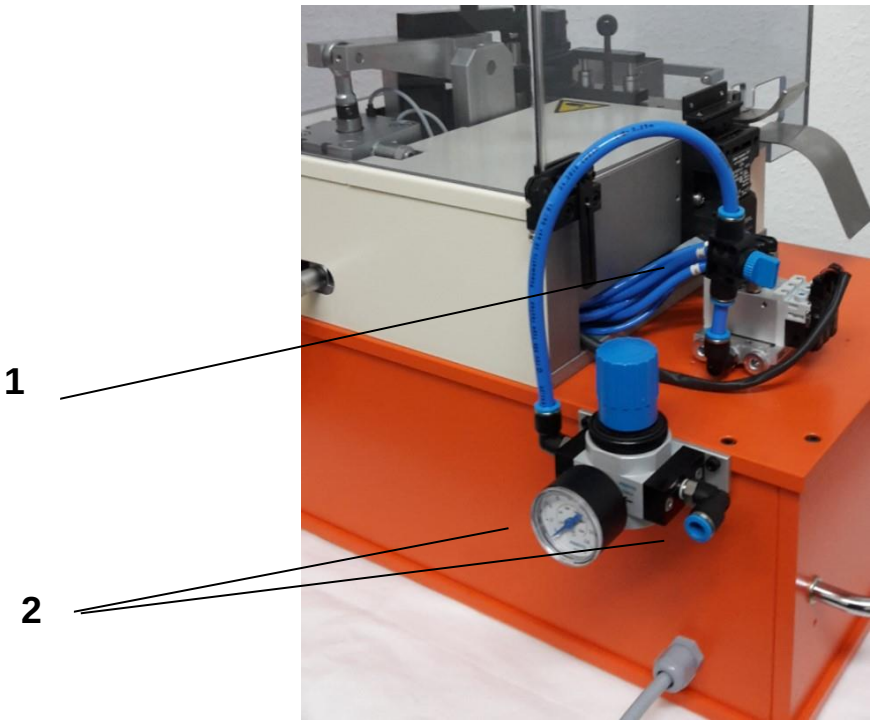
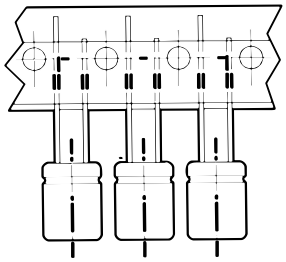


Figure 3 – air connection

1. Shot-off-valve
2. Manometer with air connection

3. Insering component tape

3.1. Smaller components are mostly taped like this



1. In this case set switch SINGLE STROKE – DOUBLE STROKE to **SINGLE STROKE**
2. Insert component tape as follows:
   2.1. Open protection cover.
   2.2. Slide component tape from left into the guiding rails.
   2.3. Lift component centering at the handle and slide the tape over the catch pins so that the first component arrives immediately in front of the tool.
   2.4. Lower the component centering. The centering pins must enter the transport holes.
   2.5. Check:
      1. Switch set to **SINGLE STROKE.**
      2. The first component in the tape is right in front of the tool.

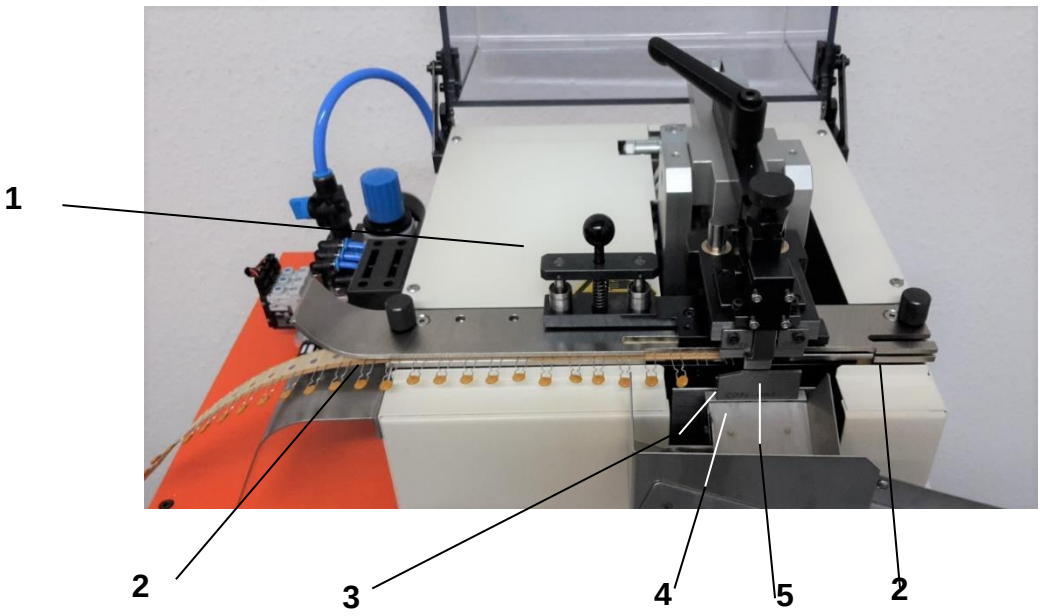
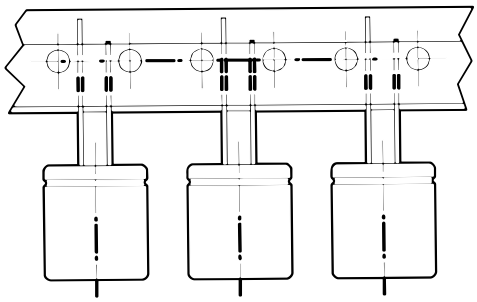


Figure 4 - Tape centering and tools

1. Handle (Lift up the tape centering)
2. Knurled screw (component guide clamping)
3. Lower tool
4. Upper tool
5. Clamping die

3.2 Larger components are mostly taped like this:



1. Set switch SINGLE STROKE – DOUBLE STROKE to **DOUBLE STROKE** .
2. Insert component tape as follows:
   - 2.1. Open protection cover.
   - 2.2. Slide component tape from left into the guiding rails.
   - 2.3. Lift component centering at the handle and slide the tape over the catch pins so that the first component arrives immediately in front of the tool.
   - 2.4. Lower the component centering. The centering pins must enter the transport holes.
   - 2.5. Check:
     1. Set switch to **DOUBLE STROKE**.
     2. The first component in the tape is right in front of the tool.

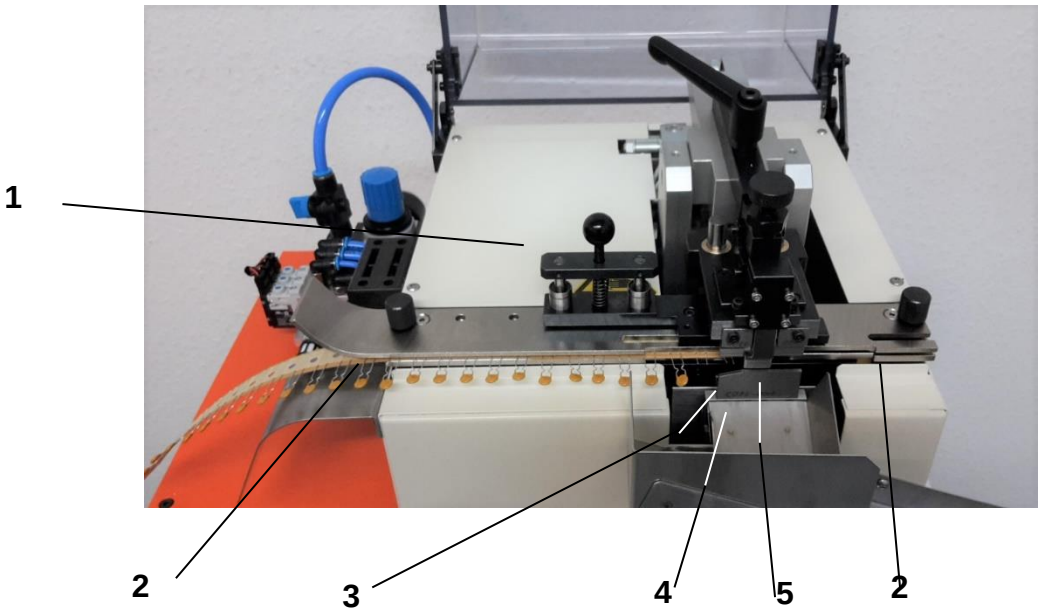
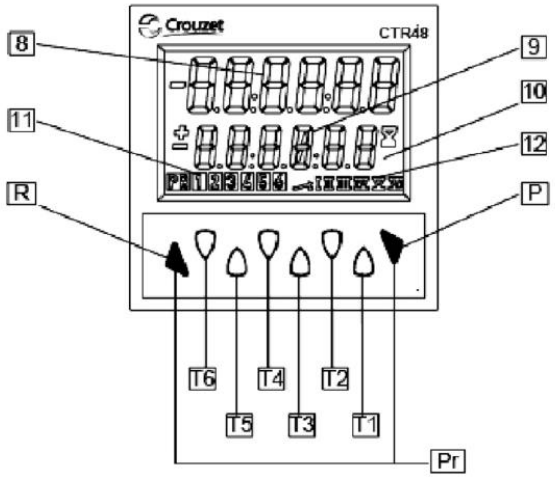


Figure 5 - Tape centering and tools

1. Handle (Lift up the tape centering)
2. Knurled screw (component guide clamping)
3. Lower tool
4. Upper tool
5. Clamping die

4. Counter (optional)

Extract from original instruction of the manufacturer, Crouzet



T1–6	Decade key T1…T6
P	Prog/Mode key
R	Reset key
8	Current count value/main counter
9	Preset value/Total count/Batch counter
10	Run display for Timer
11	Shows which preset value is being displayed
12	Shows which preset output is active
PR	Keys necessary for programming the parameters (highlighted in grey)

5. Switch on the machine

The following switch-on conditions must be fulfilled:

- Main switch ON
- Air pressure on (shut-off valve open).
- Protection cover close.
- Counter must be reset.

Start the machine by pressing the start button.

6. Stop the maschine

When the target number of pieces is reached, or by pressing the stop button or canceling one of the switch-on conditions. (opening the protective cover)

7. Working speed

The cycle-time of the Machine was set by the use of cylinders – and air chokes to an optimum.

Please do not make any changes here.

Retool

1. Basic remarks on setting the machine

- Secure the machine for retrofitting and maintenance work so that no unintentional (unauthorized) connection can take place.

  Switch OFF the machine and pull out the mains plug

- Make sure that all loosened screws are tightened again after all settings.
- Upon request, the manufacturer will set up the machine for any chosen component. To prevent damage to the unit and/or tooling changes to settings should be performed based on instructions provided in the manual.

2. Tool change

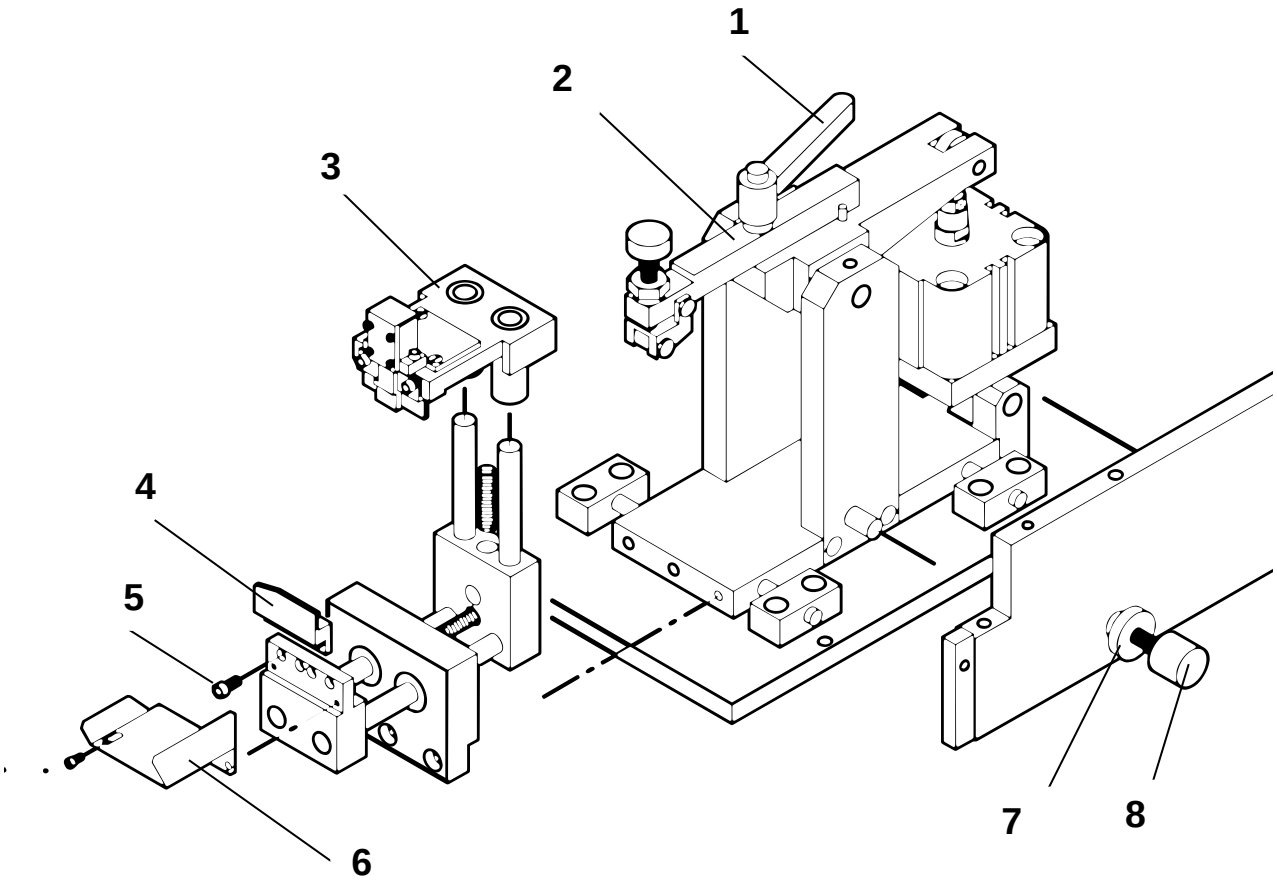


Figure 6 – Tool change

1. Locking lever
2. Tooling lever
3. Komplete upper tool
4. Lower tool
5. Allen screw
6. Component slide
7. Knurled knob
8. Spindle

1. Upper tool

1.1. Loosen the clamping lever (1) and swivel the tool lever (2) to the side.

1.2. The complete upper tool (3) can then be easily removed from the top of the guide columns and can be replaced.

1.3. Push the new tool down by hand and swivel the tool lever (2) back into the working position.

1.4. Tighten the clamping lever (1) again.

2. Lower tool

2.1. Remove component slide (6).

2.1. Remove the Allen screws (5) and take out the tool (4) towards the front.

2.3. Assemble the new tool in reverse order.

3. Adjust tools

3.1. Upper tool

Tool is fixed. No further setting required.

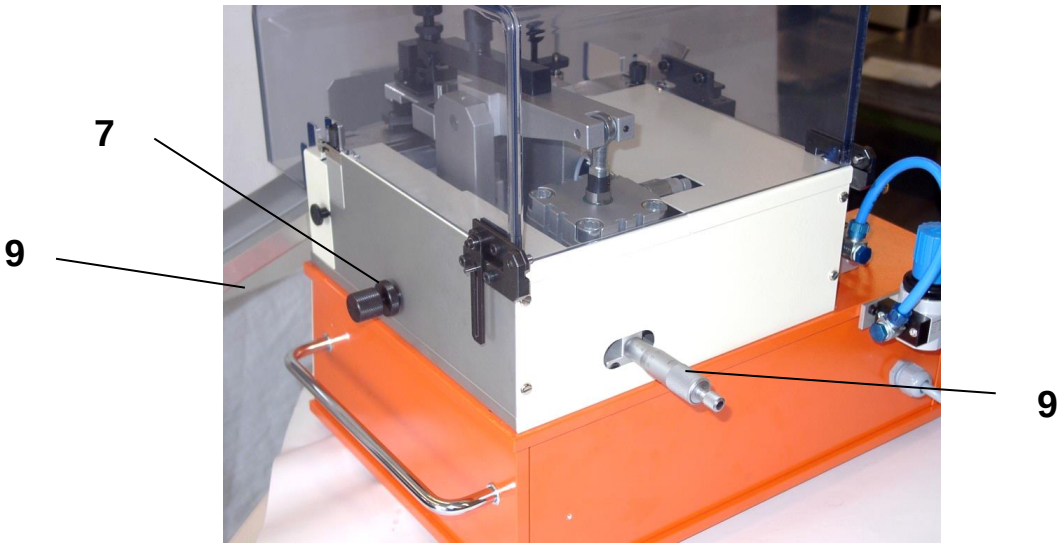
3.2. Lower tool

Readjust the lower tool when changing the component pitch.

1. Insert component tape between upper and lower tool.
2. Check if the connecting wires are exactly under the tools in the working position. Überprüfen, ob in Arbeitsposition die Anschlussdrähte exakt unter den Werkzeugen liegen. Possible correction: Loosen the knurled nut (7) and move the complete tool plate in the horizontal direction accordingly with the spindle (8).

4. Set the cutting length using the micrometer screw

Tip: For fine adjustment edit some components and measure. Adjust correct according to the specification.



Picture 7 - Adjustment of the cutting length

7. Knurled screw
8. Spindle
9. Micrometer screw

5. Modification to another pitch size

5.1. Replacement oft the tap guide

1. Remove the upper tools from the machine.
2. Interrupt the compressed air supply.
3. Remove the front protective cover.
4. Unscrew the knurled screws (10).
5. Remove the complete tape guide upwards. Use the new tape guide in it`s place. Make sure that the driving pin (11) is hooked into the feed cylinder (12).
6. Screw in the knurled screws again and. Fit the front protective cover.

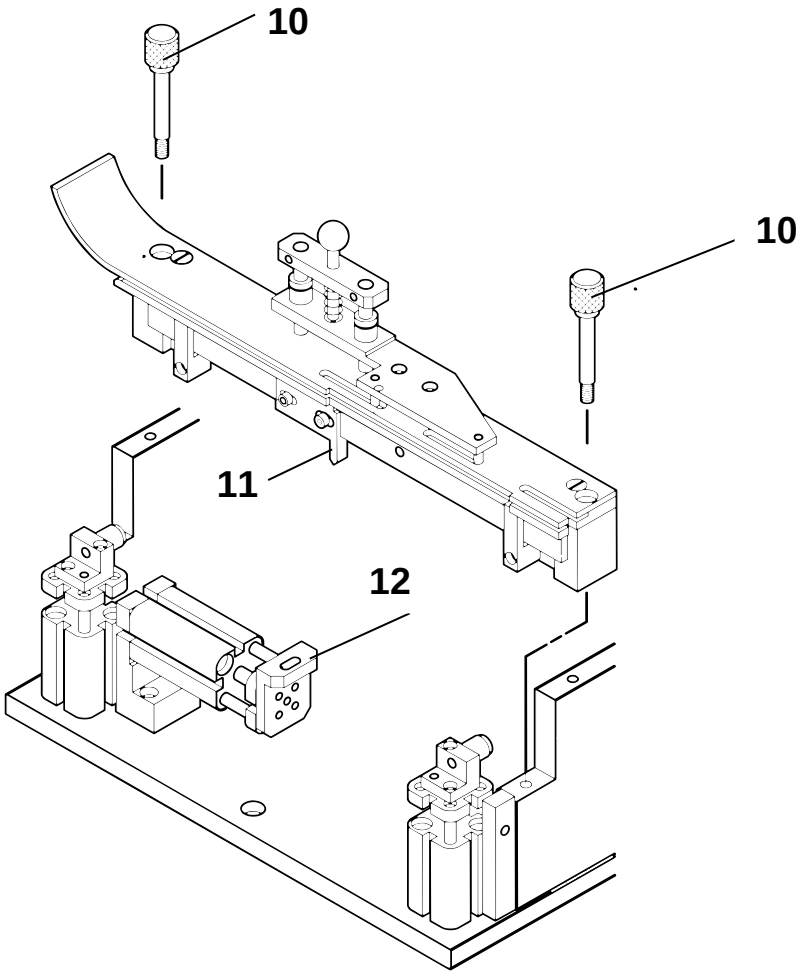


Figure 8 – Modification to another pitch size

10. Knurled screw
11. Driving pin
12. Feed cylinder

6. 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

<u>Caution:</u> All maintenance and repair work may only be performed by qualified and trained personnel !

For safety reasons, the machine must be disconnected from the mains!

Maintenance plan					
	Interval				Täsk
	d	w	m	y	
Machine general	X				Vacuum-clean or clean from wire clippings and other remains with a brush.
Tools		X			Check bending and cutting tools for tin deposits and remove these, if necessary, without damaging the tools.
All sliding parts		X			Clean and lubricate slightly with oil. **No grease**
Ball bearing			X		Clean and oil lightly
elektrische Über-prüfung			X	X	To note local provisions as in Germany DGUV Regulation 3

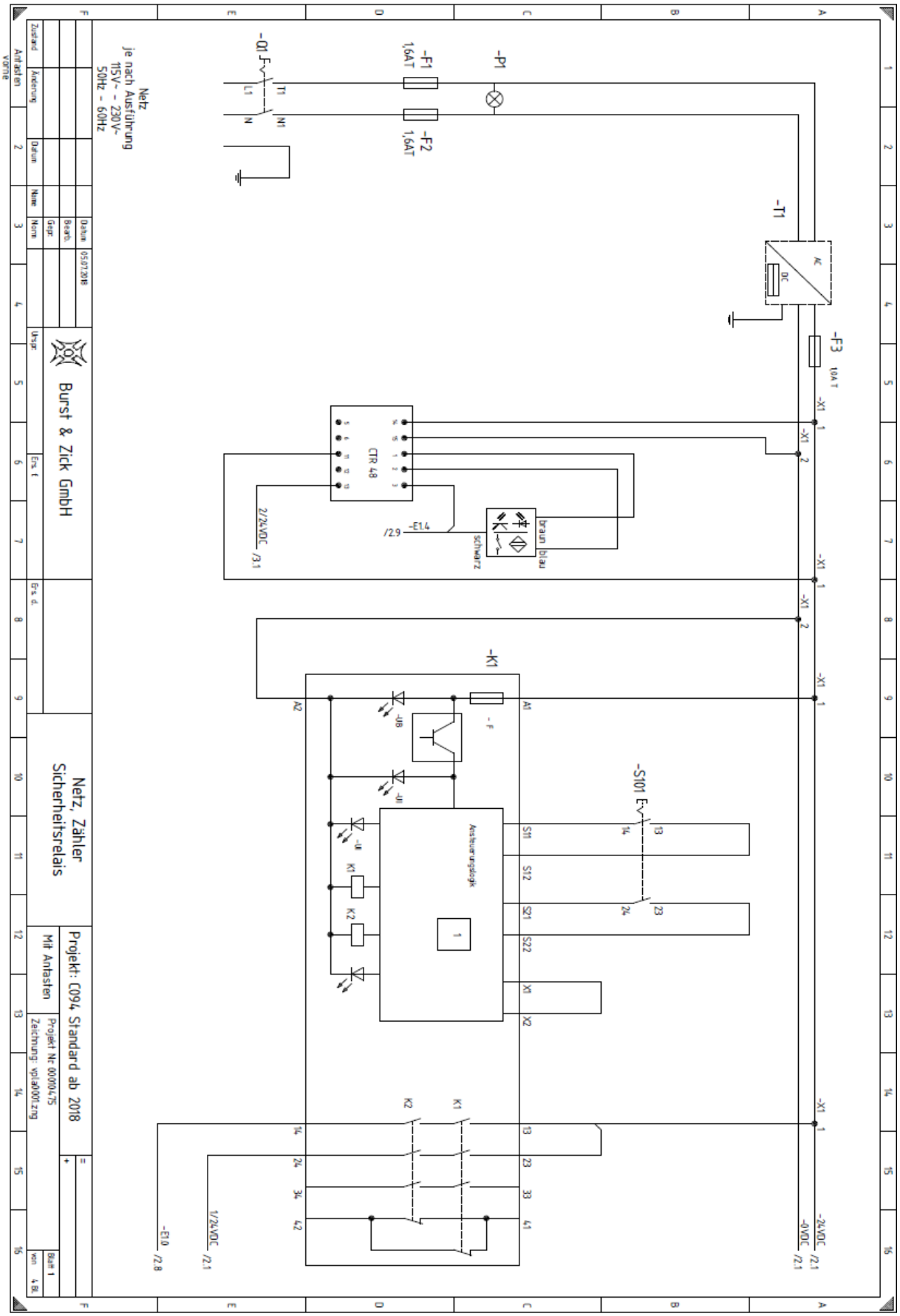
d = daily
w = weekly
m = monthly
y = annualy

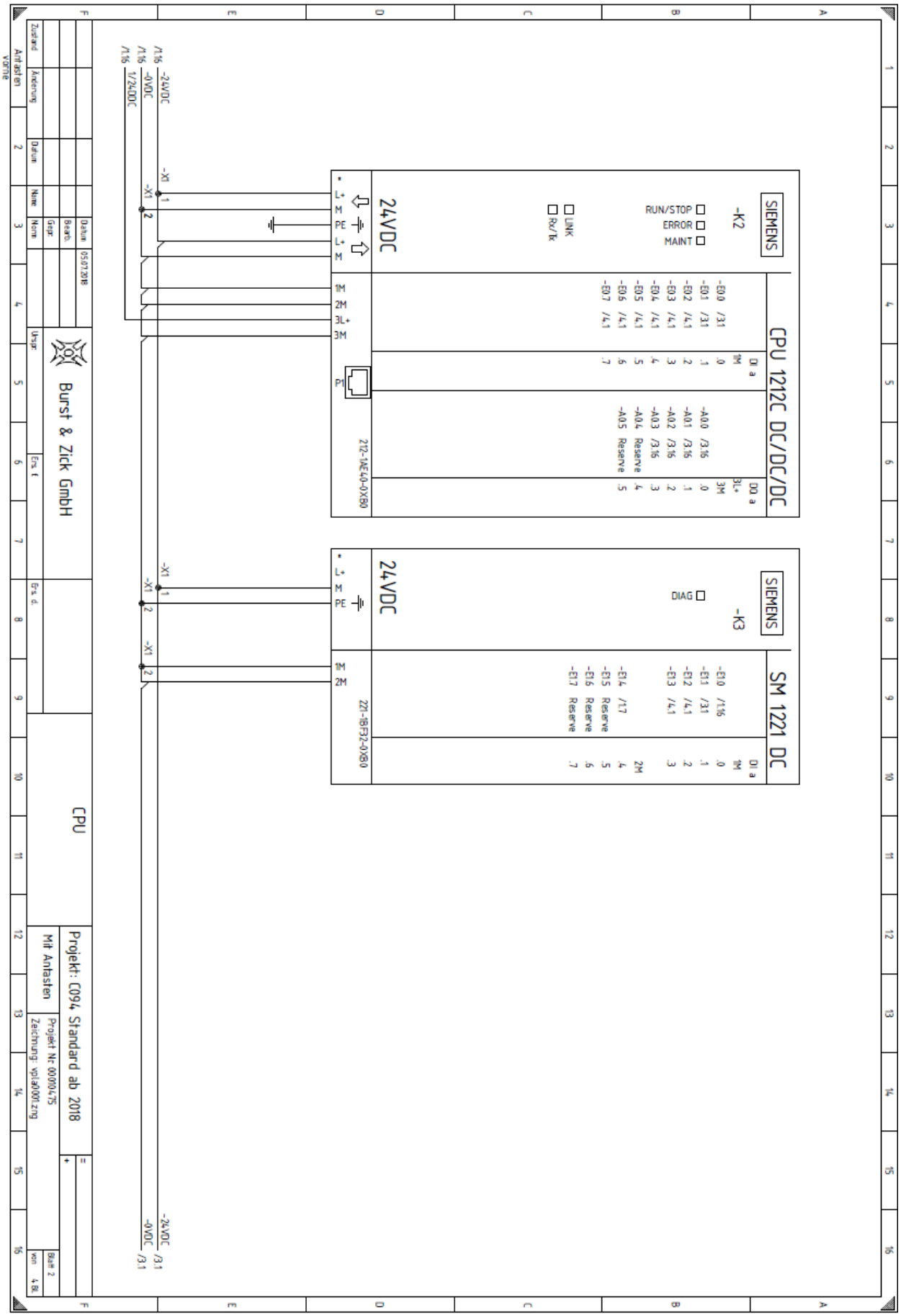
Caution: All maintenance and repair work may only be performed by trained specialists!

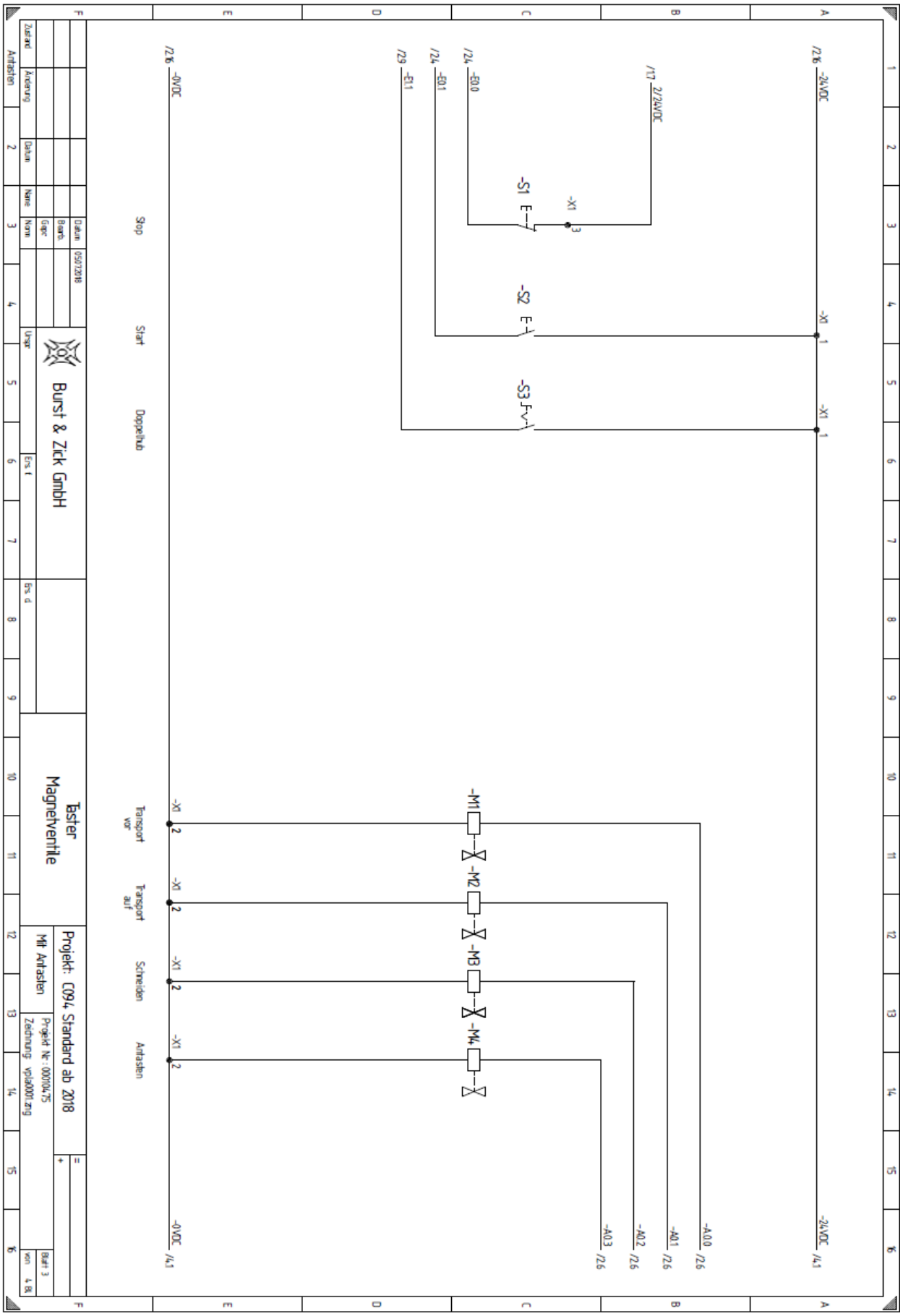
Caution: No grease may be used for lubricating moving and sliding parts. Use thin lubricants only.

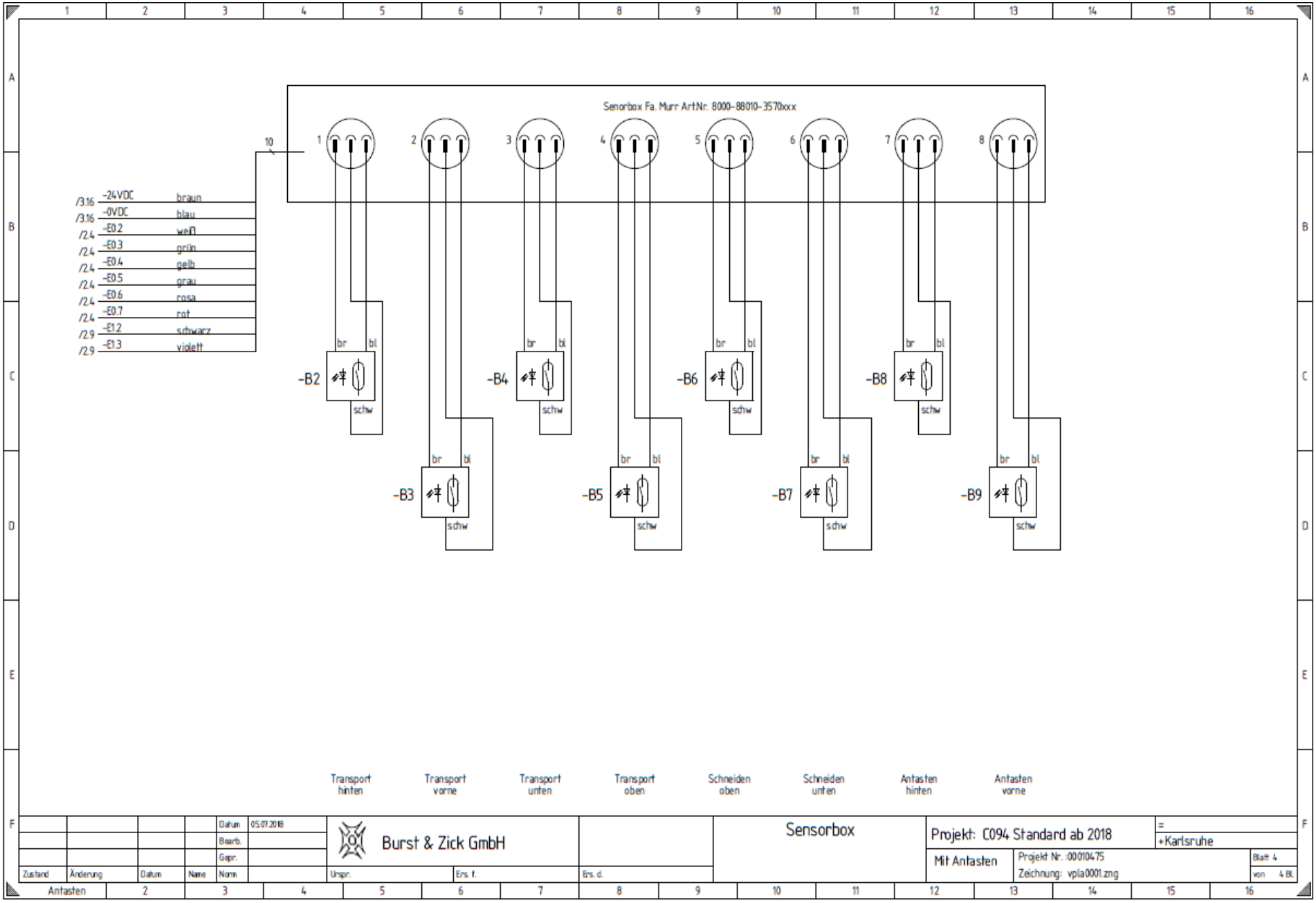
Technical dokuments

1. Circuit diagram C094 touch tool with counter

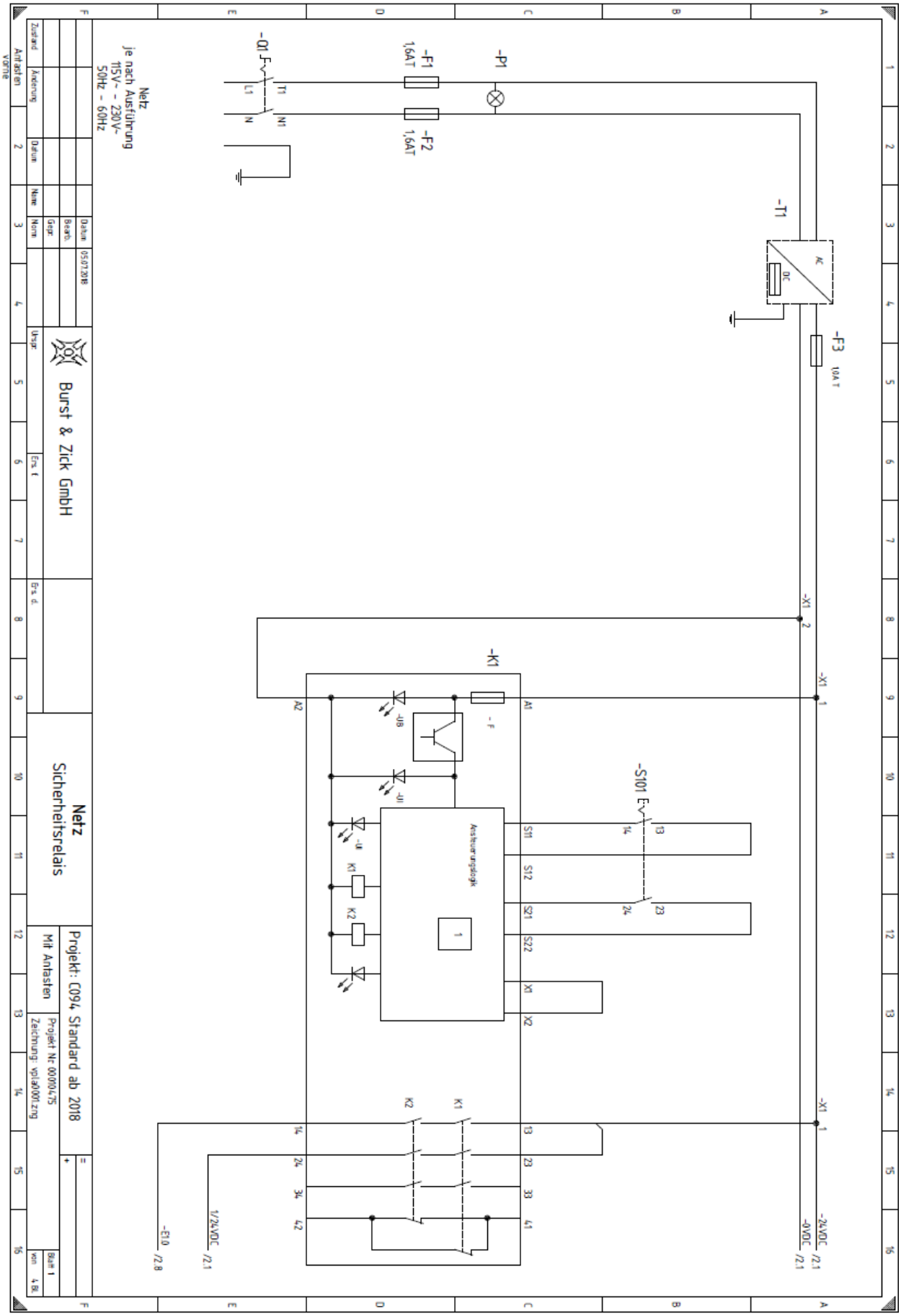


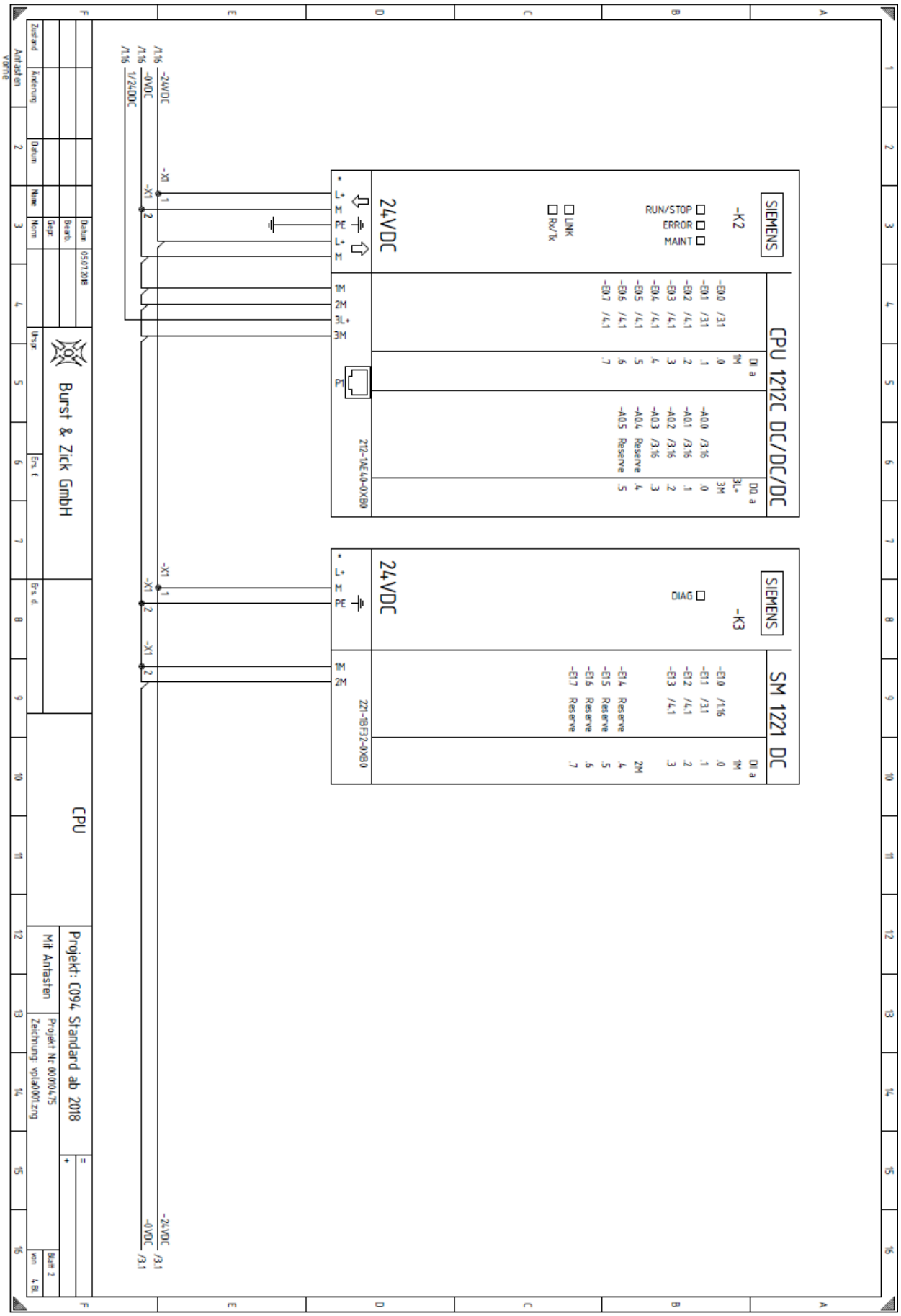

SIEMENS
-K2
CPU 1212C DC/DC/DC
RUN/STOP
ERROR
MAINT
LINK
Rx/Tx
DI a
DO a
24VDC
212-1AE40-0XB0
SIEMENS
-K3
SM 1221 DC
DIAG
DI a
24VDC
221-1BF32-0XB0
-24VDC
-0VDC
1/24DC
Burst & Zick GmbH
CPU
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Mit Antasten
Projekt Nr. 00090475
Zeichnung: vpla000l.zng
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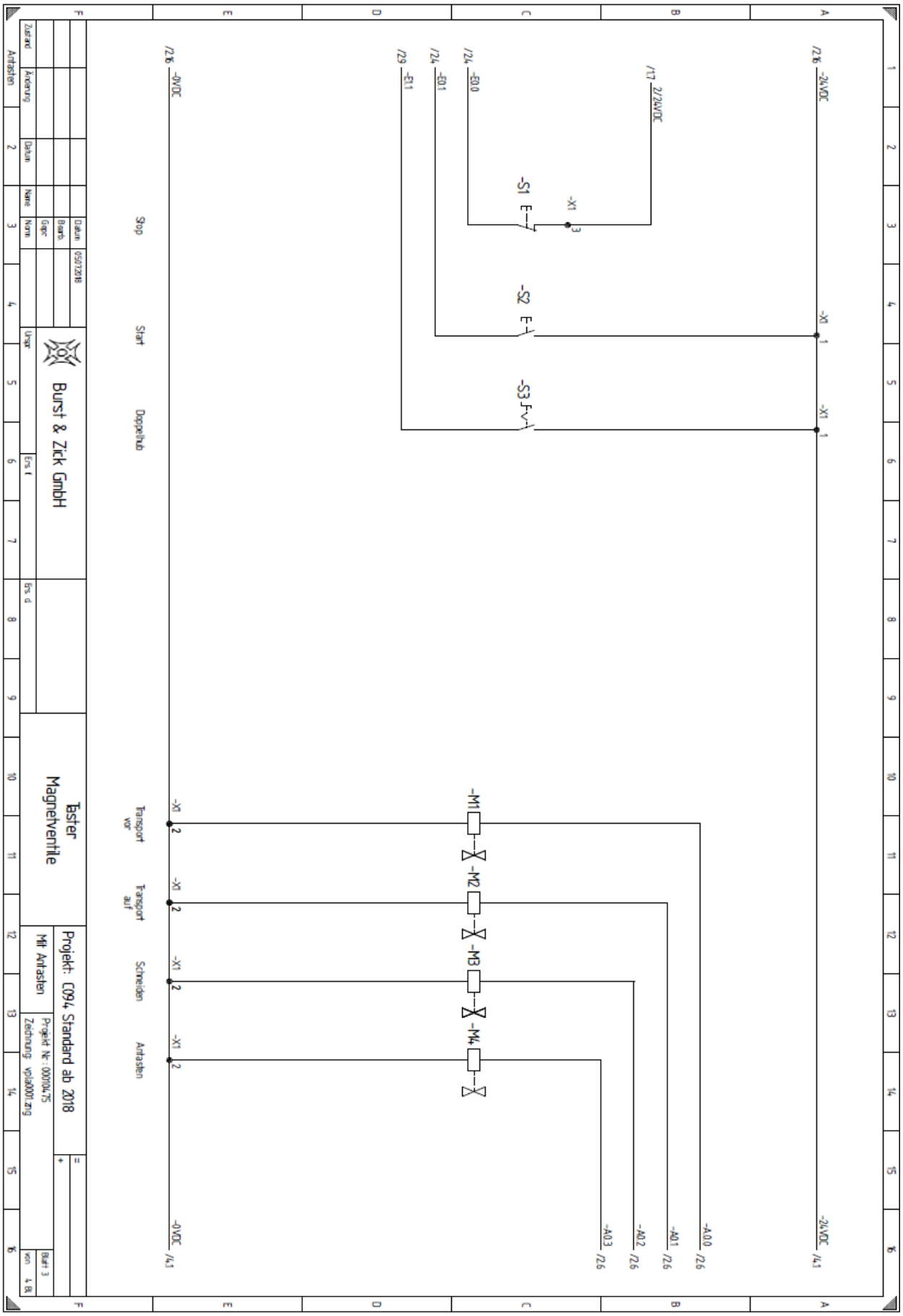

Burst & Zick GmbH
Tester Magnetventile
Projekt: C094 Standard ab 2018
Mit Antasten
Stop
Start
Doppelhub
Transport vor
Transport auf
Schneiden
Antasten
-24VDC
-0VDC
2/24VDC
-S1
-S2
-S3
-M1
-M2
-M3
-M4
-A0.0
-A0.1
-A0.2
-A0.3

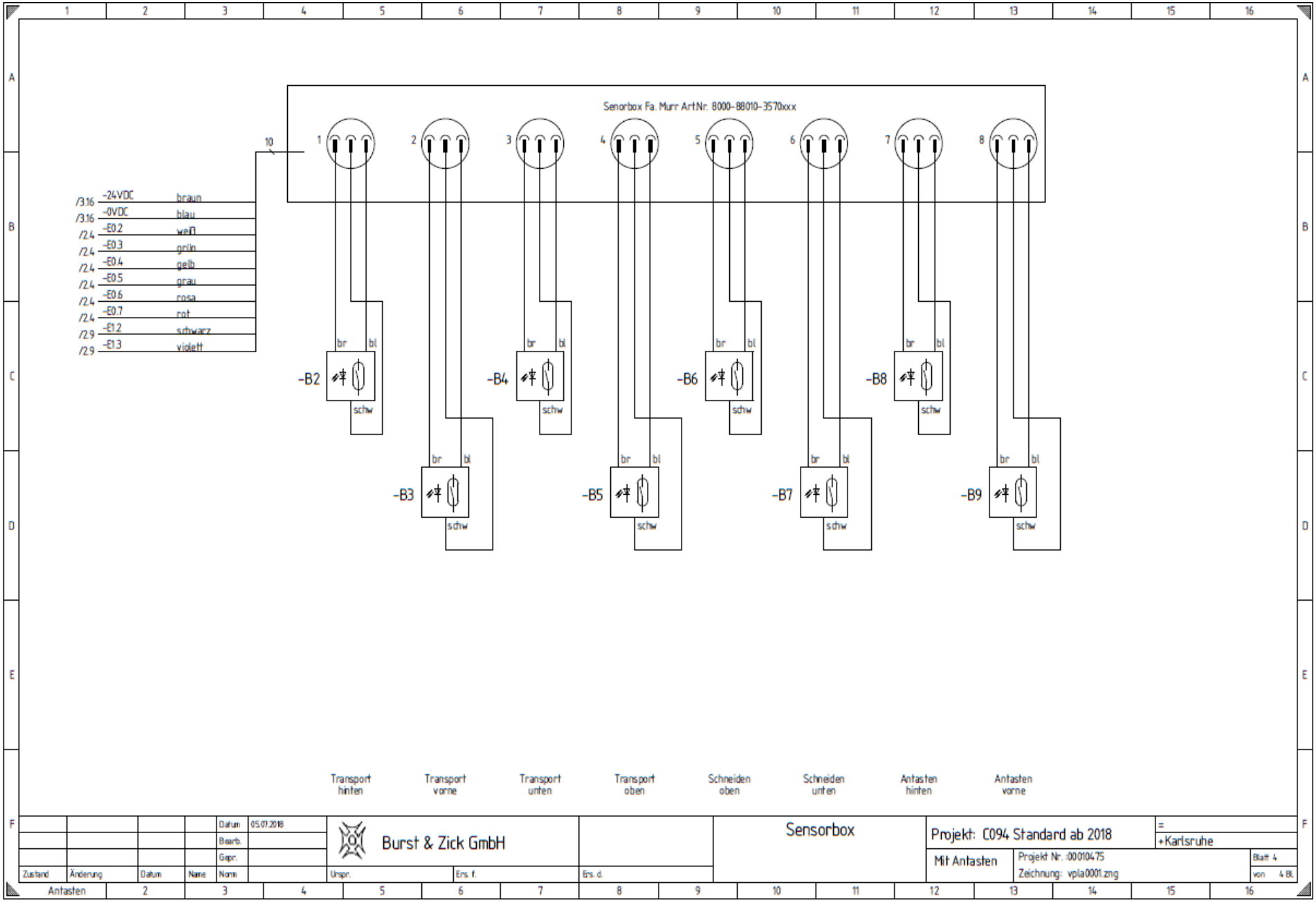

Senorbox Fa. Murr Art.Nr. 8000-88010-3570xxx
10
1
2
3
4
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7
8
/3.16 -24VDC braun
/3.16 -0VDC blau
/2.4 -E0.2 weiß
/2.4 -E0.3 grün
/2.4 -E0.4 gelb
/2.4 -E0.5 grau
/2.4 -E0.6 rosa
/2.4 -E0.7 rot
/2.9 -E1.2 schwarz
/2.9 -E1.3 violett
-B2
-B3
-B4
-B5
-B6
-B7
-B8
-B9
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Transport hinten
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Datum 05.07.2018
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Gepr.
Zustand
Änderung
Datum
Name
Norm
Burst & Zick GmbH
Ursprung
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Sensorbox
Projekt: C094 Standard ab 2018
Mit Antasten
Projekt Nr.: 00010475
Zeichnung: vpla0001.zng
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Antasten

1a. Circuit diagram C094 touch tool without




SIEMENS
CPU 1212C DC/DC/DC
-K2
RUN/STOP
ERROR
MAINT
LINK
Rx/Tx
24VDC
212-1AE40-0XB0
SIEMENS
SM 1221 DC
-K3
DIAG
24VDC
221-1BF32-0XB0
Burst & Zick GmbH
CPU
Projekt: C094 Standard ab 2018
Mit Anhaken
Projekt Nr: 00090475
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-24VDC
-0VDC
1/24DC

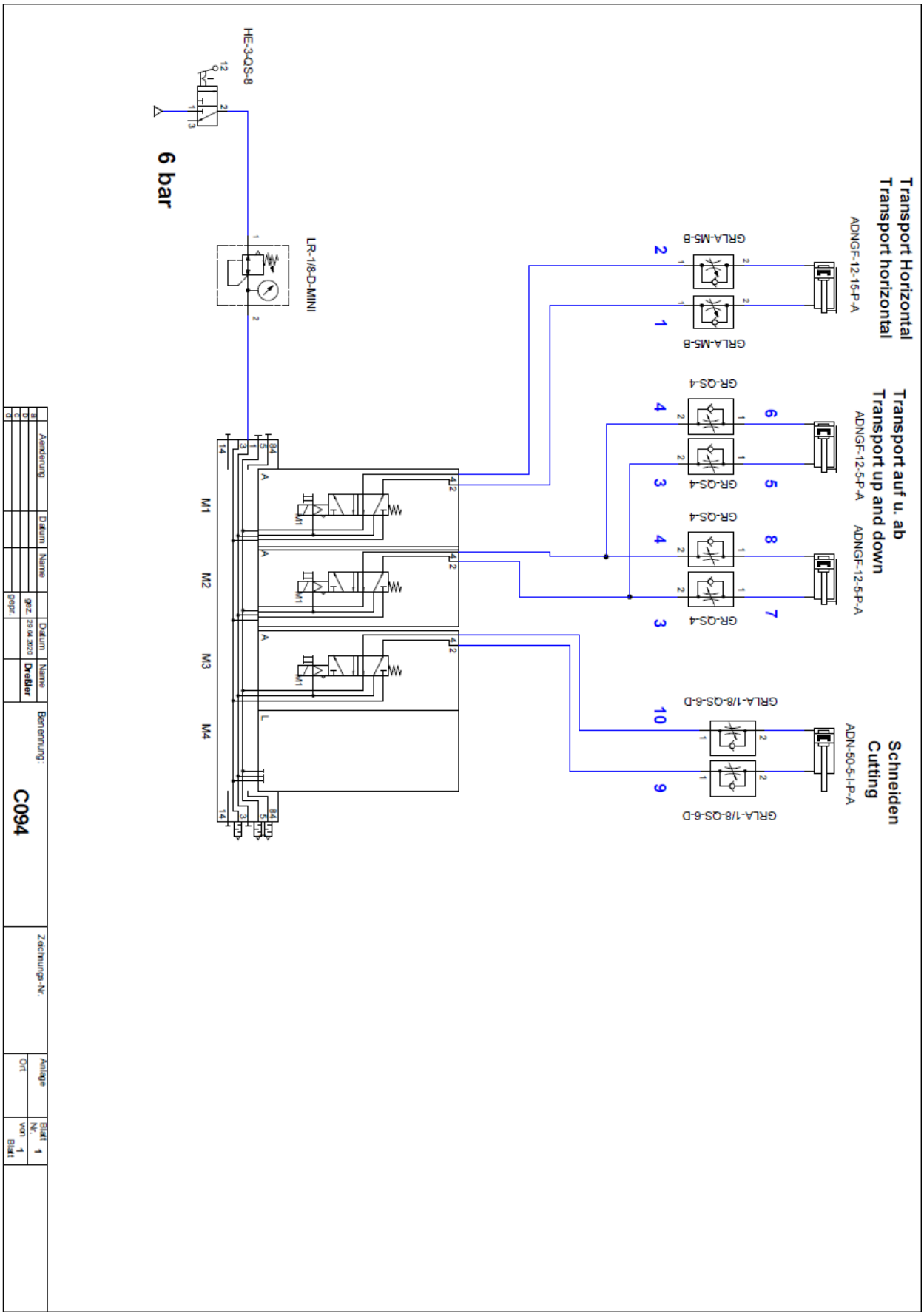

Burst & Zick GmbH
Tester Magnetventile
Projekt: C094 Standard ab 2018
Mit Antasten
Projekt Nr.: 000104.75
Zeichnung: vpls0001.zng
Blatt 3
von 4 Bl.
Stop
Start
Doppelhub
Transport vor
Transport auf
Schneiden
Antasten
-24VDC
-0VDC
2/24VDC
-S1
-S2
-S3
-X1
-M1
-M2
-M3
-M4
-A0.0
-A0.1
-A0.2
-A0.3


Senorbox Fa. Murr Art.Nr. 8000-88010-3570xxx
10
1
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6
7
8
/3.16 -24VDC braun
/3.16 -0VDC blau
/2.4 -E0.2 weiß
/2.4 -E0.3 grün
/2.4 -E0.4 gelb
/2.4 -E0.5 grau
/2.4 -E0.6 rosa
/2.4 -E0.7 rot
/2.9 -E1.2 schwarz
/2.9 -E1.3 violett
-B2
-B3
-B4
-B5
-B6
-B7
-B8
-B9
br
bl
schw
Transport hinten
Transport vorne
Transport unten
Transport oben
Schneiden oben
Schneiden unten
Antasten hinten
Antasten vorne
Datum 05.07.2018
Bearb.
Gepr.
Zustand
Änderung
Datum
Name
Norm
Burst & Zick GmbH
Ursprung
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Projekt: C094 Standard ab 2018
Mit Antasten
Projekt Nr.: 00010475
Zeichnung: vpla0001.zng
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von 4 Bl.
Antasten

2. Piece- and spare parts list electrical parts C094

Name	Type	Number
Q1	Nockenschalter	CA10 T302/D-A004 EG
F1,F2	Fuse holder FPG1 Locking device Fuse 1,6AT	3101.0210 0696.0033 419-993
F3	Fuse holder Fuse 1,0 AT	UK 5 HESI 5x20mm
P1	Lamp socket Lamp 230V Cap	1.60502.1020214 578-367 5.52011.026
P2	Counter	CTR 48 87621111
T1	Power supply 1,3A	DSP 30-24
K1	Safety relais	SRB-E-301MC
S1	Push button red	110001151/0301
S2	Push button green	110001001/0507
S3	Kippschalter	0100.1201
K2	S7-1200 CPU 1212C	6ES7 212-1AE40-0XB0
K3	Signal modul	7ES7 221-1BF32-0XB0
B1	Fork light barrier	OGU-050-G3T3
B2, B3, B7,B8,B9	Proximity switch	SME8-M-DS-24V-K0,3-M8D
B4	Proximity switch	SMT-8G-PS-24V-E-0,3-M8D
B5	Proximity switch	SME-8M-A-PS-24V-E-0,3-M8D
X1	Terminalblocks	WDK 2,5
X2	Sensor pad	8000-88010-3570-300
M1, M2, M3, M4	Valve cluster	VTUG-10-SH3-S1T-G-18-U-M5S-2A+W3
S 101	Safety switch Actuator B2	AZ 16-02 zvrk AZ 15/16

3. Pneumatic layout with types



4. Certification for protective disks

Bescheinigung für Schutzscheiben ESLON-DC PVC 401 AS nach EN 10204

Bescheinigung nach EN 10204 (Werksbescheinigung)
Certification of Compliance with the Order

Best.: 820700

Wir bescheinigen die Übereinstimmung unserer Lieferungen mit den Lieferbedingungen / Bestellungen der	We certifies the compliance of the delivered parts with the delivery standards / purchase order of

Theodor Schmid GmbH
Glasgroßhandlung
An der Roßweid 2
76229 Karlsruhe

Bescheinigende Firma	Certifying Company

Sekisui Chemical GmbH
Cantadorstr. 3
40211 Düsseldorf

Bemerkungen	Remarks

ESLON-DC PVC 401AS
antistatisch, klar, transparent
1000x2000x5mm
Oberflächenwiderstand
$3 \times 10^7 \sim 5 \times 10^7\ \Omega/sq$

SEKISUI CHEMICAL GMBH
Cantadorstr. 3
40211 Düsseldorf

11.04.2008

Datum	Unterschrift / Stempel	Date	Signature / Stamp

Spare parts – catalogue

Machine CO94

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Housing Tz1

Stroke movement /Transport Tz2

Tool actuation Tz3

Transport Tz4

Tool pusher Tz5

Machine housing Tz9

Cutting tool Tz10

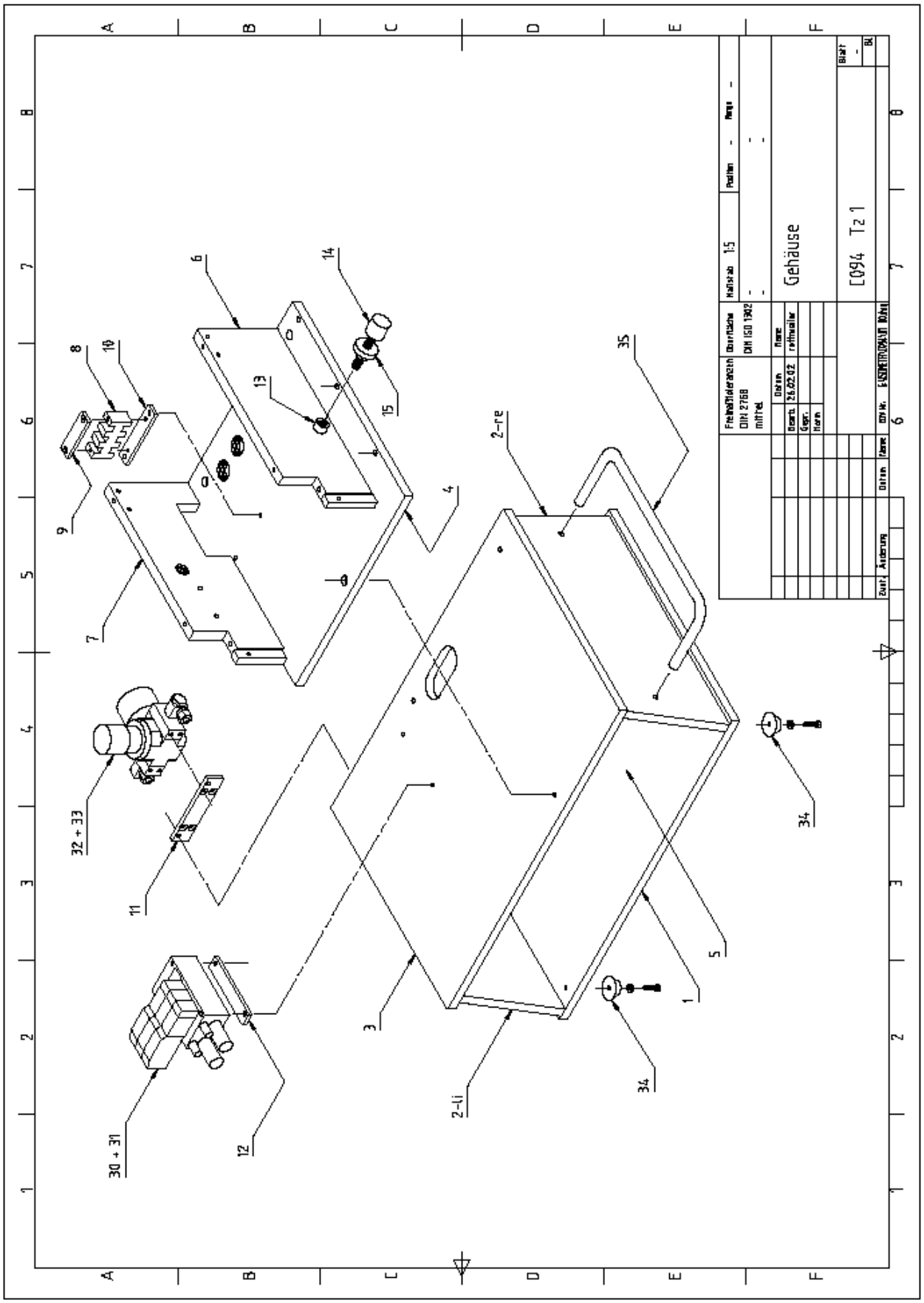
Protection cover Tz11

Recommended spare parts

Assembly: Tz 1 Housing

Item	Qty	Drawing no.	Description	Notes
1	1	Tz 1 T. 1	Base plate	
2	2	Tz 1 T. 2	Side plate	1x left, 1x right *)
3	1	Tz 1 T. 3	Carrier plate	
4	1	Tz 1 T. 4	Carrier plate	
5	1	Tz 1 T. 5	Back plate	
6	1	Tz 1 T. 6	Side plate, right	
7	1	Tz 1 T. 7	Side plate right	
8	1	Tz 1 T. 8	Holder	
9	1	Tz 1 T. 9	Cover rail	
10	1	Tz 1 T. 10	Rail	
11	1	Tz 1 T. 11	Mounting plate	
12	1	Tz 1 T. 12	Spacer rail	
13	1	Tz 1 T. 13	Threaded bushung	
14	1	Tz 1 T. 14	Spindle	
15	1	Tz 1 T. 15	Coenter nut (Knurled nut)	
30	1		Valve cluster	
31	3		Magnet valve	
32	1		Pressure regulator LR-1/8-MINI-D	
33	1		Manometer MA-40-16-1/8	
34	4		Rubber foot	
35	2		Handle GN 425-235 CR	

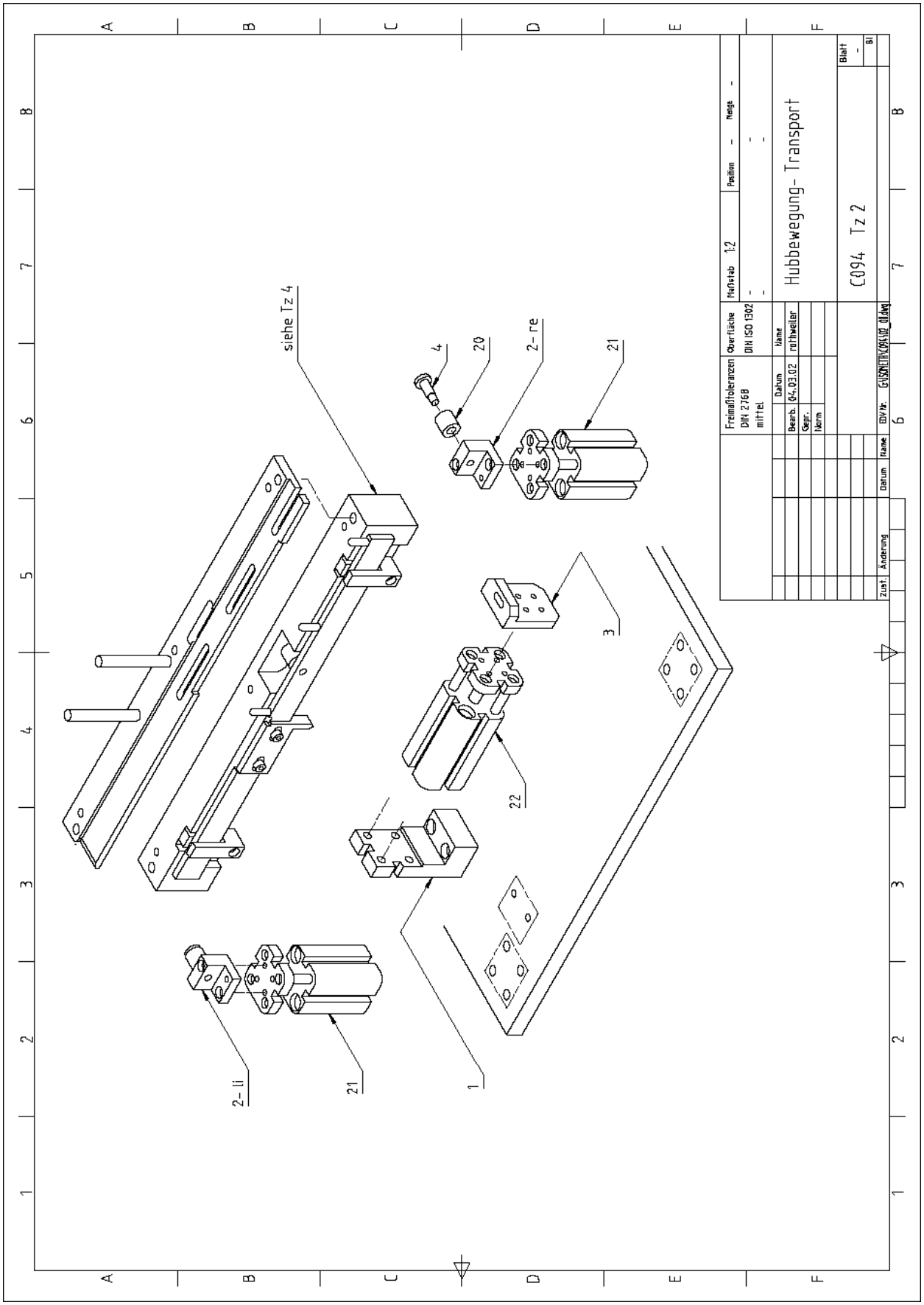
Note *) = please specify when ordering!


Gehäuse
E094 Tz1
Maßstab 1:5
Positionen -
Maße -
Datum
Name
Gezeichnet 26.02.02 rathmaier
Geprüft
Norm
Freiheitsgrade DIN 2768 mittel
Oberfläche DIN ISO 1302
Zust. Änderung
Datum
Name
Blatt -
Bl.
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30 + 31
32 + 33
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Assembly: Tz 2 Stroke movement - transport

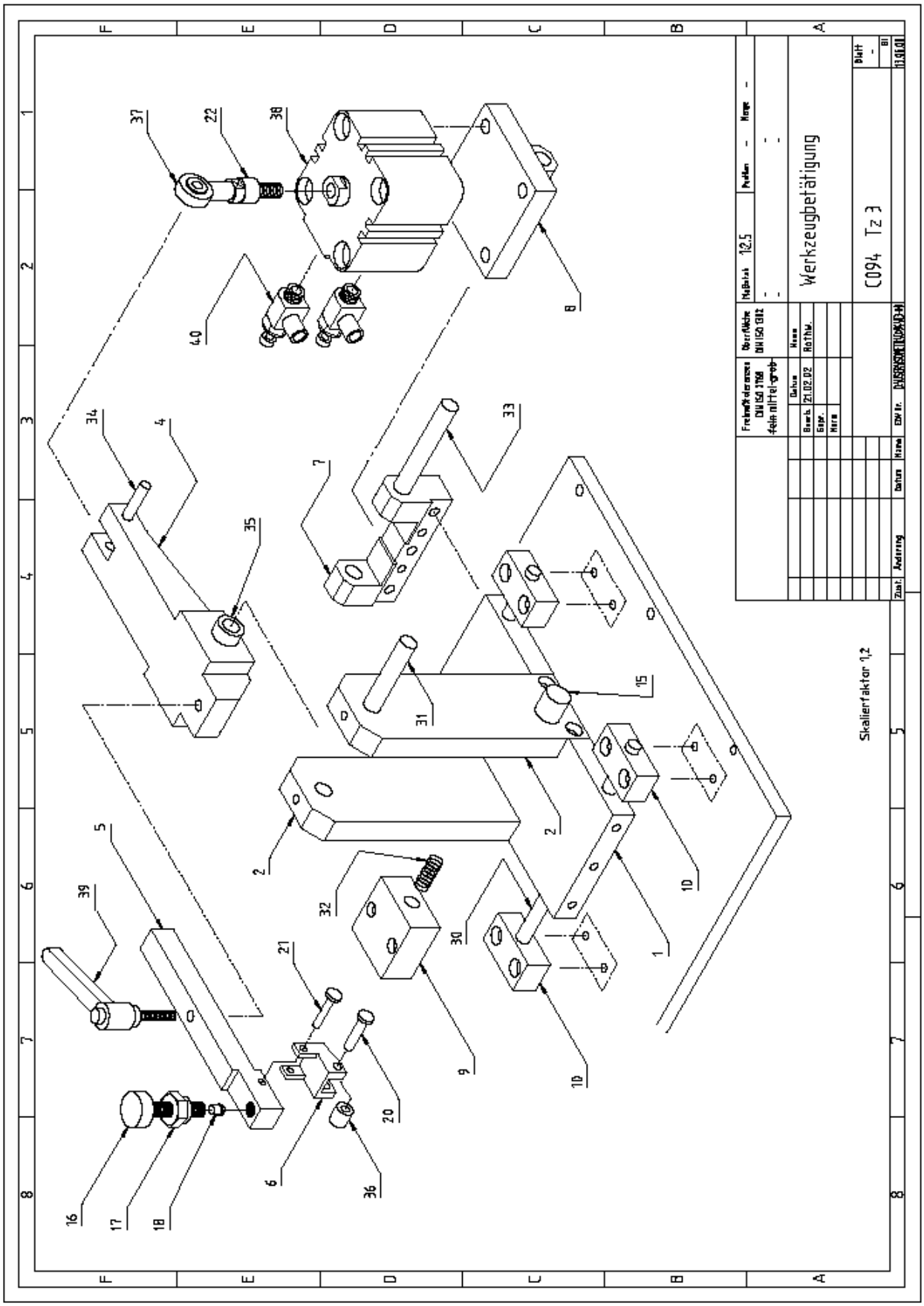
Item	Qty	Drawing no.	Description	Notes
1	1	Tz 2 T. 1	Cylinder holder	
2	2	Tz 2 T. 2	Transport lifter	1x left, 1x right *)
3	1	Tz 2 T. 3	Slide bracket	
4	2	Tz 2 T. 4	Bolt	
20	2		Needle bearing NK 5/10	
21	2		Compact cylinder ADNGF-12-5-P-A	
22	1		Compact cylinder ADNGF-12-15-P-A	

Note *) = please specify when ordering!


siehe Tz 4
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Hubbewegung- Transport
C094 Tz 2

Assembly: Tz 3 Tool actuation

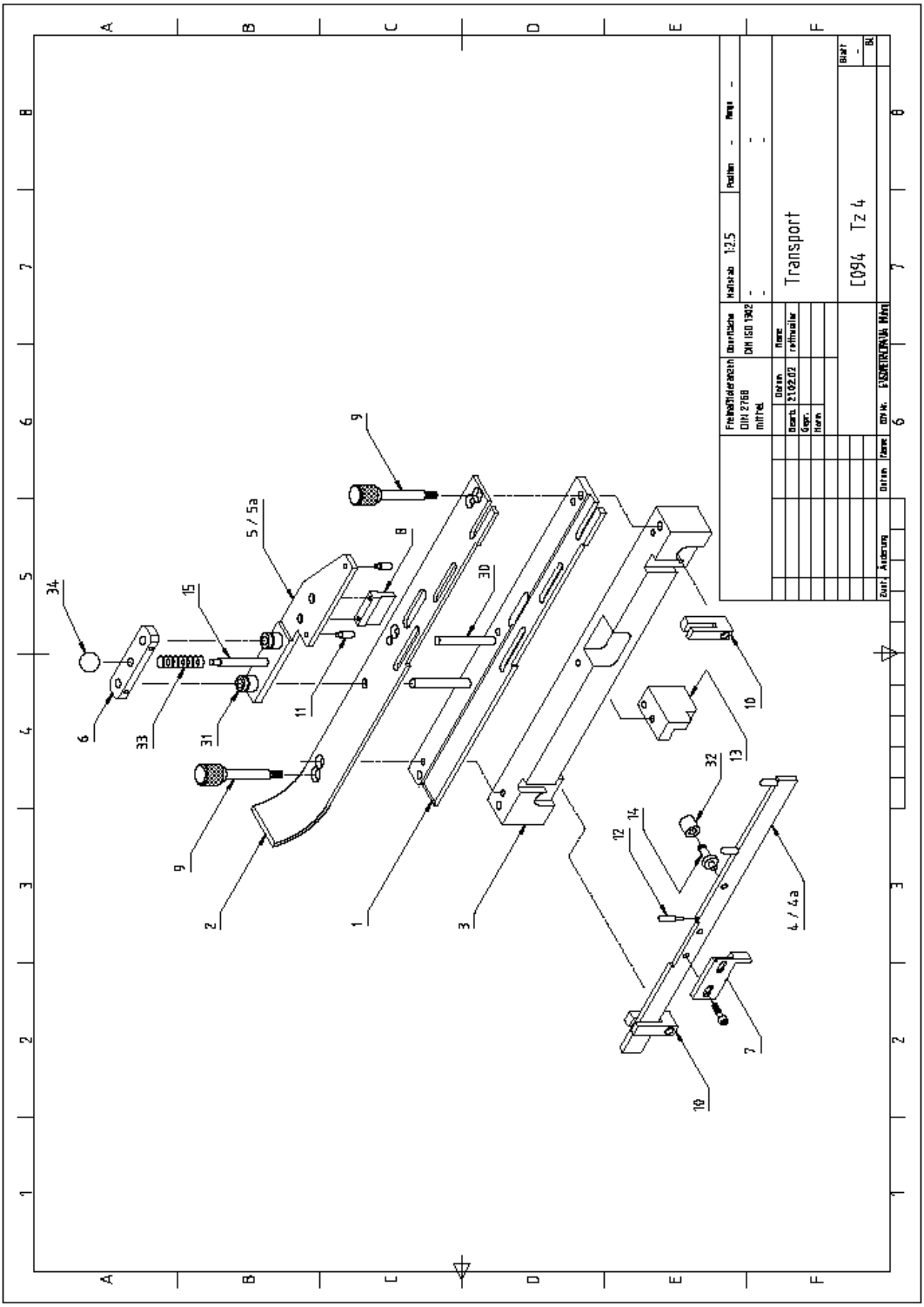
Item	Qty	Drawing no.	Description	Notes
1	1	Tz 3 T. 1	Bearing plate	
2	2	Tz 3 T. 2	Bracket	
4	1	Tz 3 T. 4	Level	
5	1	Tz 3 T. 5	Levell	
6	1	Tz 3 T. 6	Support Bracket	
7	1	Tz 3 T. 7	Pivot	
8	1	Tz 3 T. 8	Support plate	
9	2	Tz 3 T. 9	Block for pressure spring	
10	4	Tz 3 T. 10	Block	
15	1	Tz 3 T. 15	Bolt	
16	1	Tz 3 T. 16	Adjustment screw	
17	1	Tz 3 T. 17	Nut	
18	1	Tz 3 T. 18	Cap	
20	1	Tz 3 T. 20	Pin	
21	1	Tz 3 T. 21	Pin	
22	1	Tz 3 T. 22	Pin	
30	4		Shaft hardened ∅8h6 x 55	
31	1		Shaft hardened ∅10h6 x 80	
32	1		Pressure spring D-166 D	
34	1		Shaft hardened ∅6h6 x 35	
35	2		SM- Bushing ∅10 x ∅16 x 20	
36	1		Needle bearing NK 5/10	
37	1		Piston rod attachments SGS-M6	
38	1		Compact cylinder ADN-50-5-I-P-A	
39	1		Locking lever GN-100-14-M6x 32 sw	
40	2		One-way flow control valves GRLA-1/8-QS-6D	


Werkzeugbetätigung
C094 Tz 3
Skalierfaktor 1,2

Assembly: Tz 4 Transport

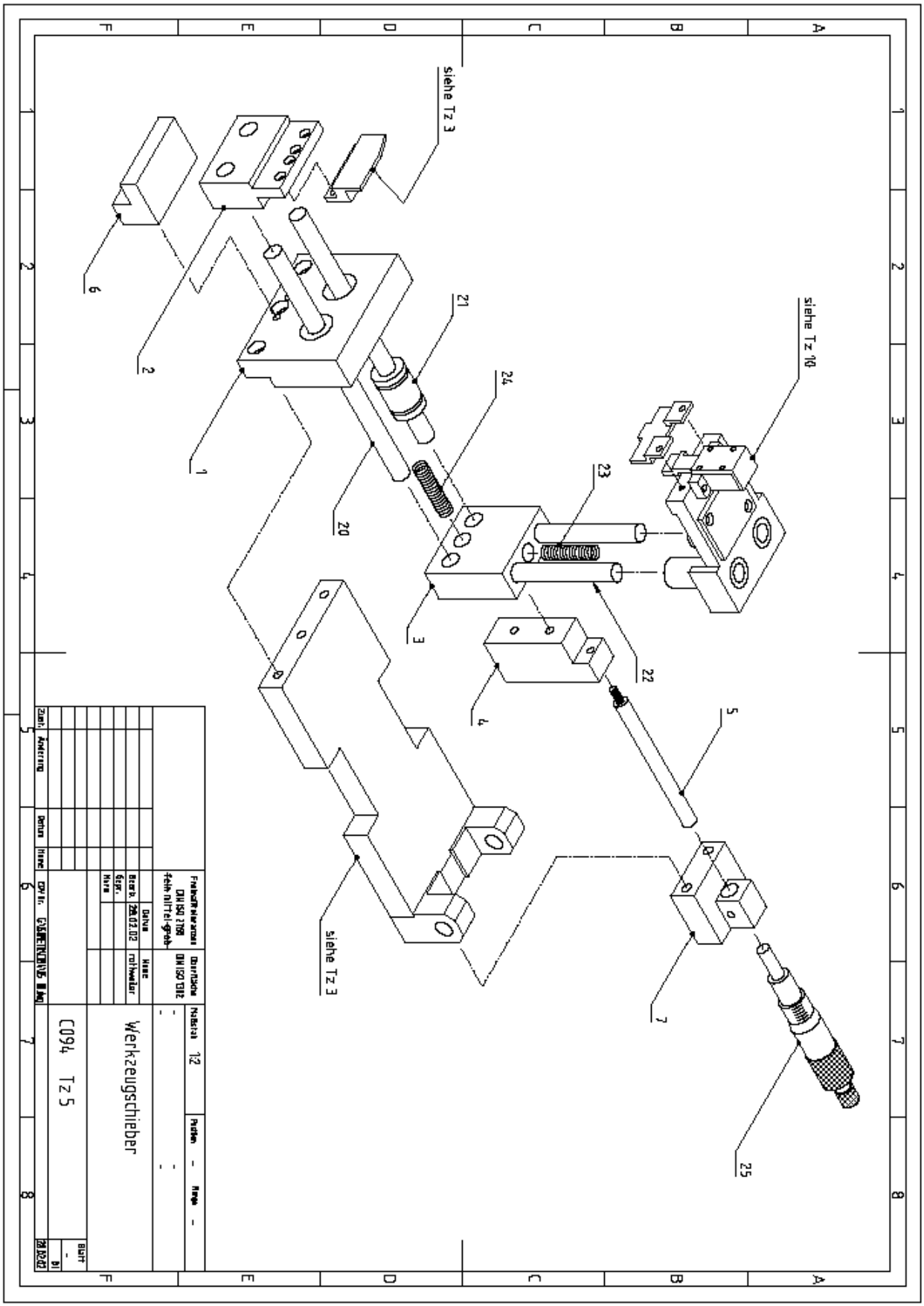
Item	Qty	Drawing no.	Description	Notes
1	1	Tz 4 T. 1	Belt guide	
2	1	Tz 4 T. 2	Guide	
3	1	Tz 4 T. 3	Indexing beam	
4	1	Tz 4 T. 4	Rail	Pitch 12,7 1)
4a	1	Tz 4 T. 4a	Rail	Pitch 15 1)
5	1	Tz 4 T. 5	Tape centering	Pitch 12,7 1)
5a	1	Tz 4 T. 5a	Tape centering	Pitch 15 1)
6	1	Tz 4 T. 6	Plate	
7	1	Tz 4 T. 7	Latch	
8	1	Tz 4 T. 8	Rail	
9	2	Tz 4 T. 9	Collar pin	
10	2	Tz 4 T. 10	Bearing jewel	
11	2	Tz 4 T. 11	Cam	
12	3	Tz 4 T. 12	Cam	
13	1	Tz 4 T. 13	Stop	Only pitch 12,7
14	1	Tz 4 T. 14	Bearing pin	
15	1	Tz 4 T. 15	Bolt	
30	2		Dowel pin ∅6m6 x 70 DIN 6325	
31	2		Recirculating ball bushing N-6V	
32	1		Needle bearing NK 5/10	
33	1		Pressure spring	
34	1		Ball knob M4 DIN 319	

1) Optionally = please specify when ordering!


Transport
C094 Tz 4
Maßstab 1:2,5
Oberfläche DIN ISO 1302
Freiheitstoleranzen DIN 2768 mittel
Datum 21.02.02
Name reifmueller
Blatt - Bl.
Änderung
Datum
Name
Norm
Zust.
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4 / 4a
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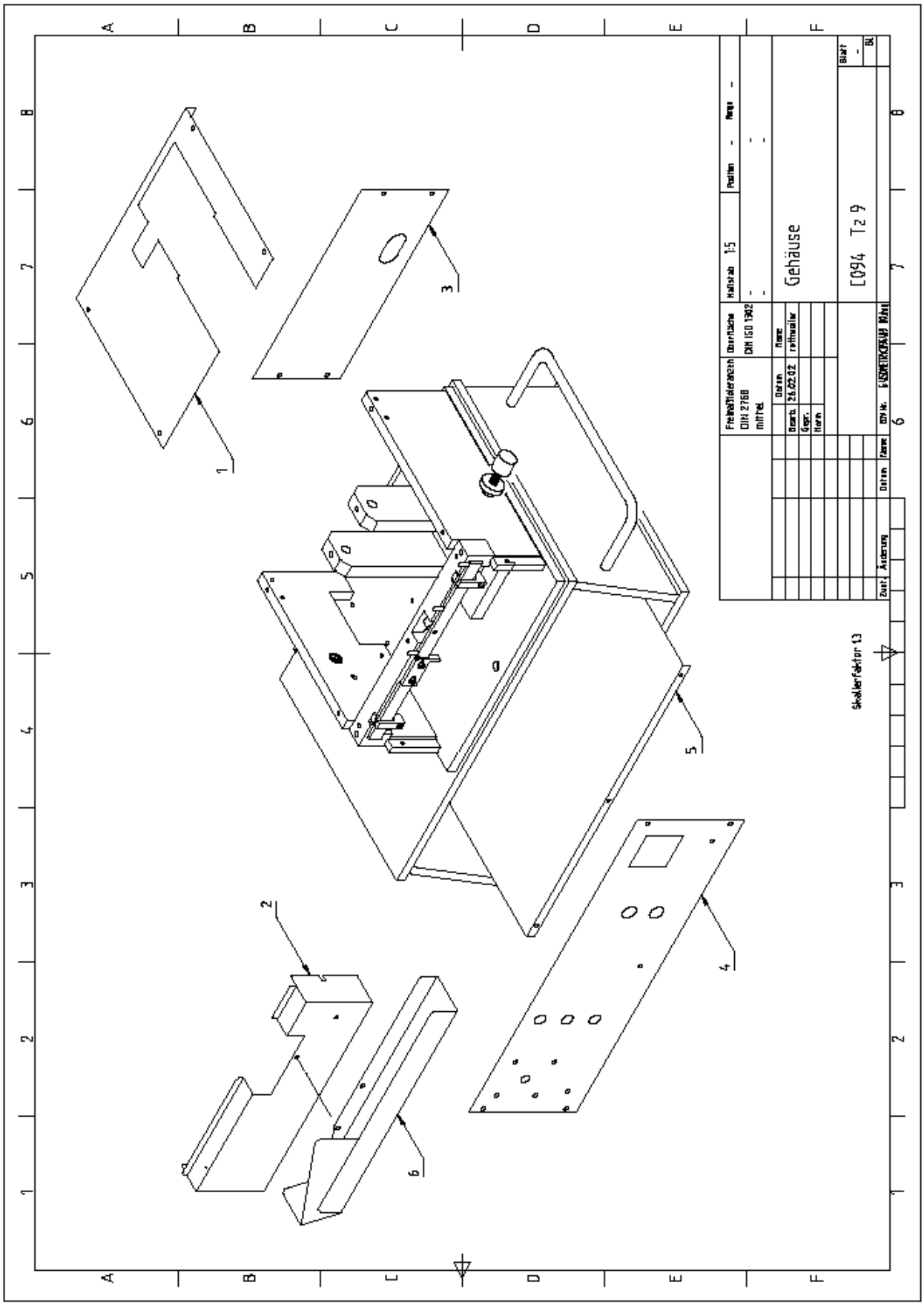
Assembly: Tz 5 Tool pusher

Item	Qty	Drawing no.	Description	Notes
1	1	Tz 5 T. 1	Tool supprt block	
2	1	Tz 5 T. 2	Tool holder	
3	1	Tz 5 T. 3	Guide	
4	1	Tz 5 T. 4	Back support	
5	1	Tz 5 T. 5	Shaft	
6	1	Tz 5 T. 6	Angle bracket	
20	2		Shaft hardened ∅10h6 x 78	
21	2		Recirculating ball bushing N-10V	
22	2		Shaft hardened ∅10h6 x 88	
23	1		Pressure spring D-199	
24	1		Pressure spring	
25	1		Micrometer screw	
26	1		Compact cylinder ADNGF-20-5-I-P-A	
27	1		Pressure spring D-115H-11	


siehe Tz 3
siehe Tz 10
siehe Tz 3
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Werkzeugschieber
C094 Tz 5

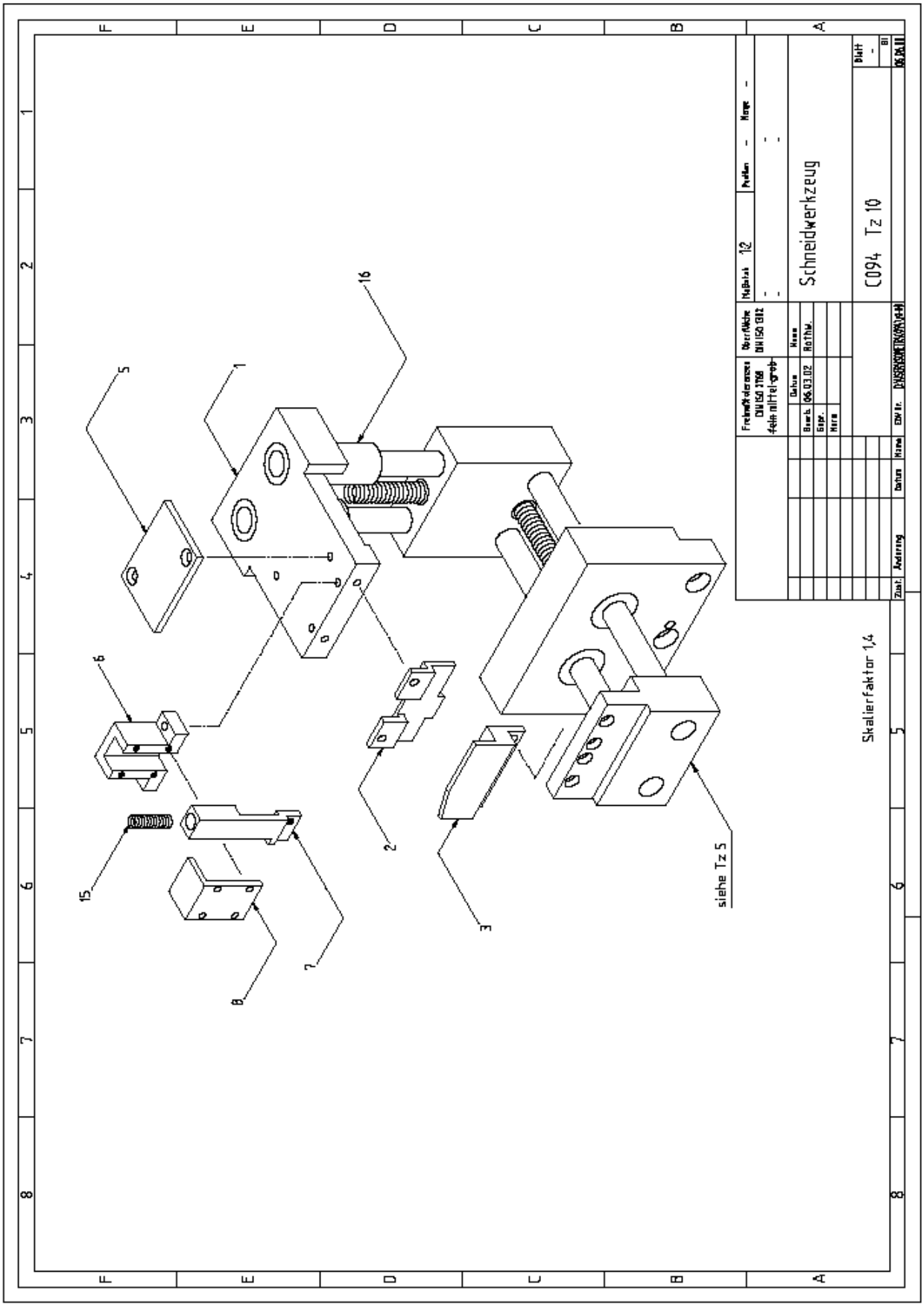
Assembly: Tz 9 Machine housing

Item	Qty	Drawing no.	Description	Notes
1	1	Tz 9 T. 1	Top cover	
2	1	Tz 9 T. 2	Front cover	
3	1	Tz 9 T. 3	Cover	
4	1	Tz 9 T. 4	Front panel	
5	1	Tz 9 T. 5	Chassis	
6	1	Tz 9 T. 6	Slide	
8	1	Tz 9 T. 8	Component slide	
9	1	Tz 9 T. 9	Inflow sheet	


Gehäuse
C094 T2 9
Maßstab 1:5
Positionen
Menge
Oberfläche
DIN ISO 1302
Name
reithmaier
Datum
26.02.02
Allgemeintoleranzen
DIN 2768
mittel
Gepr.
Norm
Änderung
Datum
Name
Blatt
Skalierfaktor 13

Assembly: Tz 10 Cutting tool

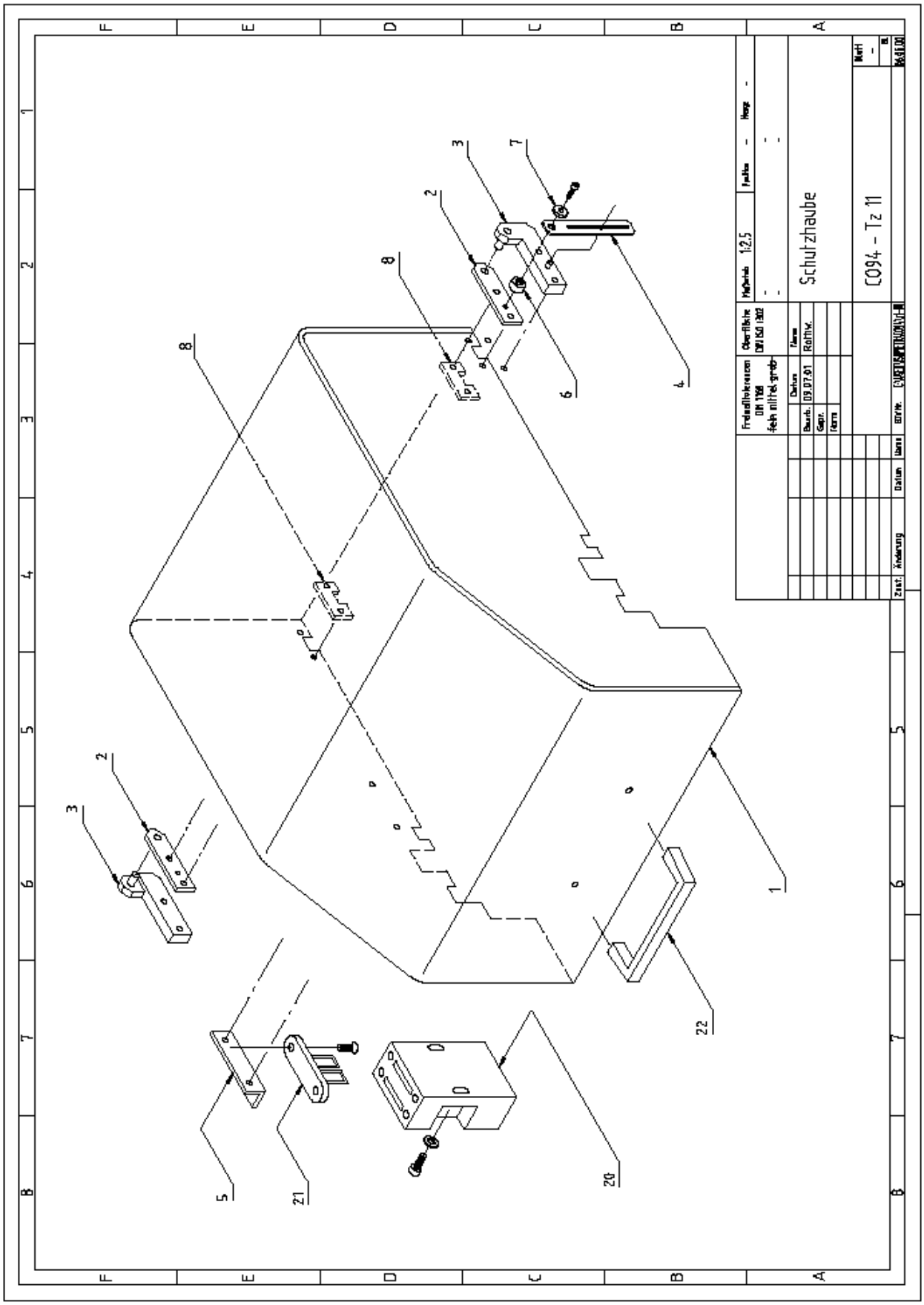
Item	Qty	Drawing no.	Description	Notes
1	1	Tz 10 T. 1	Tooll guide	
2	1	Tz 10 T. 2	Upper cutting tool	
3	1	Tz 10 T. 3	Lower cutting tool	
5	1	Tz 10 T. 5	Plate	
6	1	Tz 10 T. 6	Casing for clamping die	
7	1	Tz 10 T. 7	Clamping die	
8	1	Tz 10 T. 8	Cover for clamping die	
15	1		Pressure spring D-072 A	
16	2		Bearing bushing ∅10 x ∅16 x 43	


Schneidwerkzeug
C094 Tz 10
Skalierfaktor 1,4
siehe Tz 5

Assembly: Tz 11 - Protection cover

Item	Qty	Drawing no.	Description	Notes
1	1	Tz 11 T. 1	Schutzhaube	
2	2	Tz 11 T. 2	Hinge part	
3	2	Tz 11 T. 3	Hinge part	1x left, 1x right *)
4	1	Tz 11 T. 4	Hood suppoer latch	
5	1	Tz 11 T. 5	Bracket	
6	1	Tz 11 T. 6	Bush	
7	1	Tz 11 T. 7	Distance washer	
8	1	Tz 11 T. 8	Threaded plate	
20	1		Safety switch, AZ 16 zvrk	
21	1		Bracket for Safety Switch	
22	1		Handle, 10501-003 154	

Note *) = please specify when ordering!


Schutzhaube
C094 - Tz 11
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Recommended spare parts

Item	Qty	Drawing no.
1	Tz 2 T. 4	Bolt
1	Tz 4 T. 4 (4a)	Rail 12,7 or 15
1	Tz 4 T. 5 (5a)	Rail 12,7 or 15
1	Tz 4 T. 7	Plate
2	Tz 4 T. 10	Bearing jewel
2	Tz 4 T. 11	Cam
3	Tz 4 T. 12	Cam
1	Tz 4 T. 14	Bearing pin
2	Tz 4 T. 31	Recirculating ball bushing N-6V
1	Tz 4 T. .32	Needle bearing NK 5/10
1	Tz 4 T. .33	Pressure spring
1	Tz 5 T .23	Sring
2	Tz 5 T. 21	Recirculating ball bushing
1	Tz 5 T. 24	Spring
1	Tz 10 T. 2	Upper cutting tool
1	Tz 10 T. 3	Lower cutting tool
1	Tz 10 T. 7	Clamping die
1	Tz 10 T. 5	Pressure spring D-072 A
2	Tz 10 T.16	Bearing bushing ∅10 x ∅16 x 43