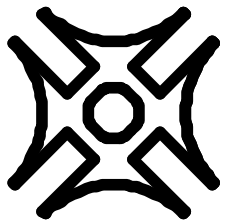
Cutting, forming and bending machine

for radial taped components

Type C092

Translation of the original operating manual



Burst & Zick GmbH

Retention of Title

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It may not be duplicated or made accessible to third parties without our consent.

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:	3.9
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Author:	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

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/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, forming and bending machine with touch tool feature**
Machine type:	**C 092**
Machine number:	
Applicable directives:	EC Machinery Directive (2006/42/EG appendix II A) EC Low Voltage Directive (2014/35/EG); 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 16.12.2021

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 C092 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 Type C 092 was specially designed for cutting and bending of radial taped components like capacitors or diodes. In the first station the component will be moulded. In the second station the component will be cut. It is also possible to mould and to cut the component with a follow-on tool in the second station.The special feature of this machine is, that before the components will be moulded or cut out of the tape, the component body will be touched by special tool to eliminate the tape tolerances. This procedure guarantees an accuracy of the cut components of +/- 0,1 mm. This function can also be switched off.

The feeding of the components is done exclusively via tape rolls. For this purpose a combined receptacle for component-rolls or ammopack are available. 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 processed components are stored in a container as a bulk material.

Options:

- De-reeler for all common tape rolls
- Electronical pre-select and quantity counter, which switches the automat off after having achieved the pre-set quantity.
- Tape chopper unit

Operational Sequence

The component is transported to the first station. In the first station the component is touched and moulded. In the second station the component is touched. Than the clamping die clamps the component and the cutting tool cuts the component .Both tool stations are working simultaneously. The finished component falls through a chute into a bulk container.

It is also possible depending on the shape to realize the shape and cutting in the second station.

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

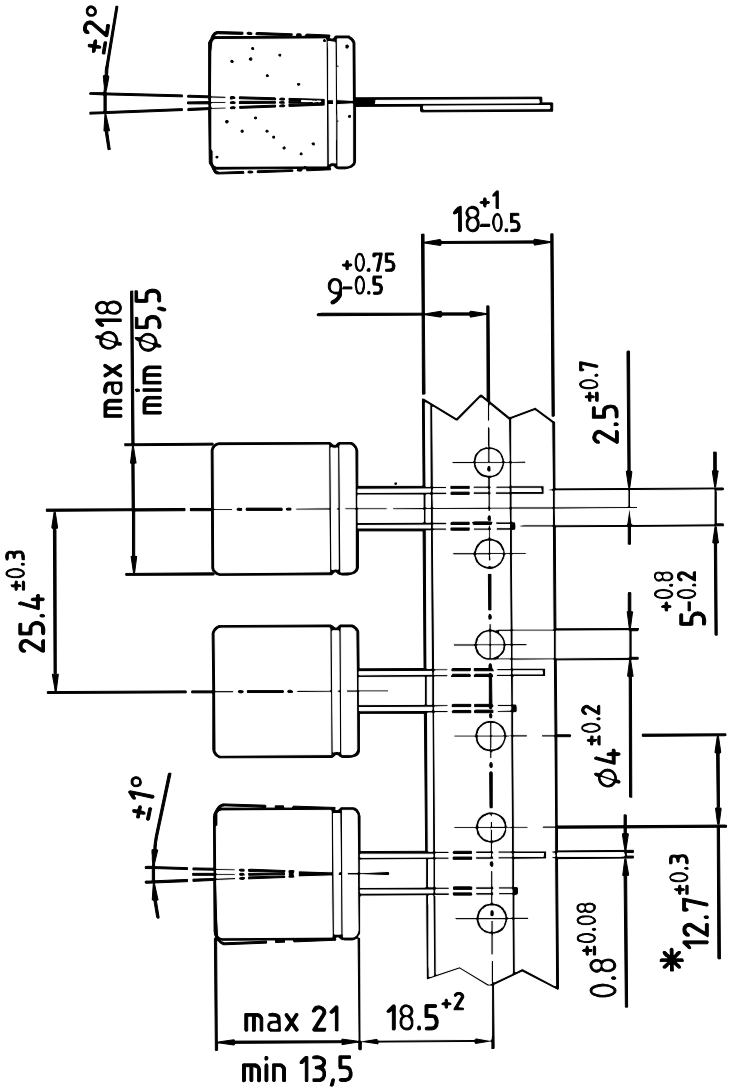


Figure 1
IEC Form Tolerances

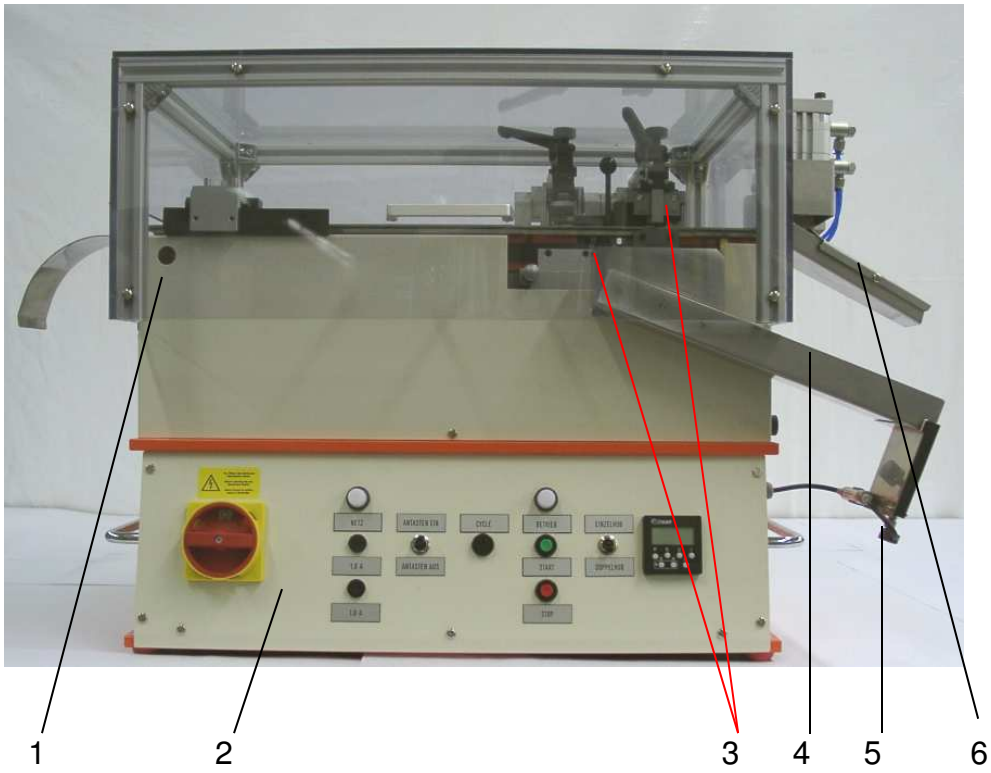


Figure 2
Cutting and bending machine C092

1. Mounting Drilling (Exchange of the Tape Feeding)
2. Operating Panel
3. Tools
4. Component chute
5. Fork light barrier
6. Toolings
7. Tap chopper unit (optional)

4. Technical data

Dimensions	Widht: Depth: Height:	650 mm (without de-reeler) 450 mm 500 mm
Weight:		app. 52 kg
Cycle time:	With touch tool	App. 4200 pcs. p.h.
	Without touch tool	App. 6000 pcs. p.h.
Electrical connection		230 V / 50 Hz or 115V 50/60Hz look at the label
Air pressure		6 bar
Tape hole spacing		12,7 mm or 15 mm (convertible)
Component pitch	Min.	2,5 mm
	Max.	Depending from the mould
Lead Ø		app. 0,4mm – 0,8 mm

Commissioning

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. Electric connection

Connect power cable with 230V / 50 Hz or 115V 50/60 Hz socket. Look at the label witch Voltage you need.

3. Air pressure connecting

Connect a NW 6 hose with the regulator (at back of the unit). Set air to 6 bar.

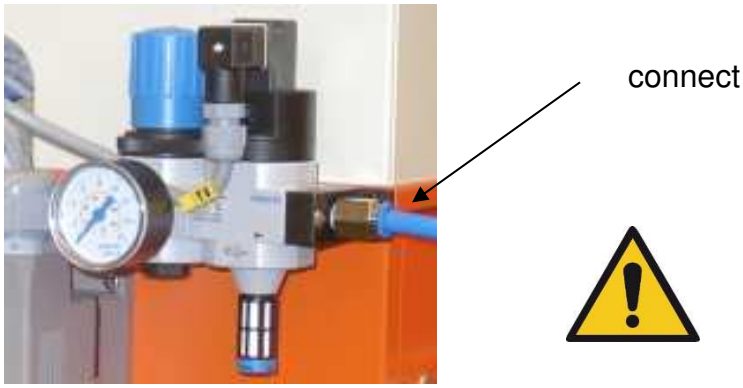


Figure 3
Air pressure connecting

4. Working with the machine

4.1 Turn on the machine

1. Close protection cover (for safety reasons the machine can only be started with closed protection cover).
2. Actuate power switch.
3. Reset counter.
4. Run the machine by releasing the START button respective the CYCLE button.

START- button ⇨ Continues run until the you open the safety hood, press stop, or the component belt is empty.

CYCLE- button ⇨ Start for a working cycle. (Adjusting the Machine).

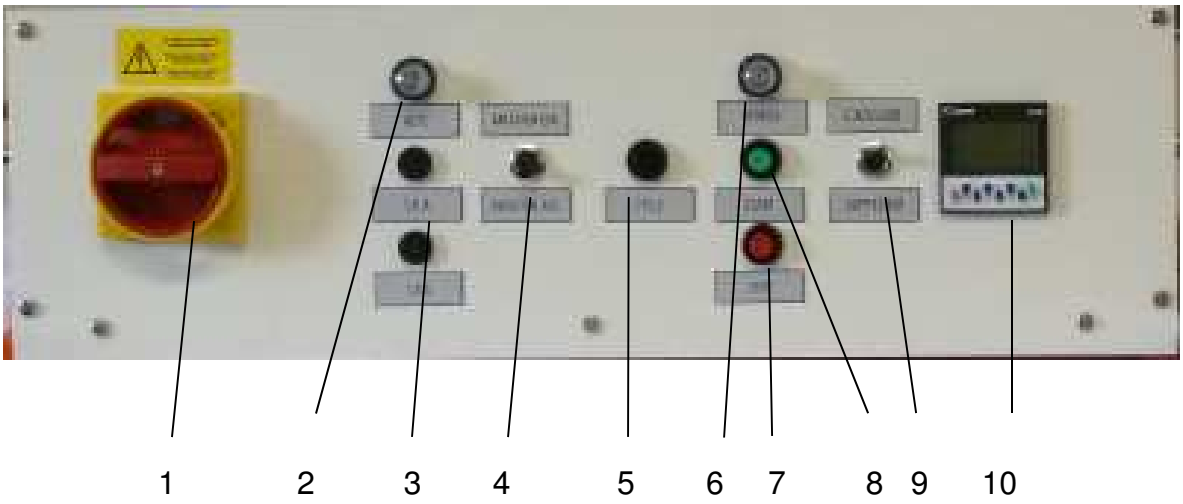


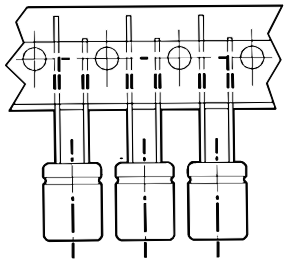
Fig. 4
Control panel

1. Main Switch
2. Power Control Lamp (Main Switch ON)
3. Fuses
4. Switch single stroke/double stroke
5. CYCLE- Button
6. Operating Lamp (machine is in automatic mode)START- Button
7. Stop button Counter
8. Start button
9. Switch single stroke/double stroke
10. counter

5. Insertion of component tape

When insering the tape pay attention to the type of taping.

5.1. 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.

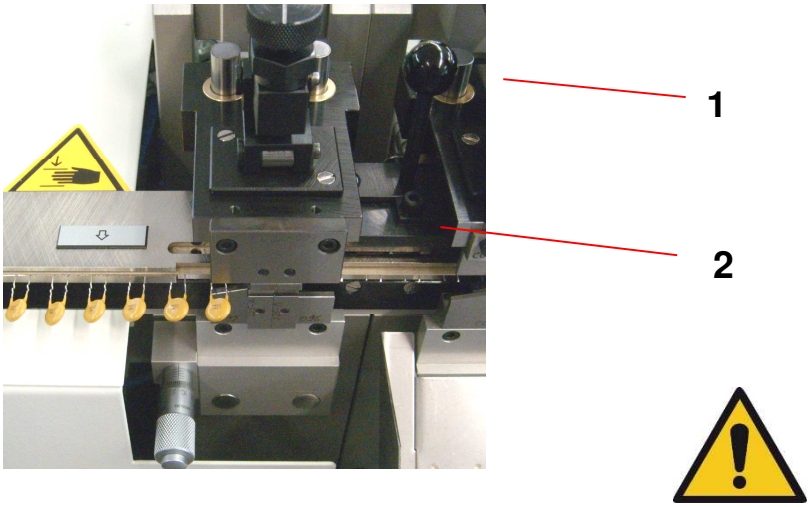
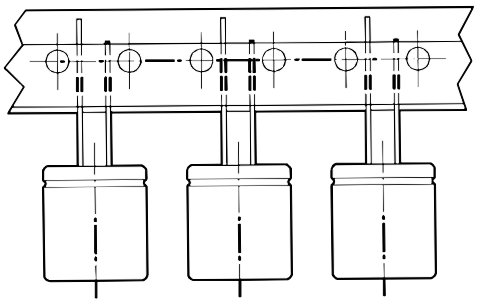


Figure 5 Tape is right in the machine

1. Handle
2. Tape centering

5.2 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.

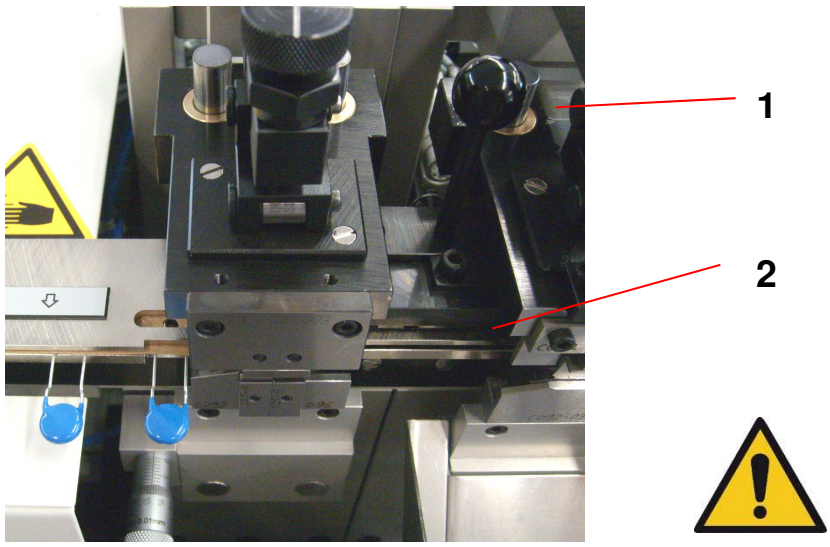


Figure 6 Tape is right in the machine

1. Handle
2. Tape centering

6. Working mode touch tool ON – touch tool OFF choose

Touch tool ON – only possible in connection with a special touch tool

1. Set switch (number 4 page 11) on the operating-panel at „Touch Tool ON" position.
2. Scale down micrometer-screw (number 19 page 18) scale-position 8 mm. In any case make sure, that the micrometer-screws do not interfere with the touch tool movement.

This tool touches the component body in a way, that the components were cut and bend with a tolerance of +/- 0.1 mm. Requirement for the use is, that a touch tool which is set to length is used.

Touch tool OFF

1. Set switch (number 4 page 11) on the operating-panel at „Touch Tool OFF" position.
2. Set the cutting length by using the micrometer-screws (number 19 page 18).

Cutting and bending length will be adjusted by the use of micrometer- screw. So a special "touch tool" is not required.

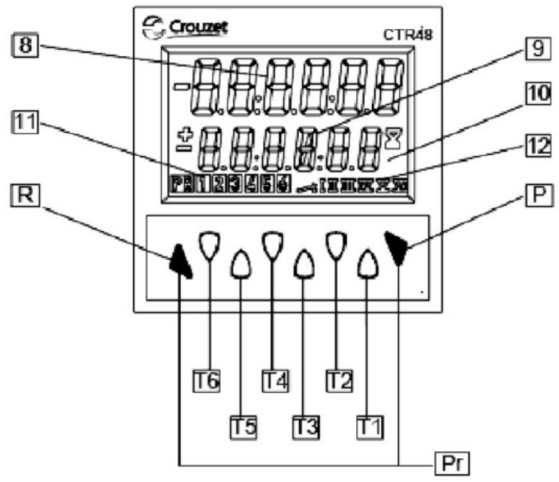
Advise: Preform only a few components first.

Measure the components and correct the adjustment with the micrometer-screws

Do the above again, until the components are according to your requirement

7. Counter

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)

8. 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.

Tool change and adjustment



1. Basic points for unit adjustments

- Prior to any non-operational work the machine must be secured to prevent possible damage or unauthorised activities during that time.
- Switch main power to **OFF** and pull out the plug.
- Make very sure that upon completion of any adjustments all loosened tooling, bolts and screws are retightened safely.
- 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

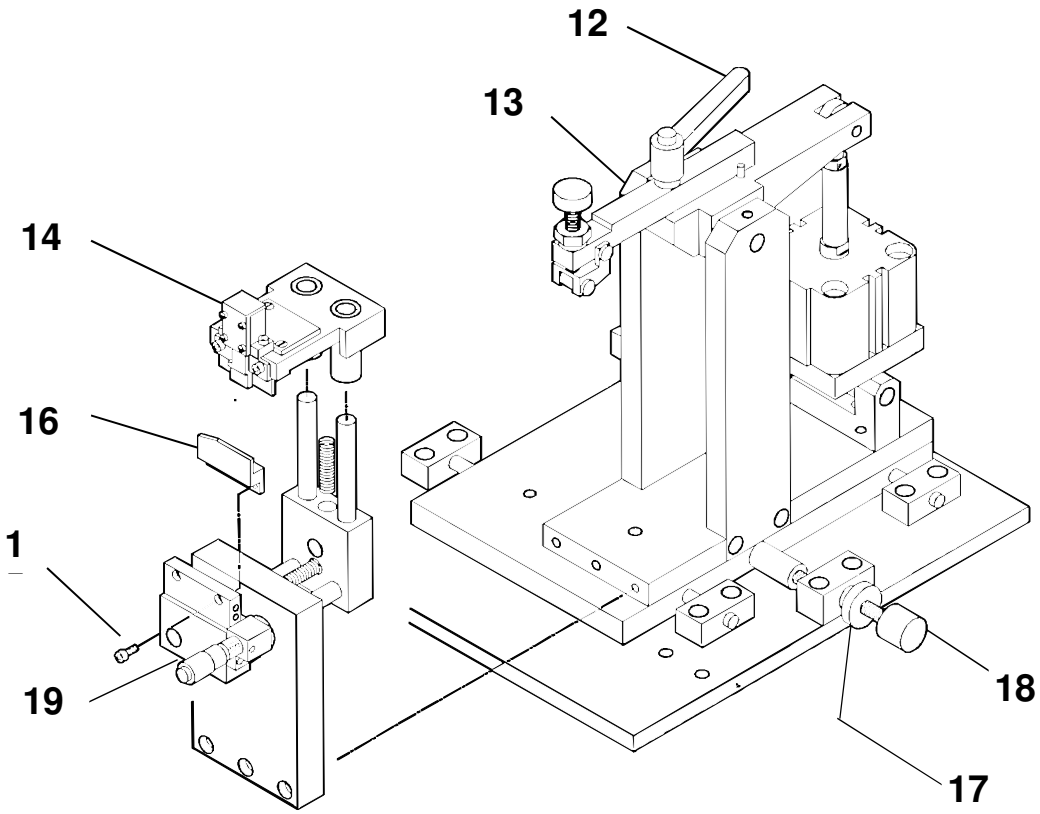


Figure 7 – tool change

12. Clamping Lever
13. Lever
14. Comp. Upper Tool
15. Cylinder Screw
16. Lower Tool
17. Knurled Nut
18. Spindle
19. Micrometer Screw

Use machine only if the safety hood is closed.



Upper tool

1. Release clamp-lever (12) and swing the lever (13) a side.
2. After having done the above the comp. upper tool can be taken off (from top) and changed without any problems.
3. Push the new tool by hand downwards and swing the lever (13) back to its working position.
4. Re-tight the clamping lever (12)

Lower tool

1. Take away the cylinder-screws (15) ad take-off the tool (16) in front- direction.
2. Set in the new tool in reverse direction.

Drawing on page 18.

3. Tools adjustment

Set the tool according to the component-leads.

Normally this adjustment is already made in our factory, but we will explain again to complete the instructions.

Open the knurled-nut (17) and shift the comp. tool-plate with the spindle (18) in horizontal-direction.

Cutting length - to be adjusted by the micrometer-screw

Turn clockwise ⇨ shorter cutting length

Turn counter-clockwise ⇨ longer cutting length

Drawing on page 18.

4. Modification to another pitch- size

4.1. Exchange of the tape feeding

1. Take the upper tools out of the machine.
2. Feed the socket wrench SW 5 into the mounting-drillings (2) of the front safety-cover and open the hexagon-screw (20) which is sitting behind. Open as well the thread-pin (23) at the right side of the cover. Do not take the screws out completely only open them.
3. Take off the comp. tape feeding and change it.
4. Tighten the hexagon-screw (20) add the thread-pin (23)

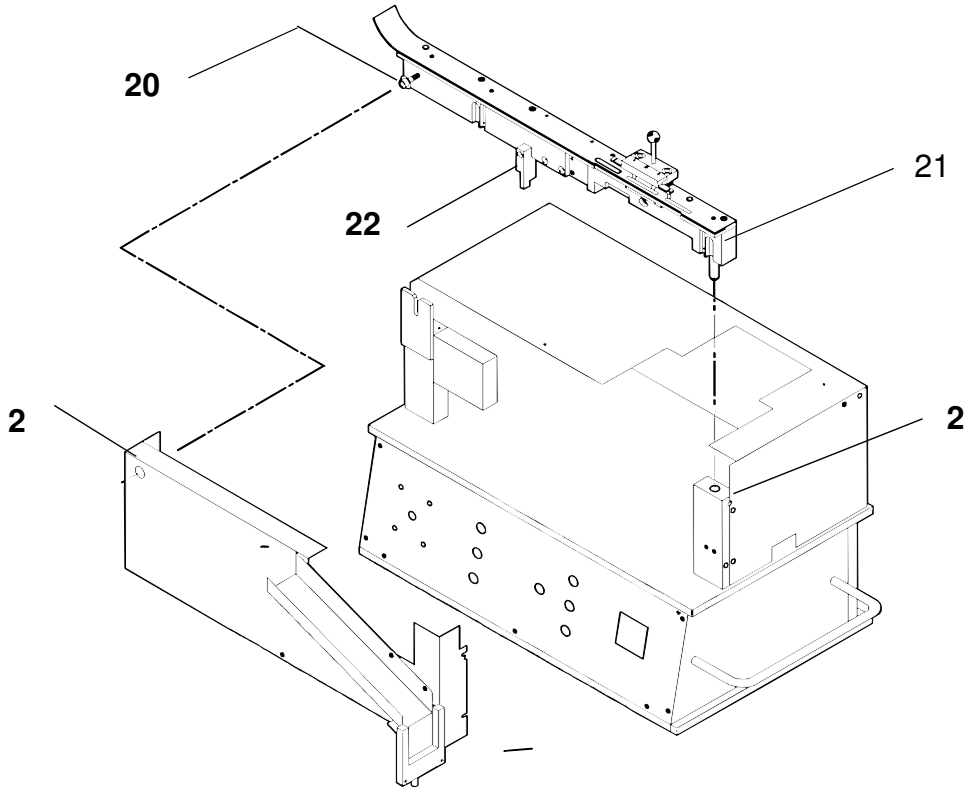


Figure 8 – Exchange of the tape feeding

2. Mounting- Drilling
20. Cylinder- Screw
21. Tape Feeding
22. Stopper (only at pitch 12,7)
23. Thread- Pin

5. Tape copper unit (Optional)

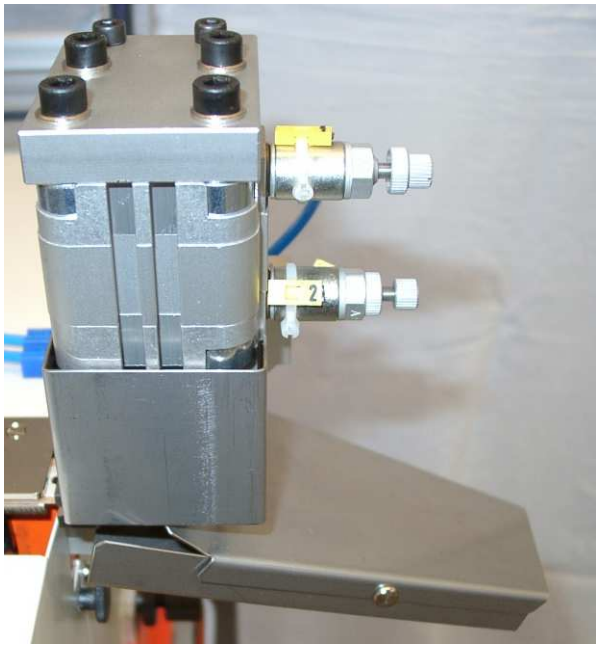


Figure 9 tape chopper unit

<u>Change transport unit from 12,7 mm to 15 mm including tape chopper</u>

1. Remove all air hoses
2. Remove slide track
3. Remove socket head-cap screw
4. Remove tape chopper
5. Follow the instructions on page 19 of this manual for complete exchange
6. To re-install the tape chopper reverse all steps as described above
7. By use of the two socket head-cap screws, adjust the tape chopper back or to the hole of the component tape.

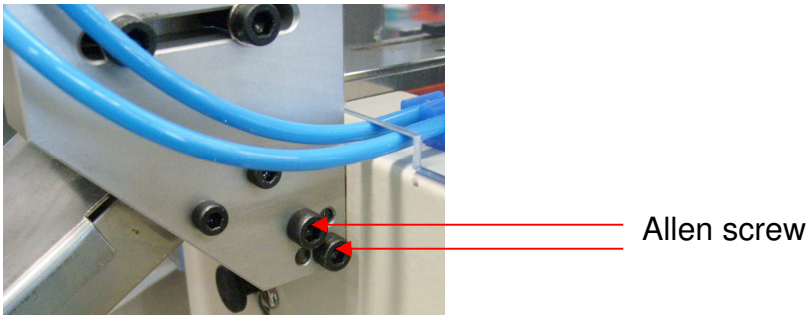


Figure 10 – holder tape chopper

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

	Interval				Task
	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 conveyor graspers etc.		X			Clean and lubricate slightly with oil. **No grease**
Electrical check			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!

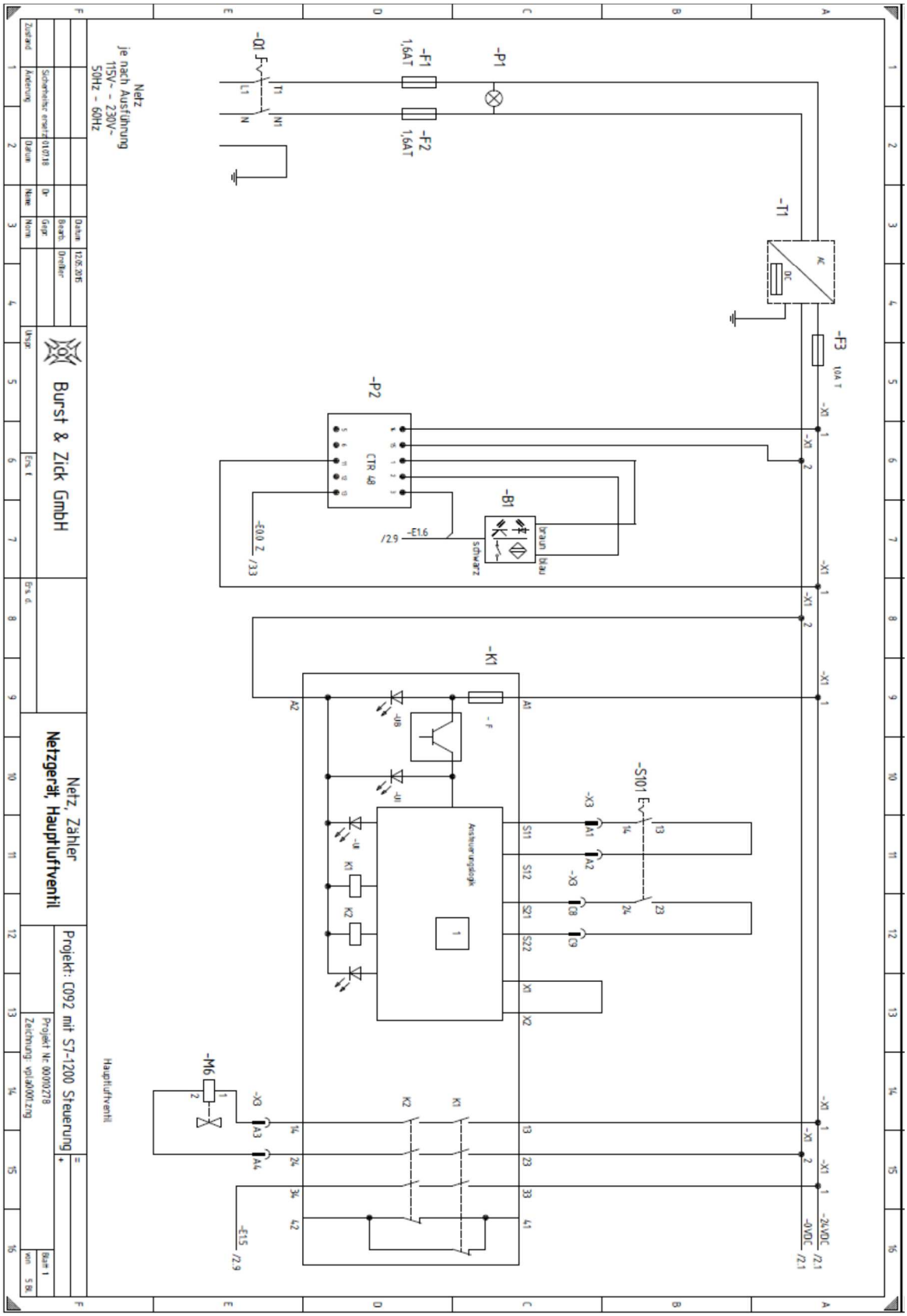
Caution: No grease may be used for lubricating moving and sliding parts. Use thin lubricants only, such as oil spray.

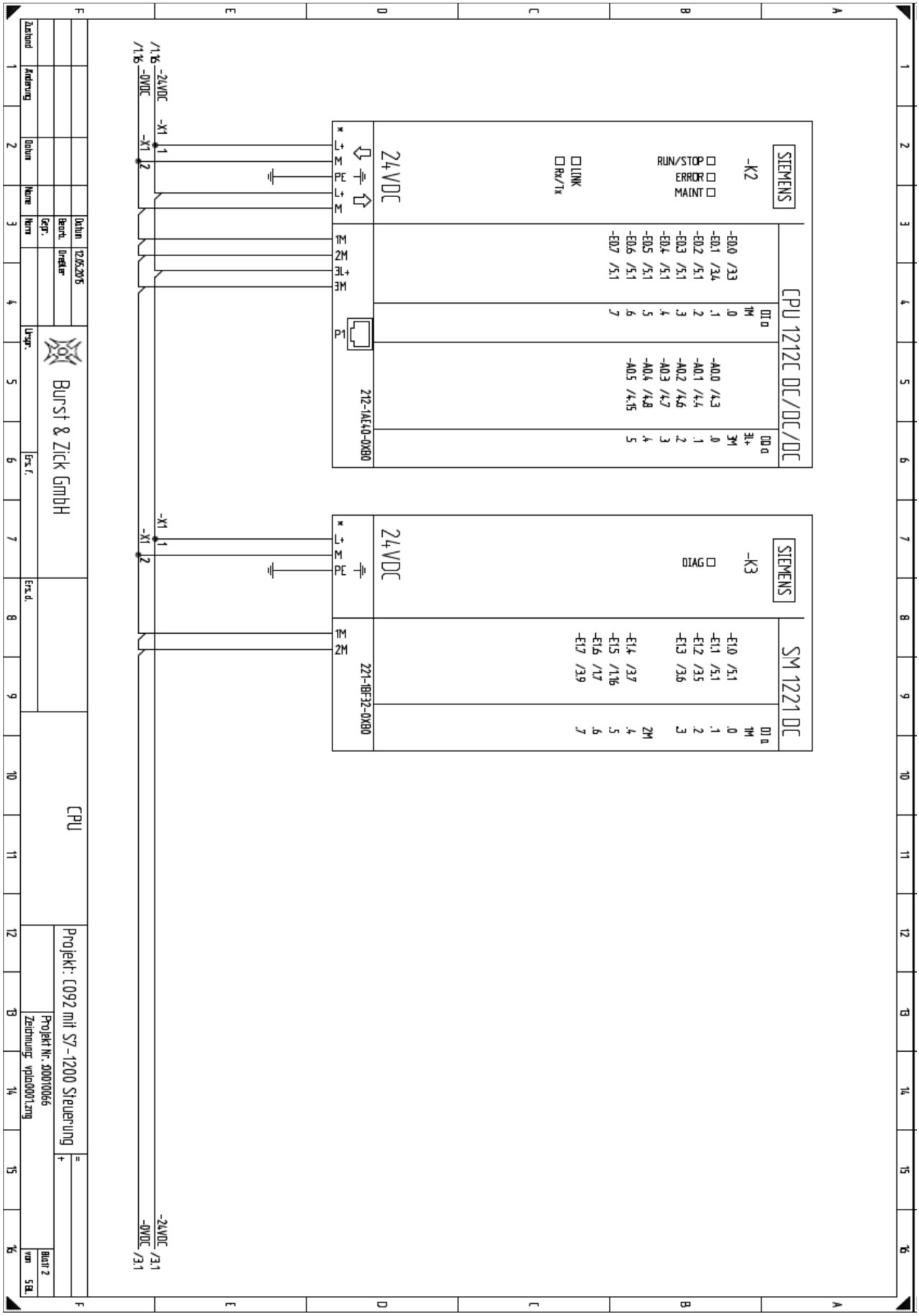


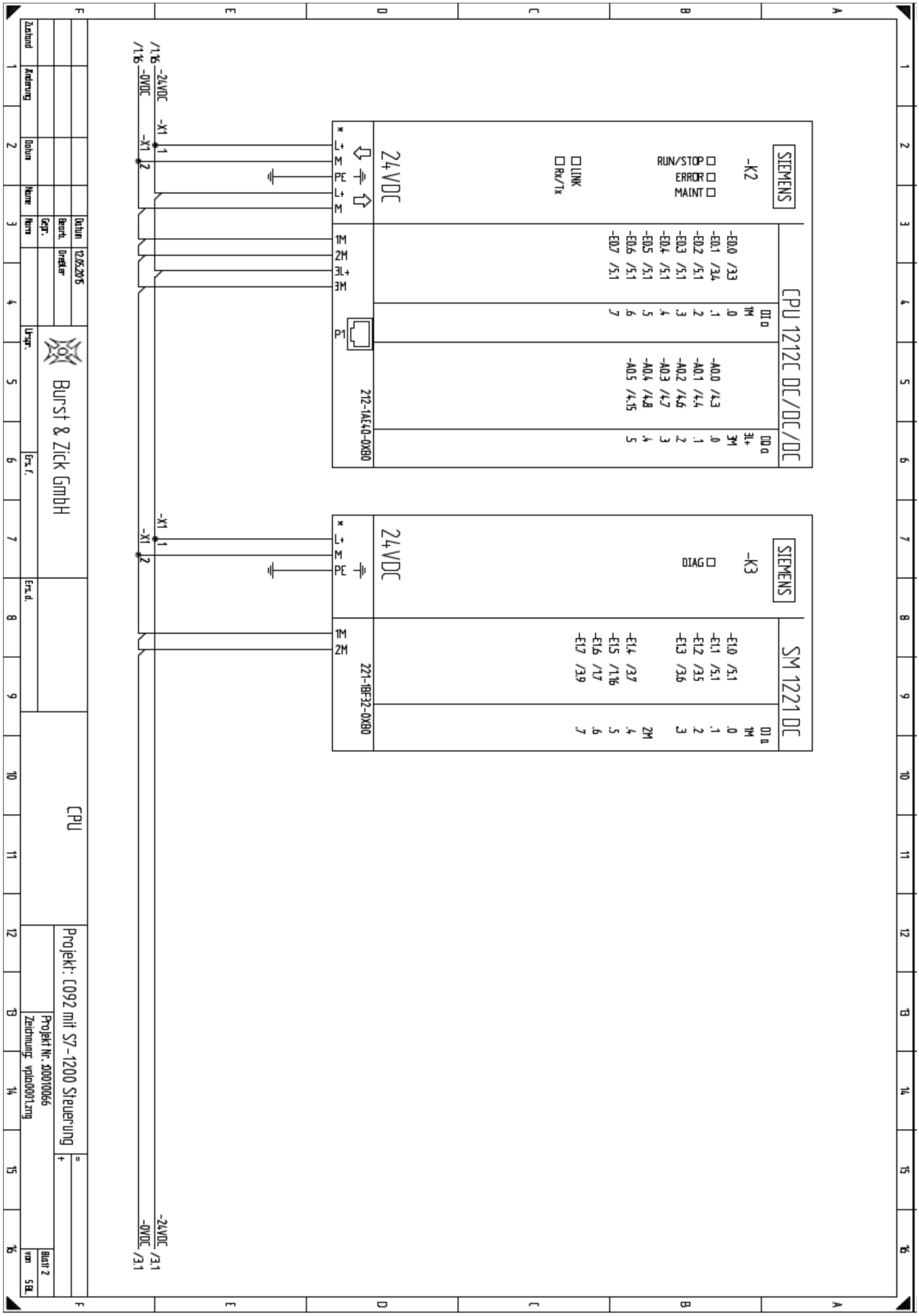


Technical documents

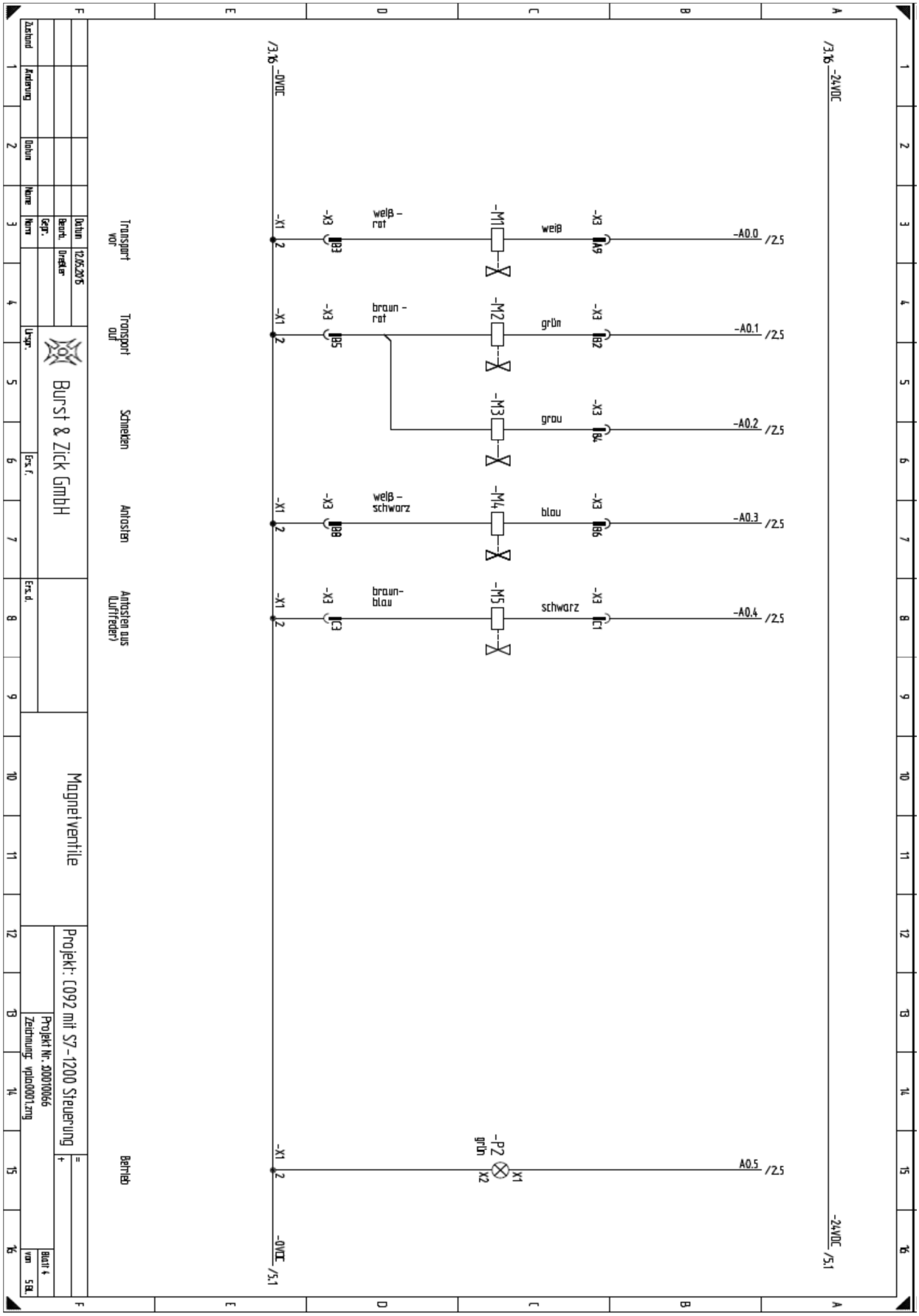
1. Circuit diagram C092

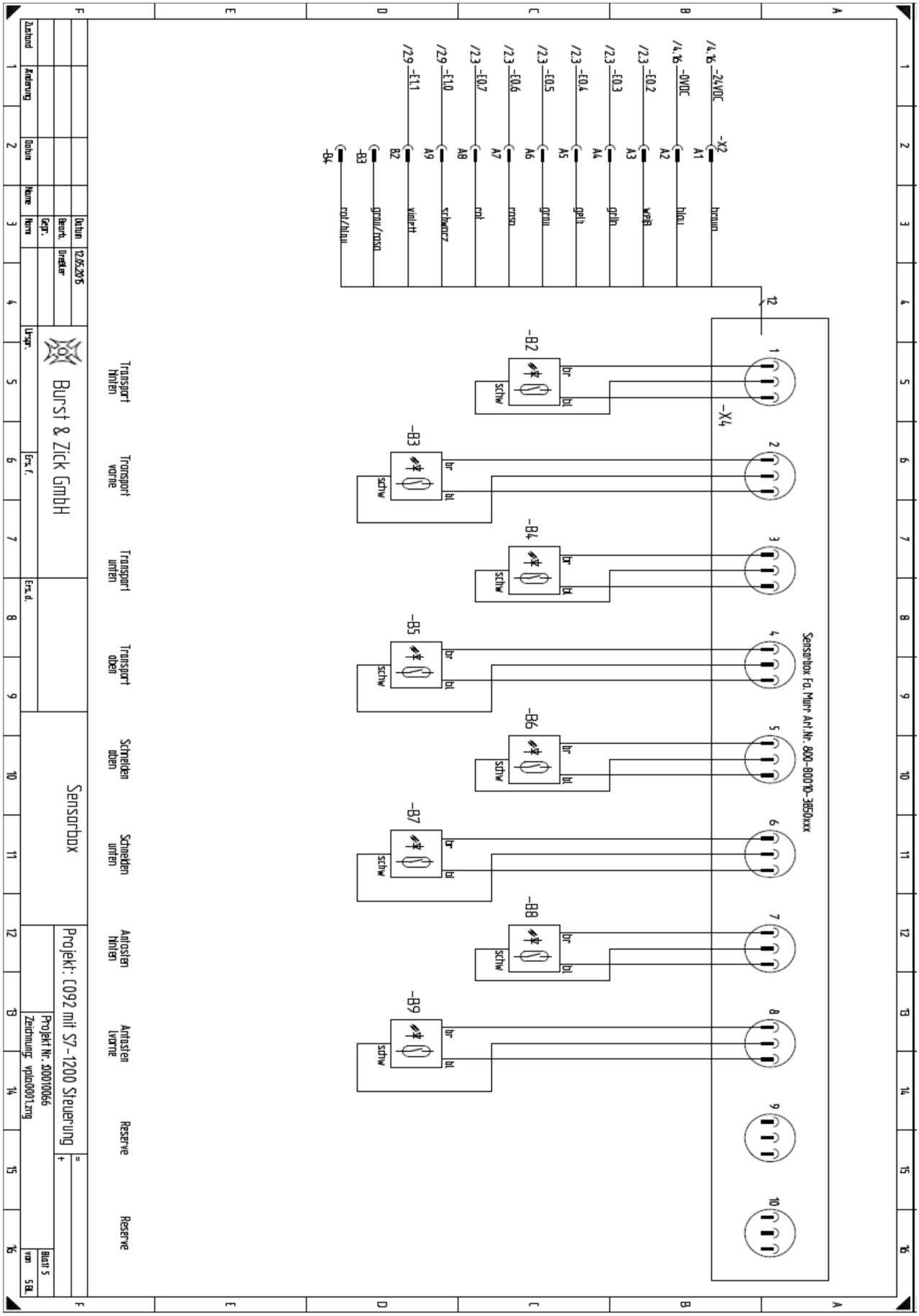


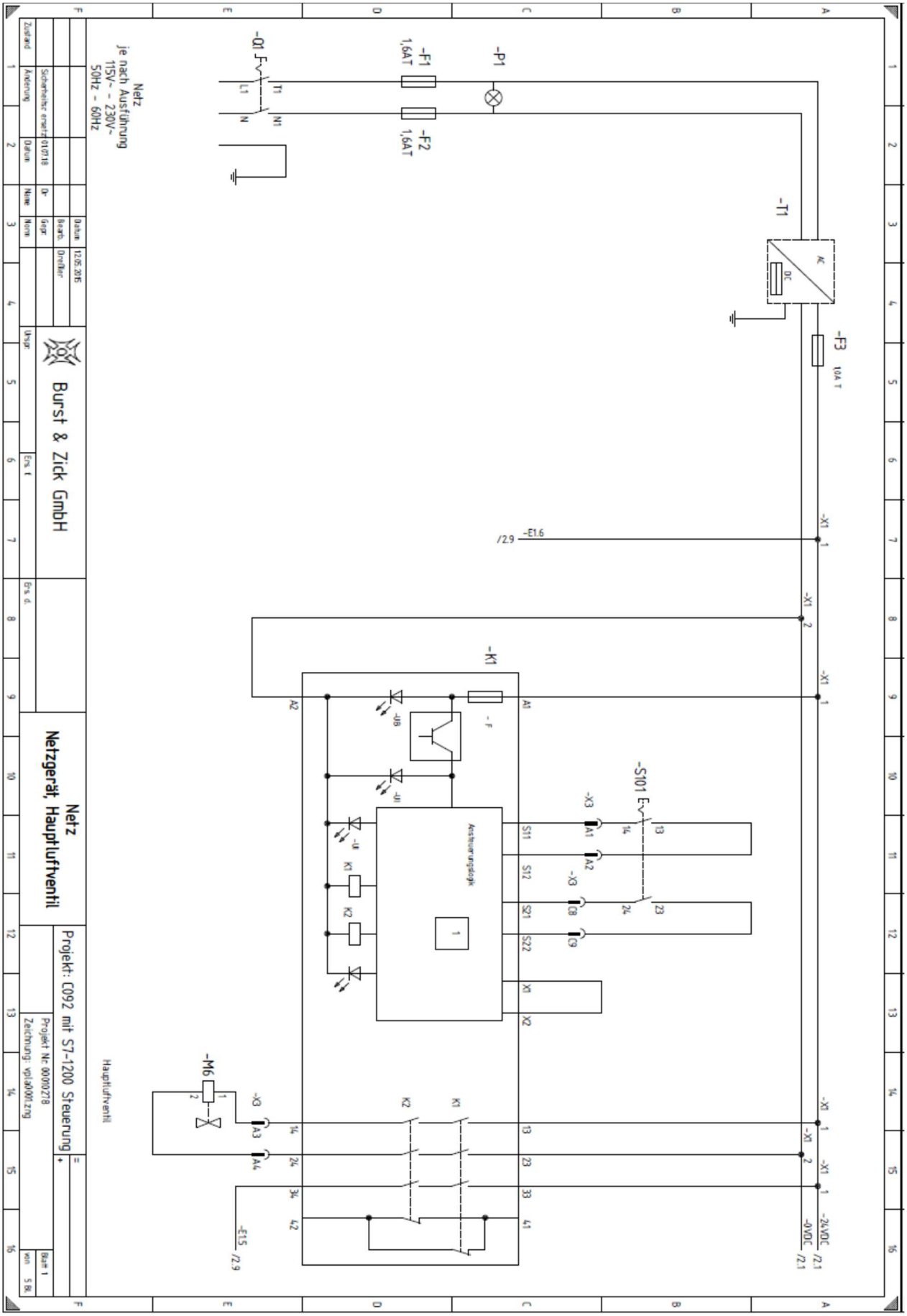

SIEMENS
-K2
CPU 1212C DC/DC/DC
RUN/STOP
ERROR
MAINT
LINK
Rx/Tx
24VDC
SIEMENS
-K3
SM 1221 DC
DIAG
24VDC
-24VDC
-0VDC
-X1
Burst & Zick GmbH
CPU
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr.: 200010066
Zeichnung: vplc0001.zmg
Datum
12.05.2015
Name
Dreßler
Änderung
Zustand

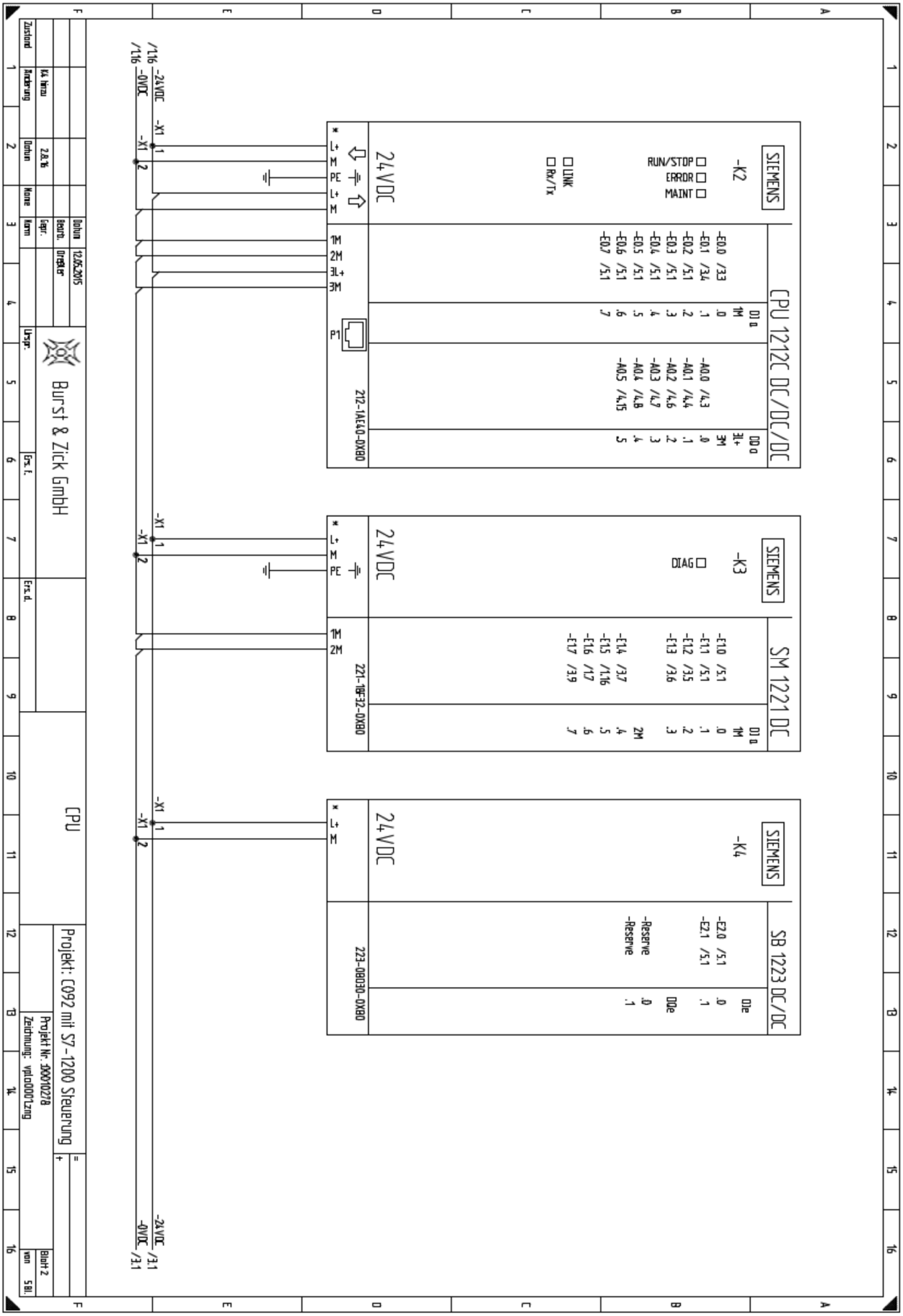

SIEMENS
-K2
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Name
Drechsler
Änderung
Zustand

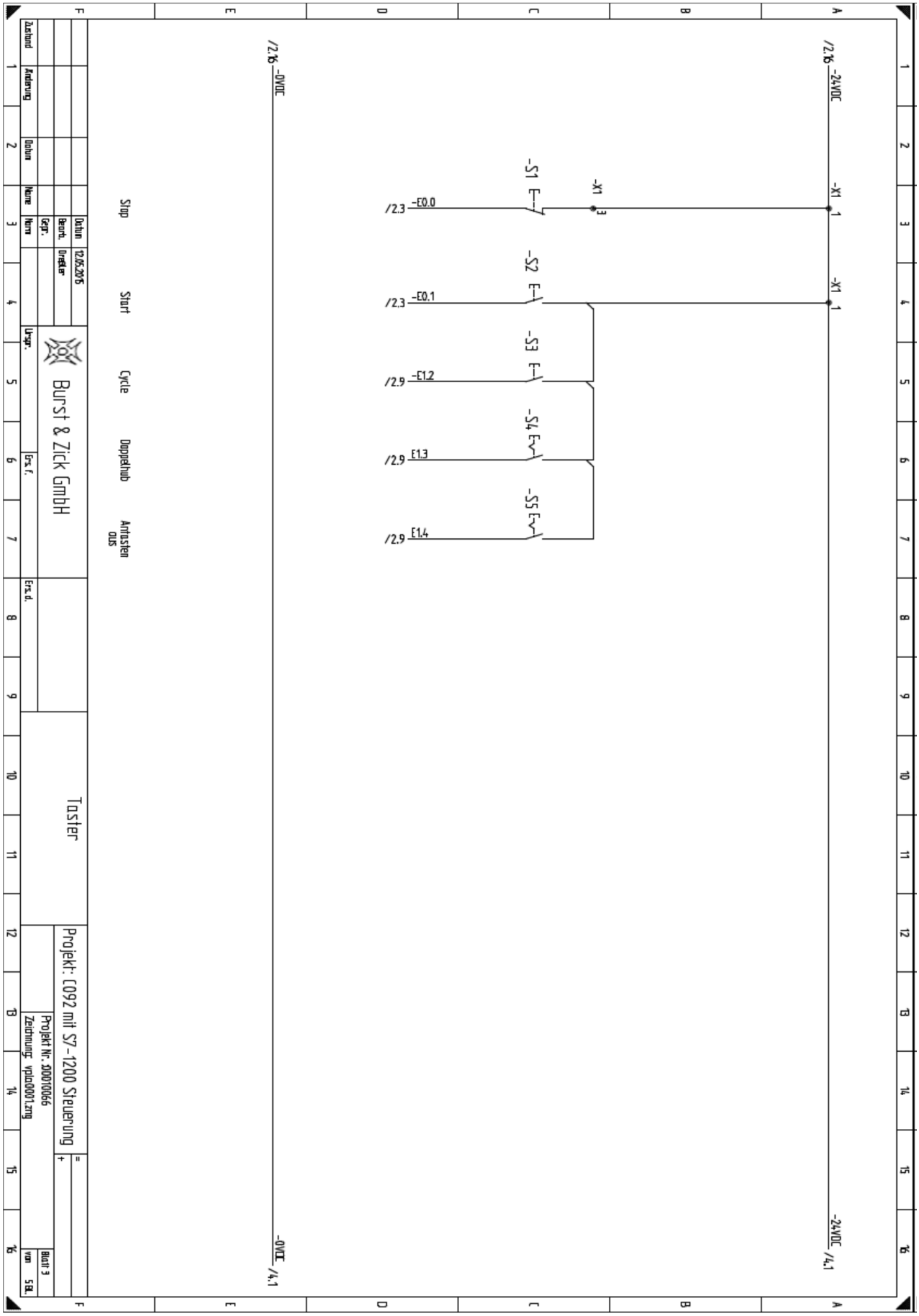
/2.16 -24VDC
-S1
-X1
3
-E0.0 Z
/1.7
/2.3 -E0.0
-S2
-X1 1
/2.3 -E0.1
-S3
/2.9 -E1.2
-S4
/2.9 E1.3
-S5
/2.9 E1.4
/2.16 -0VDC
-24VDC /4.1
-0VDC /4.1
Stop
Start
Cycle
Doppelhub
Antasten aus
Burst & Zick GmbH
Taster
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Projekt Nr.: 200010066
Zeichnungs. vpla0001.zmg
Blatt 3 von 5 8

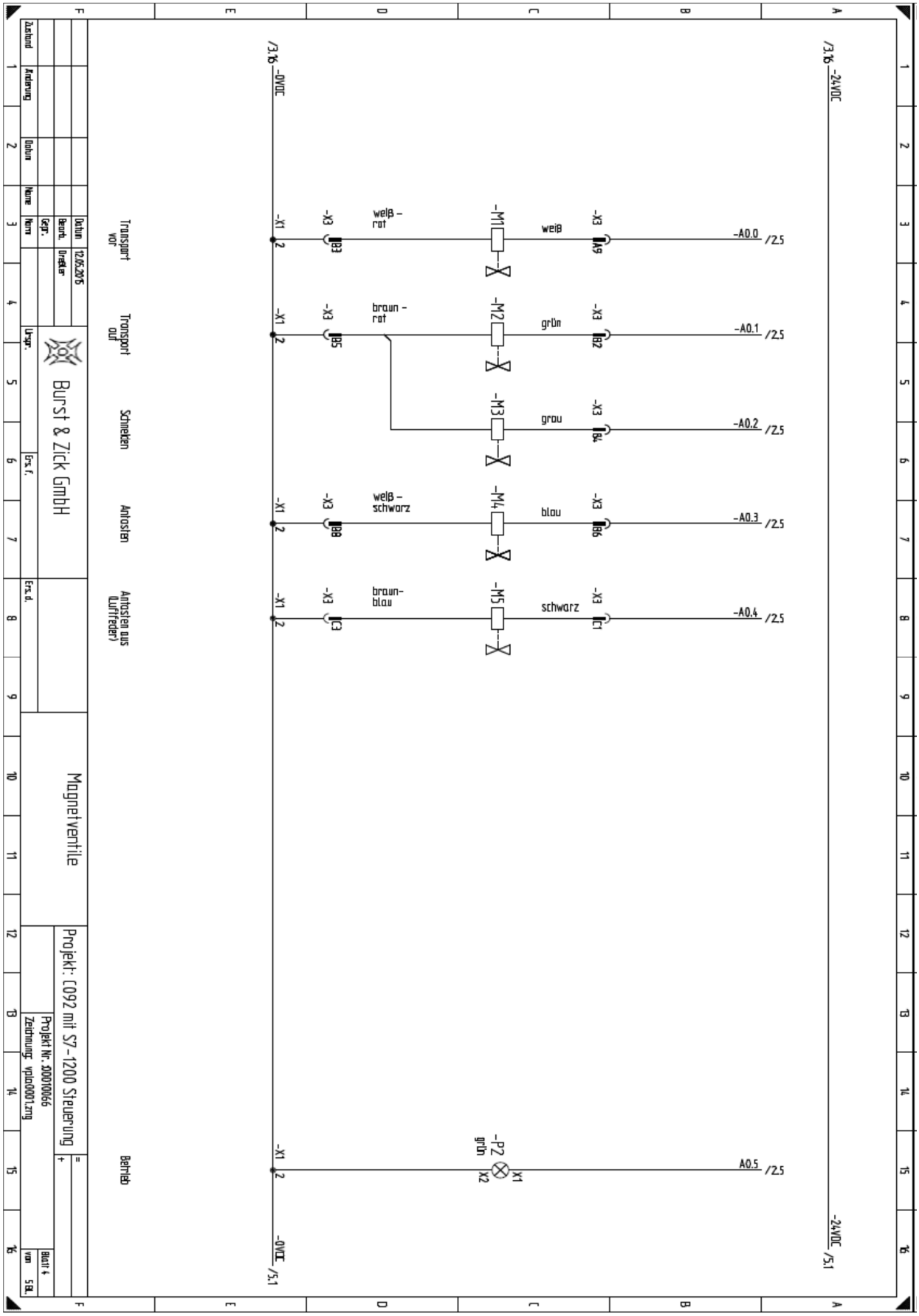

Burst & Zick GmbH
Magnetventile
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr.: 000110066
Zeichnung: vpbb0001.zmg
Transport vor
Transport auf
Schneiden
Anlasten
Anlasten aus (Luftfeder)
Betrieb
-24VDC
-0VDC
-M1
-M2
-M3
-M4
-M5
-P2
-A0.0
-A0.1
-A0.2
-A0.3
-A0.4
-A0.5
weiß - rot
braun - rot
grau
weiß - schwarz
braun-blau
weiß
grün
blau
schwarz

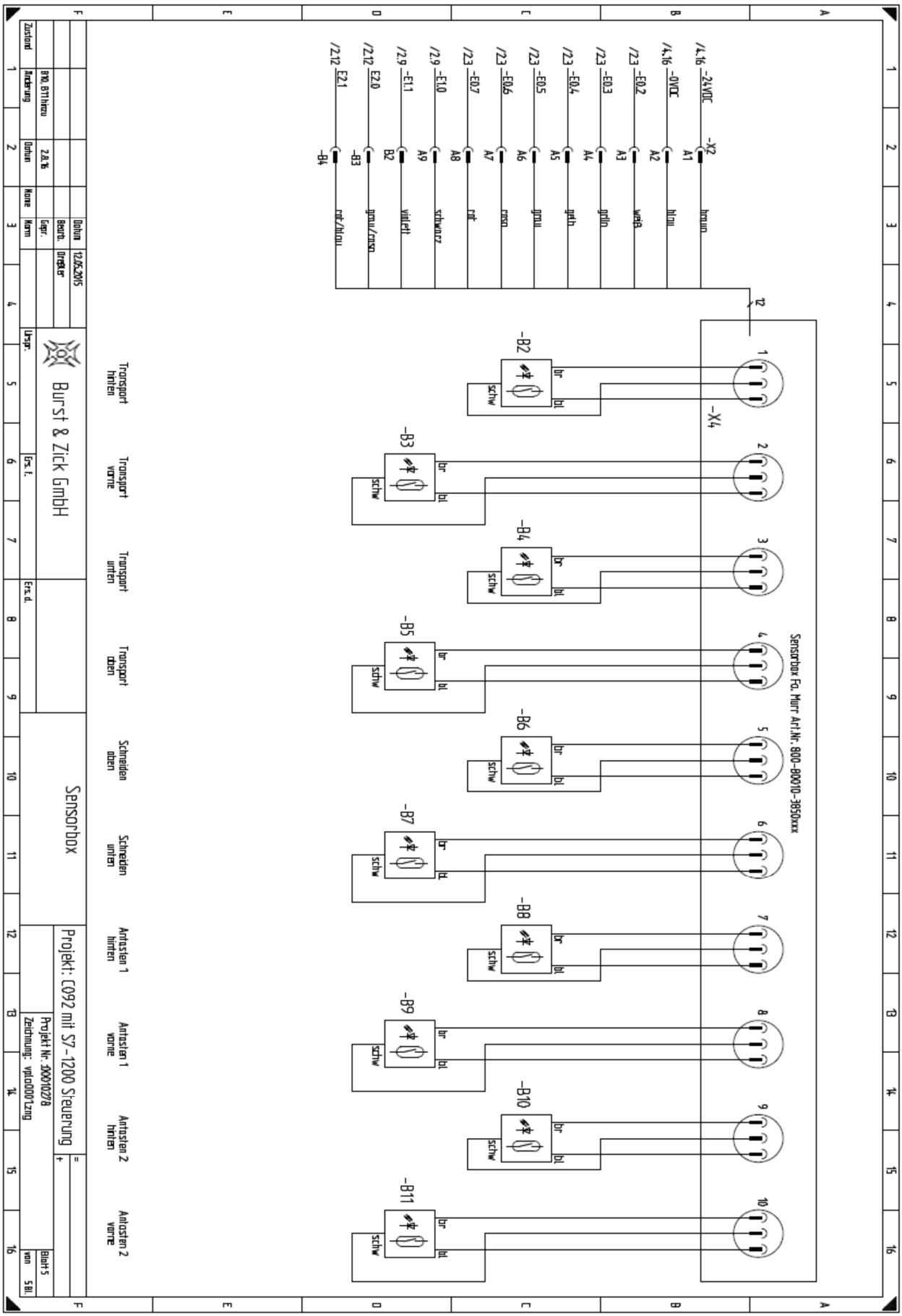

Sensorbox
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr.: 200010066
Zeichnung: vpla0001.zmg
Burst & Zick GmbH
Sensorbox Fa. Murr Art.Nr. 800-80010-3850xxx
-X2
-X4
-24VDC
-0VDC
-E0.2
-E0.3
-E0.4
-E0.5
-E0.6
-E0.7
-E1.0
-E1.1
braun
blau
weiß
grün
grau
rosa
rot
schwarz
violett
grau/rosa
rot/blau
-B2
-B3
-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
Reserve
Reserve


Netz
je nach Ausführung
115V~ - 230V~
50Hz - 60Hz
-Q1
-F1
1,6AT
-F2
1,6AT
-P1
-T1
-F3
10A T
-K1
-S101
-M6
-E15
/2.9
-E1.6
-X1
-24VDC
/2.1
-0VDC
/2.1
Burst & Zick GmbH
Netz
Netzgerät, Hauptluftventil
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr: 90090278
Zeichnung: vpla0001.zng
Hauptluftventil


SIEMENS
-K2
CPU 1212C DC/DC/DC
RUN/STOP
ERROR
MAINT
LINK
Rx/Tx
24VDC
212-1AE40-0XB0
SIEMENS
-K3
SM 1221 DC
DIAG
24VDC
221-1BF32-0XB0
SIEMENS
-K4
SB 1223 DC/DC
24VDC
223-0BD30-0XB0
-Reserve
-Reserve
-24VDC
-0VDC
Burst & Zick GmbH
CPU
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr: 200010278
Zeichnung: vpl_c00012.zng


/2.16 -24VDC
-X1 1
-X1 1
-24VDC /4.1
-S1
-X1 3
/2.3 -E0.0
-S2
/2.3 -E0.1
-S3
/2.9 -E1.2
-S4
/2.9 E1.3
-S5
/2.9 E1.4
/2.16 -0VDC
-0VDC /4.1
Stop
Start
Cycle
Doppelhub
Antasten aus
Burst & Zick GmbH
Taster
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr.: 200010066
Zeichnungs. vpla0001.zmg
Datum 12.05.2015
Gepr. Direktor
Urspr.
Ers. f.
Ers. d.
Änderung
Zustand
Name
Norm
Blatt 3 von 5 B

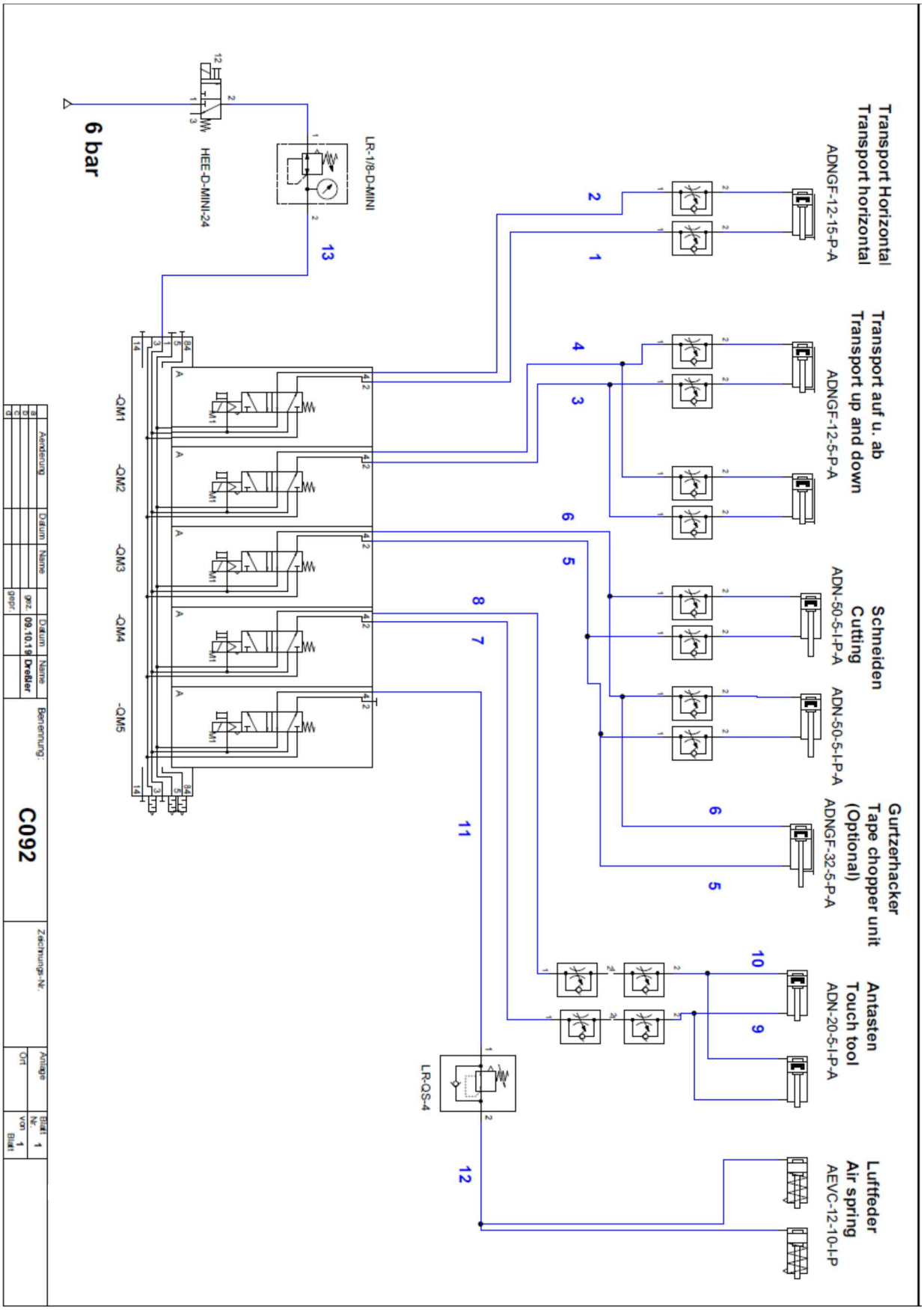

Burst & Zick GmbH
Magnetventile
Projekt: C092 mit S7-1200 Steuerung
Projekt Nr.: 000010066
Zeichnung: vpbb0001.zmg
Transport vor
Transport auf
Schneiden
Anlosen
Anlosen aus (Luftfeder)
Betrieb
-24VDC
-0VDC
-M1
-M2
-M3
-M4
-M5
-P2
weiß - rot
braun - rot
weiß
grün
grau
blau
weiß - schwarz
braun-blau
schwarz
-A0.0 /2.5
-A0.1 /2.5
-A0.2 /2.5
-A0.3 /2.5
-A0.4 /2.5
A0.5 /2.5


Sensorbox
Projekt: C092 mit S7-1200 Steuerung
Burst & Zick GmbH
Sensorbox Fa. Murr Art.Nr. 800-80010-3850xxx
-X2
-X4
-B2
-B3
-B4
-B5
-B6
-B7
-B8
-B9
-B10
-B11
Transport hinten
Transport vorne
Transport unten
Transport oben
Schneiden oben
Schneiden unten
Antasten 1 hinten
Antasten 1 vorne
Antasten 2 hinten
Antasten 2 vorne
Projekt Nr: 100010278
Zeichnung: vpl0000Lzng

2. Piece- and spare parts list electrical parts C092

Name	Type	Number	Recommended spare parts
Q1	Main switch	CA10 T302/D-A004 EG	
F1,F2	Fuse holder FEF Locking device Fuse 1,6AT Cap	0031.1085 0696.0033 5x20 mm 0859.0042	 10 pieces
F3	Fuse holder Fuse 1,0AT	UK5HESI 5x20 mm	 10 pieces
P1	Lamp socket Lamp 230V Cap	1.60502.1020214 578-367 5.52011.026	
P2	Lamp socket Lamp 24V-30V Cap	1.60502.1020214 193-5020 5.52011.026	
P3	Counter	CTR 48	
T1	Power supply 1,3A	DSP 30-24	
K1	Safety relay	SRB301MC	
K2	S7-1200 CPU 1212C	6ES7 212-1AE40-0XB0	
K3	Signal modul	6ES7 221-1BF32-0XB0	
K4	Signal modul	6ES7 223-0BD30-0XB0	
X1	Terminal blocks	WDK 2,5	
X2, X3	Socket housing Busch insert Socket shell Pin insert	09200160301 09210253101 09200160541 09210253001	
S1	Push button red	101001011/0301	
S2	Push button green	101001001/0507	
S3	Push button black	101001.001/0104	
S4	Toggle switch	0100.1201	
B2-B11	Proximity switch	SME8-M-DS-24V-K0,3-M8D	5 pieces
M1-M5	Valve cluster	VTUG-10MSDR-S1T-25V20-G18-U-M5S-5A+M1	
M6	Electromagnetic valve Plug	HEE-D-Mini-24 172956 MSSD-EB 151687	
S 101	Safety switch Actuator B2	AZ 16-02 zvrk AZ 15/16	
X4	Sensor pad	800-80010-3850300	
B1	Folk light barrier	0GU050 G3-T3	1 piece

3. Pneumatic layout C092



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

Cutting- and bending machine
C092

Housing ..... Tz 1

Transport ..... Tz 2

Tool actuation ..... Tz 3

Tape-centering ..... Tz 4

Tool-slider (touch tool) ..... Tz 5

Cutting tool ..... Tz 10

Bending tool ..... Tz 11

Safety hood ..... Tz 13

Component guide ..... Tz 14

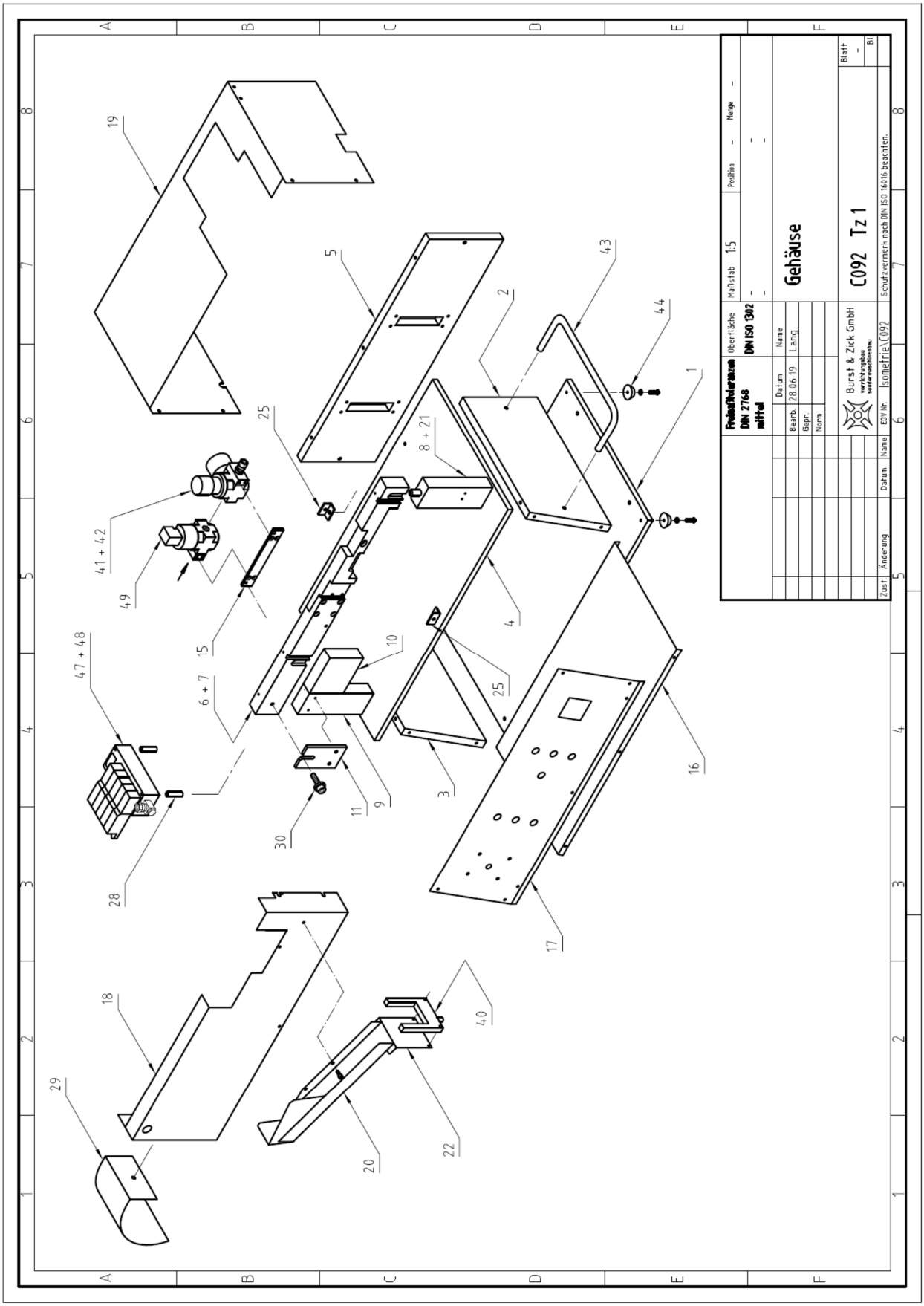
Tape chopper unit (optional) ..... Tz 16

Recommended spare parts

Tz 1 - Housing

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 1 T. 1	Base plate	
2	1	C092 Tz 1 T. 2	Side panel, right	
3	1	C092 Tz 1 T. 3	Side panel, left	
4	1	C092 Tz 1 T. 4	Carrier plate	
5	1	C092 Tz 1 T. 5	Back panel	
6	1	C092 Tz 1 T. 6	Carrier	
7	1	C092 Tz 1 T. 7	Carrier	
8	1	C092 Tz 1 T. 8	Carrier	
9	1	C092 Tz 1 T. 9	Carrier	
10	1	C092 Tz 1 T. 10	Carrier	
11	1	C092 Tz 1 T. 11	Plate	
15	1	C092 Tz 1 T. 15	Fixture plate	
16	1	C092 Tz 1 T. 16	Housing	
17	1	C092 Tz 1 T. 17	Front panel	
18	1	C092 Tz 1 T. 18	Safety sheet, front	
19	1	C092 Tz 1 T. 19	Safety sheet, rear	
20	1	C092 Tz 1 T. 20	Chute	
21	1	C092 Tz 1 T. 21	Centring bolt hardened Ø10h6 x 45	
22	1	C092 Tz 1 T.22	Holder for light barrier	
25	2	C092 Tz 1 T.25	Angle	
29	1	C092 Tz 1 T.29	Inlet	
30	1	C092 Tz 1 T.30	Disc (with screw)	
40	1		Fork light barrier OG U 50	
41	1		Pressure controller LR-1/8-MINI-D	
42	1		Manometer MA-40-16-1/8	
43	2		Handle GN 425-10-235-CR	
44	4		Rubber foot	
47	1		Valve bock VTUG-10	

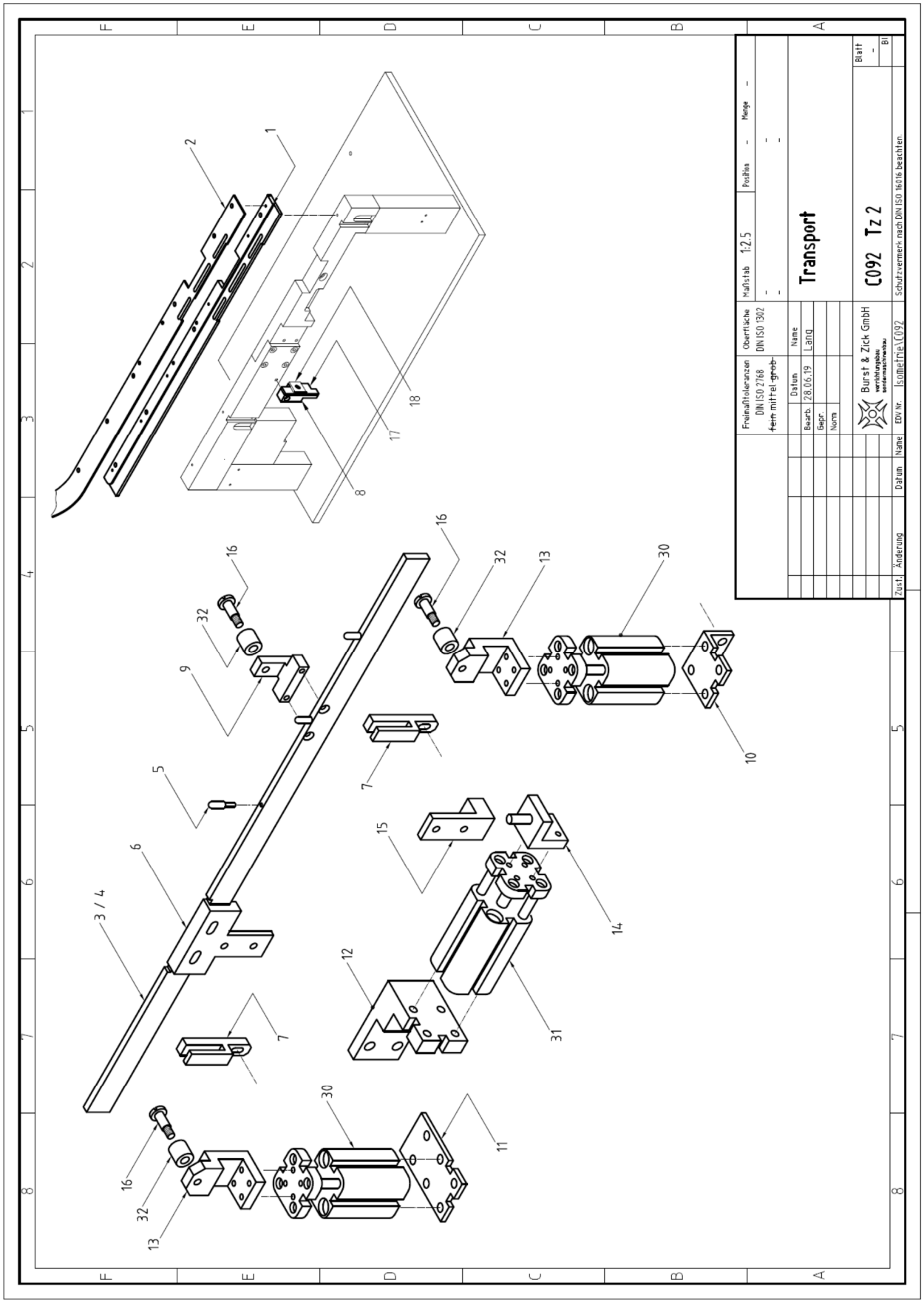
Item	Qty.	Drawing no.	Description	Notes
48	5		Magnet valve	
49	1		Magnet valve HEE-D-Mini-24	


Gehäuse
C092 Tz 1
Burst & Zick GmbH
Maßstab 1:5
Position - -
Menge - -
Oberfläche DIN ISO 1302
Allgemeintoleranzen DIN 2768 mittel
Datum 28.06.19
Name Lang
Bearb.
Gepr.
Norm
EDV Nr. Solidfile\C092
Schutzvermerk nach DIN ISO 16016 beachten.
Blatt - Bl
Zust. Änderung Datum Name
19
5
43
2
44
1
25
8 + 21
41 + 42
49
15
6 + 7
47 + 48
10
4
25
16
28
30
11
9
3
17
18
40
29
20
22

Tz 2 - Transport

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 2 T. 1	Guiding rail	
2	1	C092 Tz 2 T. 2	Guiding	
3	1	C092 Tz 2 T. 3	Rail	Pitch 12,7 [1)]
4	1	C092 Tz 2 T. 4	Rail	Pitch 15 [1)]
5	3	C092 Tz 2 T. 5	Catch	
6	1	C092 Tz 2 T. 6	Slide	
7	2	C092 Tz 2 T. 7	Guiding	
8	1	C092 Tz 2 T. 8	Stroke- limiter	only pitch 12,7
9	1	C092 Tz 2 T. 9	Holder	
10	1	C092 Tz 2 T. 10	Holding angle, right	
11	1	C092 Tz 2 T. 11	Holding angle, left	
12	1	C092 Tz 2 T. 12	Holding angle	
13	2	C092 Tz 2 T. 13	Holder	
14	1	C092 Tz 2 T. 14	Angle	
15	1	C092 Tz 2 T. 15	Holder	
16	3	C092 Tz 2 T. 16	Bolt	
17	1	C092 Tz 2 T. 17	Clamping plate	
18	1	C092 Tz 2 T. 18	Rubber plate	
30	2		Cylinder ADNGF-12-5-P-A	
31	1		Cylinder ADNGF-12-15-P-A	
32	3		Needle bearing NK 5/10	

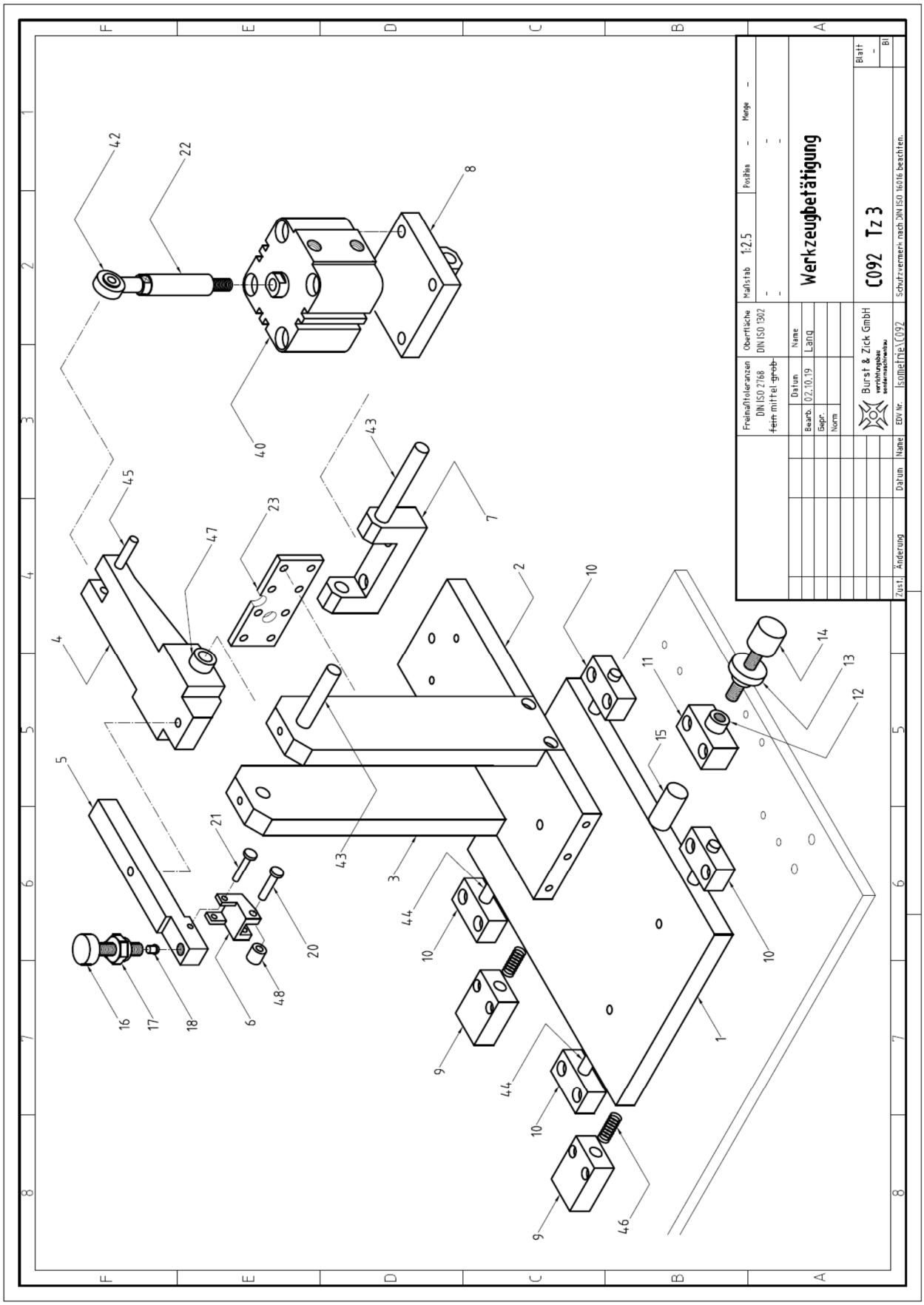
[1)] Optionally as requested


Transport
C092 Tz 2
Burst & Zick GmbH
Maßstab 1:2.5
Position -
Menge -
Oberfläche DIN ISO 1302
Freimaßtoleranzen DIN ISO 2768 fein mittel grob
Datum
Name
Bearb. 28.06.19 Lang
Gepr.
Norm
EDV Nr. Isometrie_C092
Blatt -
Schutzvermerk nach DIN ISO 16016 beachten
Zust. Änderung Datum Name
1
2
3 / 4
5
6
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11
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18
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31
32

Tz 3 - Tool actuation

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 3 T. 1	Bearing pate	
2	1	C092 Tz 3 T. 2	Bearing plate	
3	4	C092 Tz 3 T. 3	Bearing Plate	
4	2	C092 Tz 3 T. 4	Lever	
5	2	C092 Tz 3 T. 5	Lever	
6	2	C092 Tz 3 T. 6	Holder	
7	2	C092 Tz 3 T. 7	Bearing	
8	2	C092 Tz 3 T. 8	Holder	
9	2	C092 Tz 3 T. 9	Spring bearing	
10	4	C092 Tz 3 T. 10	Bearing	
11	1	C092 Tz 3 T. 11	Bearing	
12	1	C092 Tz 3 T. 12	Threaded bushing	
13	1	C092 Tz 3 T. 13	Nuts	
14	1	C092 Tz 3 T. 14	Spindle	
15	1	C092 Tz 3 T. 15	Bold	
16	2	C092 Tz 3 T. 16	Adjustment screw	
17	2	C092 Tz 3 T. 17	Nuts	
18	2	C092 Tz 3 T. 18	Cover	
20	2	C092 Tz 3 T. 20	Bold	
21	2	C092 Tz 3 T. 21	Bold	
22	2	C092 Tz 3 T. 22	Pulling rod	
23	2	C092 Tz 3 T. 23	Plate	
40	2		Cylinder ADN-50-5-I-P-A	
42	2		Joint head SGS-M6	
43	4		Shaft, hardened ∅10h6 x 80	
44	4		Shaft, hardened ∅8h6 x 55	
45	2		Shaft, hardened ∅6h6 x 35	

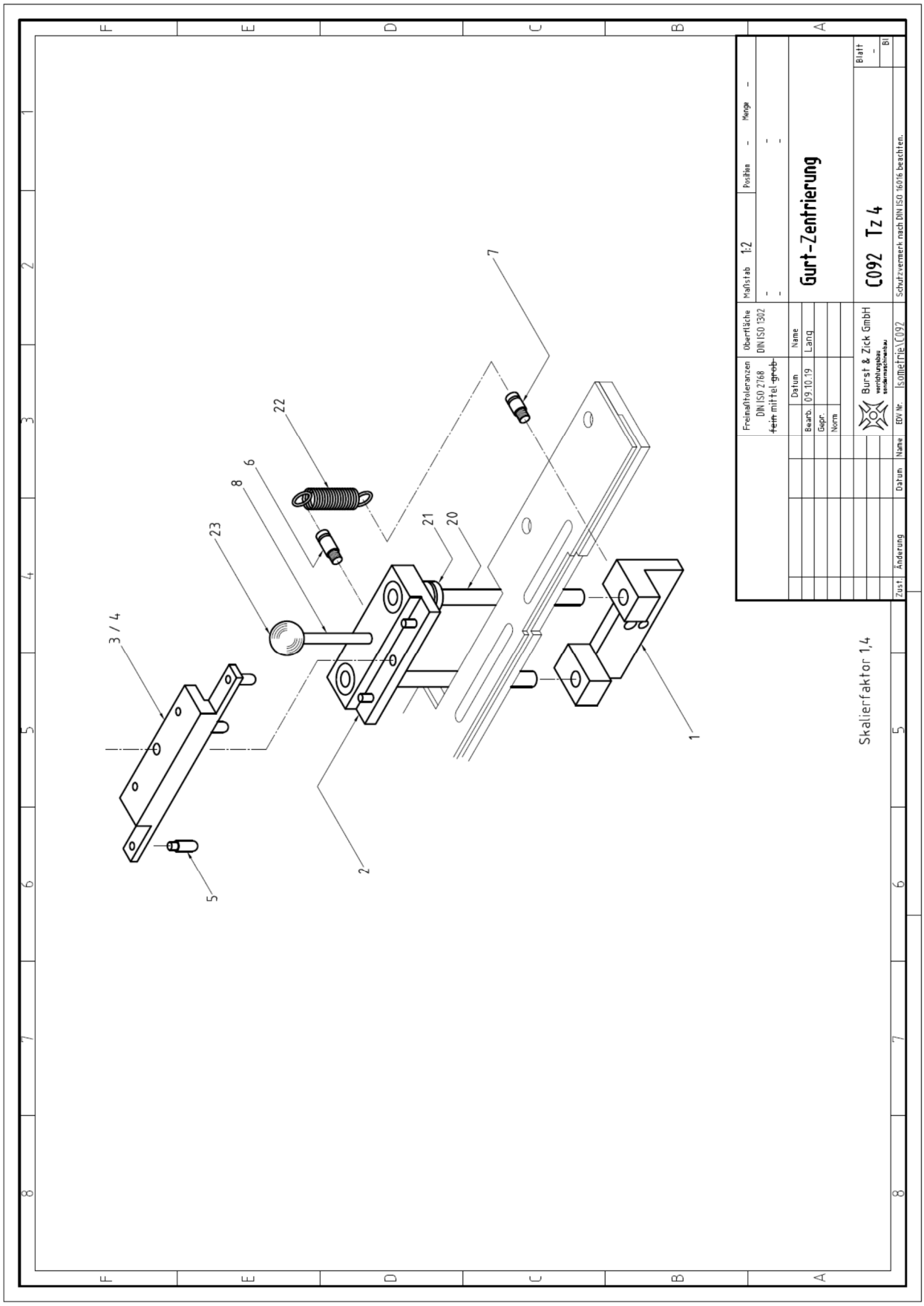
Item	Qty.	Drawing no.	Description	Notes
46	2		Pressure Spring D-199	
47	4		Messing-bushing ∅10 x ∅16 x 20	
48	2		Needle bearing NK 5/10	


Werkzeugbetätigung
C092 Tz 3
Burst & Zick GmbH
Maßstab 1:2,5
Freimaßtoleranzen DIN ISO 2768 fein mittel grob
Oberfläche DIN ISO 1302
Datum 02.10.19
Name Lang
Isometrie\C092
Schutzvermerk nach DIN ISO 16016 beachten.

Tz 4 - Tape-centering

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 4 T. 1	Holder	
2	1	C092 Tz 4 T. 2	Centring, top	
3	1	C092 Tz 4 T. 3	Tape centring	Pitch 12,7 [1)]
4	1	C092 Tz 4 T. 3	Tape centring	Pitch 15 [1)]
5	3	C092 Tz 4 T. 5	Catch	
6	1	C092 Tz 4 T. 6	Spring bolt	
7	1	C092 Tz 4 T. 7	Spring bolt	
8	1	C092 Tz 4 T. 8	Bolt	
20	2		Shaft, hardened ∅6h6 x 36	
21	2		Ball bushing LMU6	
22	1		Tension spring Z-092 I	
23	1		Knob M4 DIN 319	

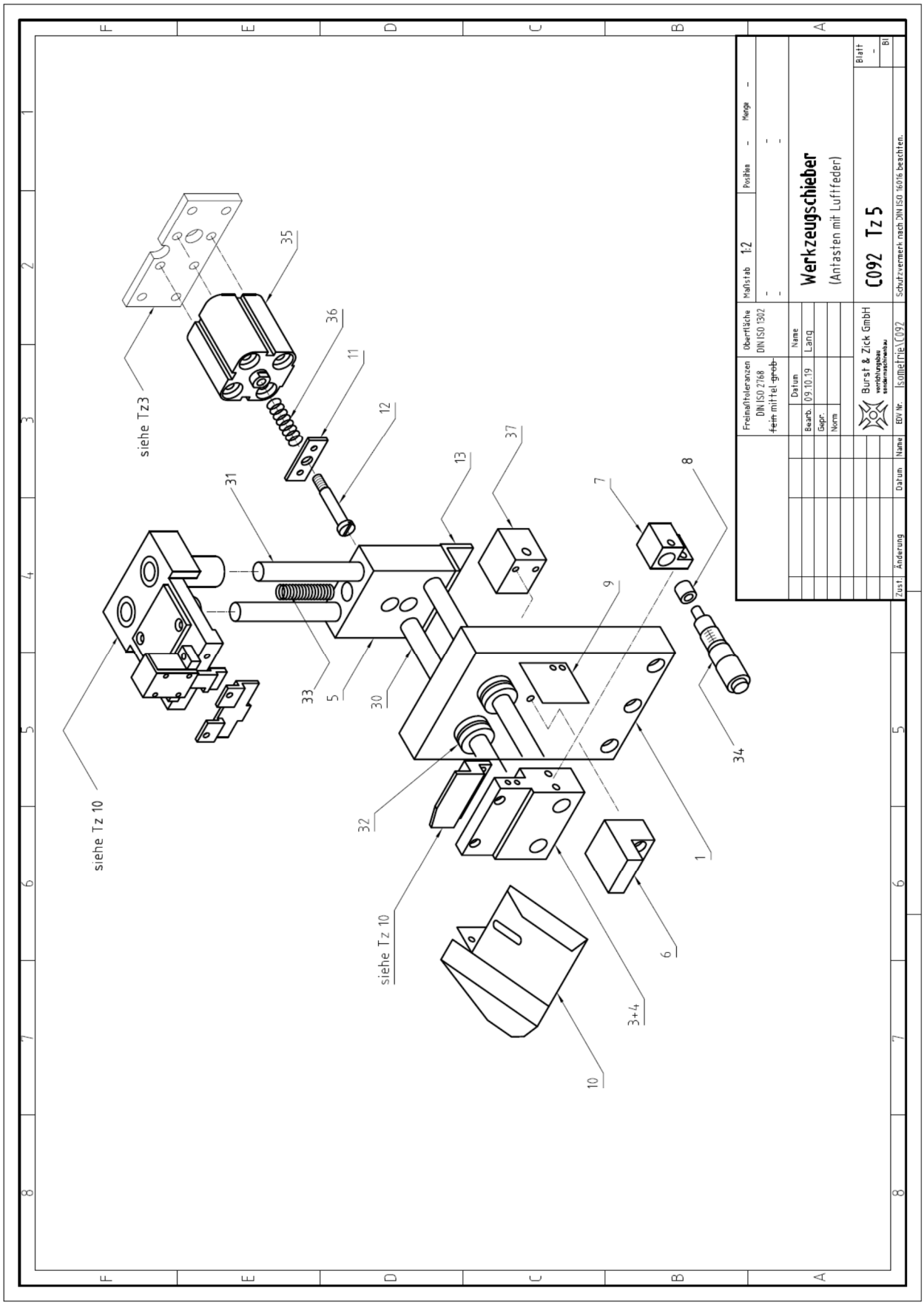
[1)] Optionally as requested


Gurt-Zentrierung
C092 Tz 4
Burst & Zick GmbH
Maßstab 1:2
Positionen
Menge
Freimaßtoleranzen DIN ISO 2768 fein mittel grob
Oberfläche DIN ISO 1302
Datum
Name
Bearb. 09.10.19 Lang
Gepr.
Norm
Zust. Änderung Datum Name
EDV Nr. Isometrie\C092
Schutzvermerk nach DIN ISO 16016 beachten.
Blatt
Skalierfaktor 1,4
3 / 4
5
2
1
23
8
6
22
21
20
7

Tz 5 - Tool slider (Touch Tool)

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 5 T. 1	Bearing plate right	
2	1	C092 Tz 5 T. 2	Bearing plate left	
3	1	C092 Tz 5 T. 3	Tool holder right	
4	1	C092 Tz 5 T. 4	Tool holder left	
5	2	C092 Tz 5 T. 5	Guiding	
6	2	C092 Tz 5 T. 6	Angle	
7	2	C092 Tz 5 T. 7	Holder (for measuring screw)	1)
8	2	C092 Tz 5 T. 8	Pressure piece	
9	1	C092 Tz 5 T. 9	Drop sheet	
10	1	C092 Tz 5 T. 10	Component chute	
11	2	C092 Tz 5 T. 11	Plate	
12	2	C092 Tz 5 T. 12	Bolt	
13	2	C092 Tz 5 T. 13	Stopper	
30	4		Shaft, hardened ∅10h6 x 78	
31	4		Shaft, hardened ∅10h6 x 88	
32	4		Ball bushing LMU10	
33	1		Pressure Spring D-199	
34	2		Micrometer screw	
35	2		Cylinder ADN-20-5-I-P-A	
36	2		Pressure spring D-115H-11	
37	2		Cylinder AEVC-12-10-I-P	

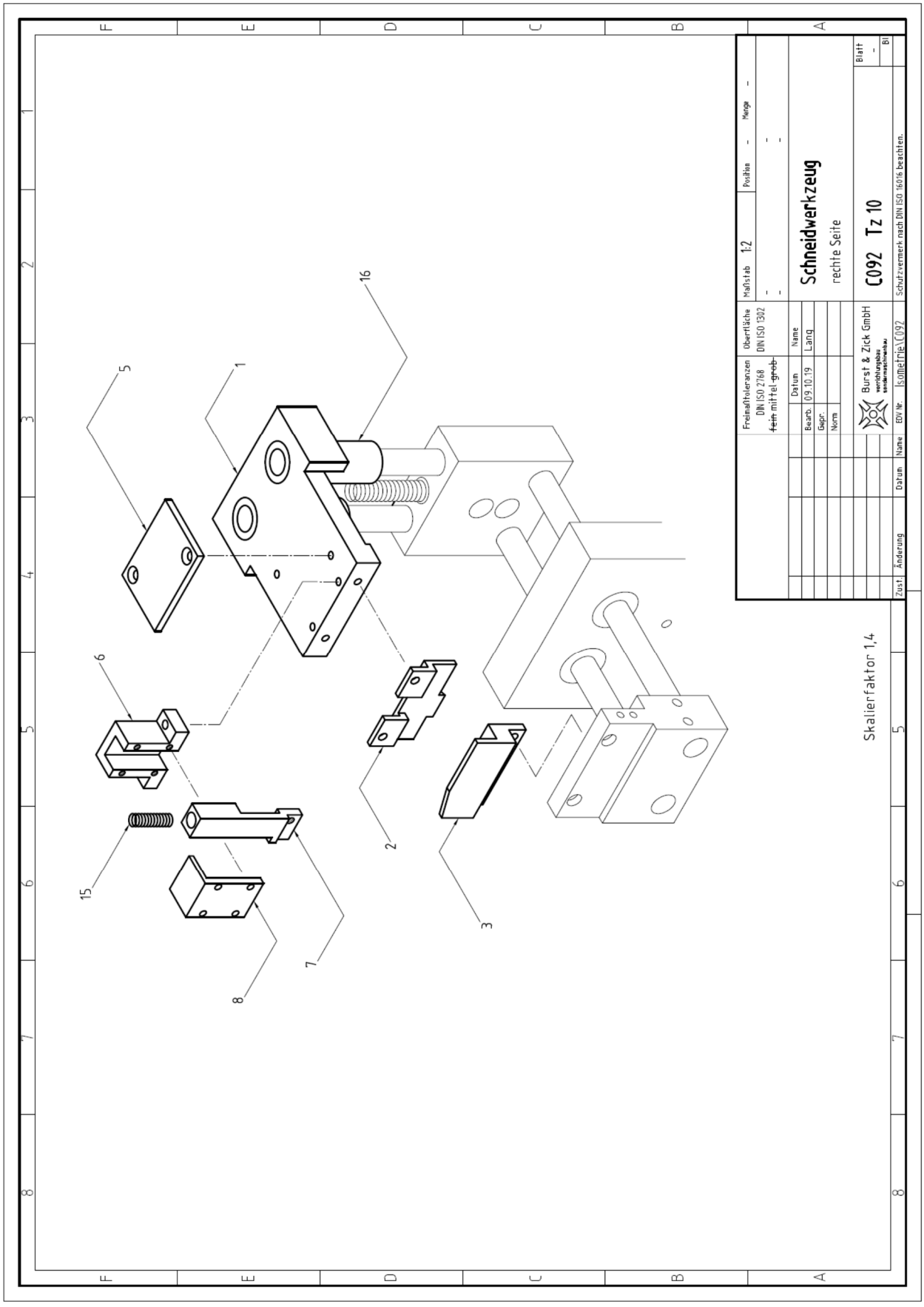
1) **Optional, 1x right side, 1x left side, please specify when ordering!**


Werkzeugschieber
(Antasten mit Luftfeder)
C092 Tz 5
Burst & Zick GmbH
Maßstab 1:2
Position -
Menge -
Freimaßtoleranzen DIN ISO 2768 fein mittel grob
Oberfläche DIN ISO 1302
Datum
Name
Bearb. 09.10.19 Lang
Gepr.
Norm
Zust. Änderung Datum Name
EDV Nr. Isometrie\C092
Schutzvermerk nach DIN ISO 16016 beachten.
Blatt -
Bl
siehe Tz3
siehe Tz 10
siehe Tz 10
35
36
11
12
13
37
31
33
5
30
32
7
8
9
1
6
3+4
10
34

Tz 10 - Cutting tool

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 10 T. 1	Tool holder, right	
2	1	C092 Tz 10 T. 2	Cutting tool, top	
3	1	C092 Tz 10 T. 3	Cutting tool, bottom	
5	1	C092 Tz 10 T. 5	Plate	
6	1	C092 Tz 10 T. 6	Housing for clamping die	
7	1	C092 Tz 10 T. 7	Tool clamping die	
8	1	C092 Tz 10 T. 8	Cover for tool clamping die	
15	1		Pressure spring D-104	
16	2		Bearing bushing ∅10 x ∅16 x 43	

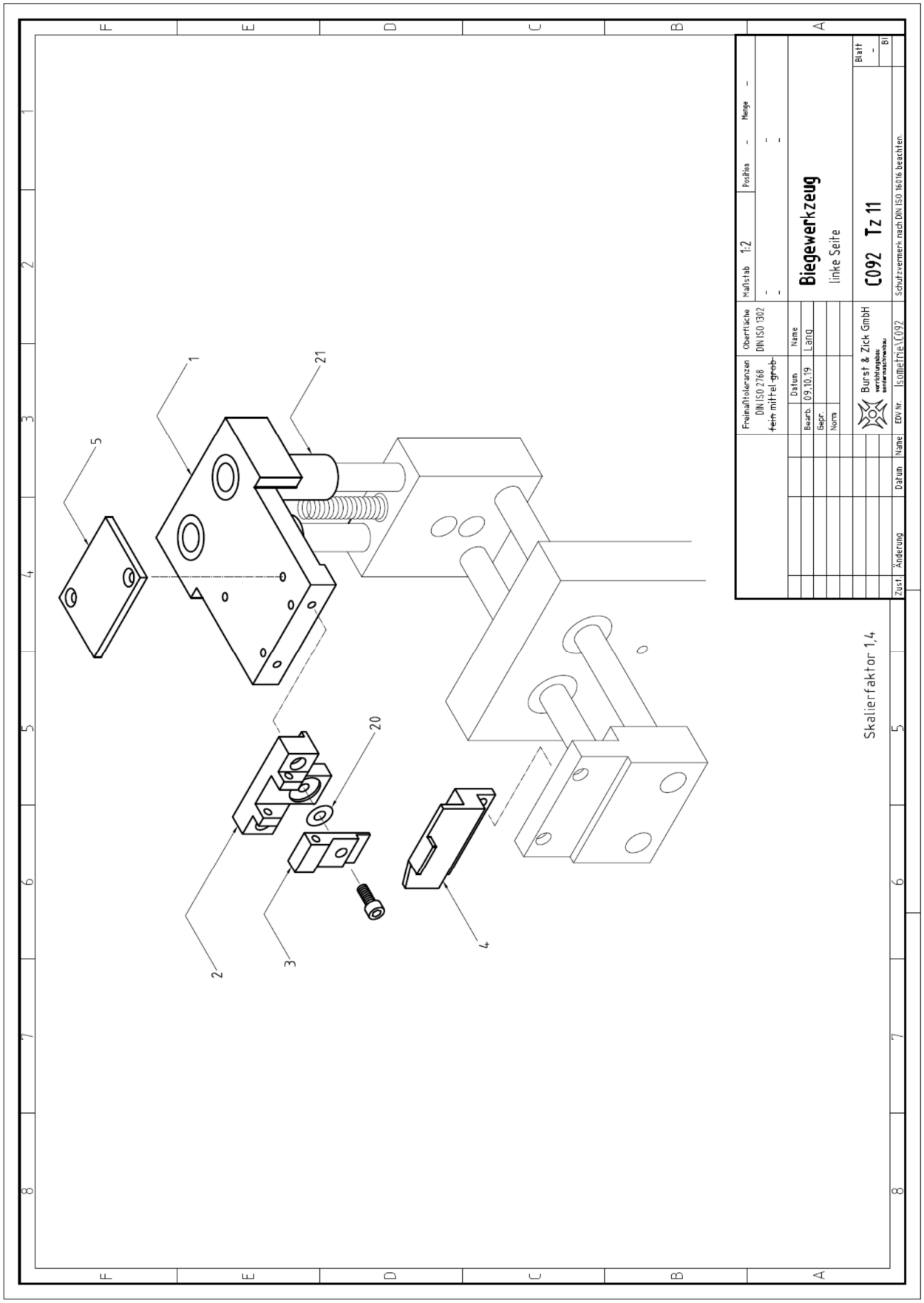
For tool orders please indicate tool number and machine number!


Schneidwerkzeug
rechte Seite
C092 Tz 10
Burst & Zick GmbH
Maßstab 1:2
Position
Menge
Oberfläche DIN ISO 1302
Freimaßtoleranzen DIN ISO 2768 fein mittel grob
Datum
Name
Bearb. 09.10.19 Lang
Gepr.
Norm
Zust. Änderung Datum Name
EDV Nr. Isometrie\C092
Schutzvermerk nach DIN ISO 16016 beachten.
Blatt -
Skalierfaktor 1,4
1
2
3
5
6
7
8
15
16

Tz 11 - Bending tool

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 11 T.1	Tool holder, left	
2	1	C092 Tz 11 T.2	Tool holder, top	(Wzg.005-2-2)
3	1	C092 Tz 11 T.3	Bending stamp, top	(Wzg.005-2-3)
4	1	C092 Tz 11 T.4	Bending tool, bottom	(Wzg.005-2-1)
5	1	C092 Tz 11 T.5	Plate	
20	1		Plate spring	
21	2		Bearing bushing ∅10 x ∅16 x 43	

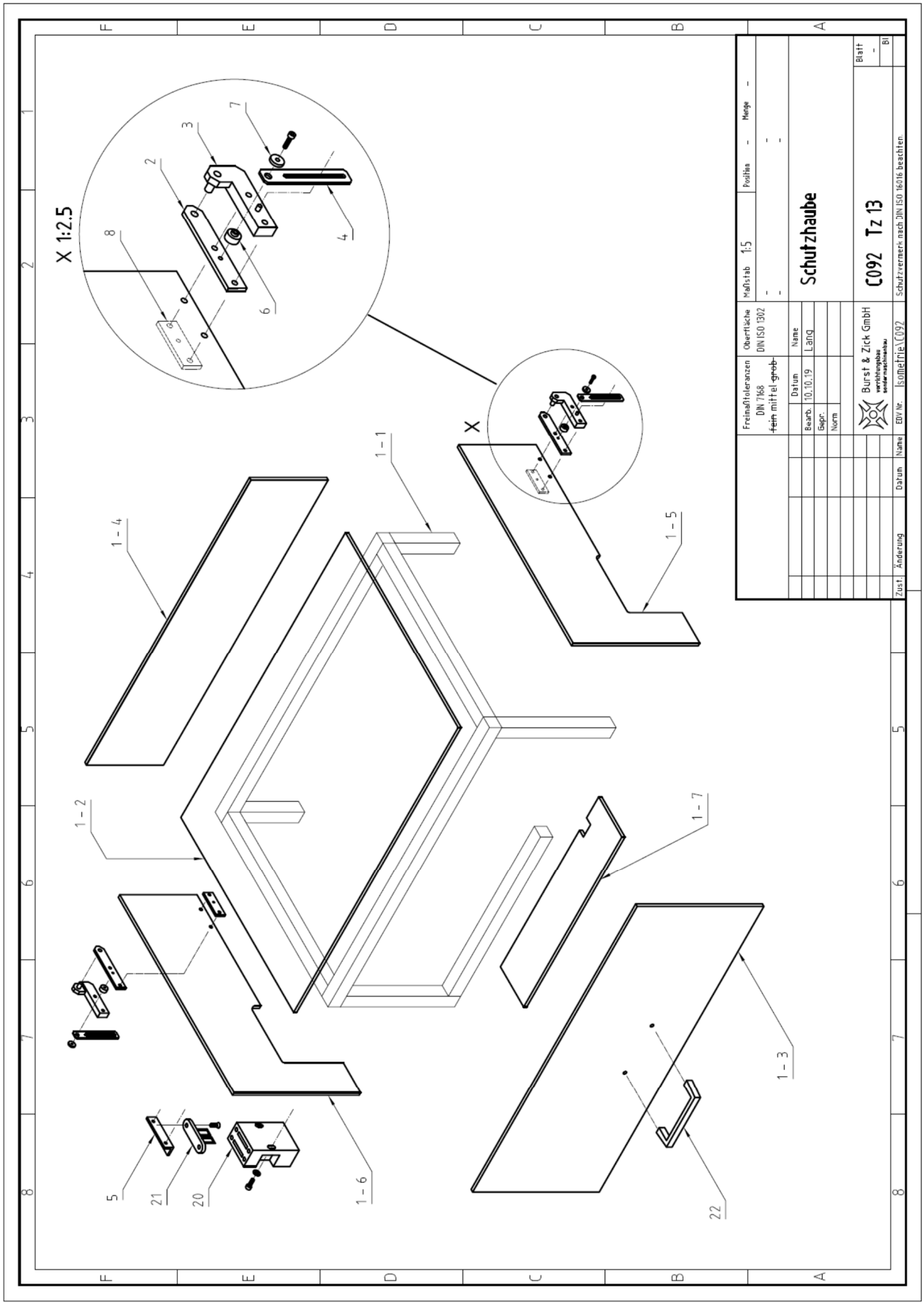
For tool orders please indicate tool number and machine number!


Biegewerkzeug
linke Seite
C092 Tz 11
Burst & Zick GmbH
Maßstab 1:2
Oberfläche DIN ISO 1302
Freimaßtoleranzen DIN ISO 2768 fein mittel grob
Datum
Name
Bearb. 09.10.19 Lang
Gepr.
Norm
Zust. Änderung Datum Name
EDV Nr. Isometrie_C092
Schutzvermerk nach DIN ISO 16016 beachten
Blatt -
Skalierfaktor 1,4
1
2
3
4
5
20
21

Tz 13 - Safety hood

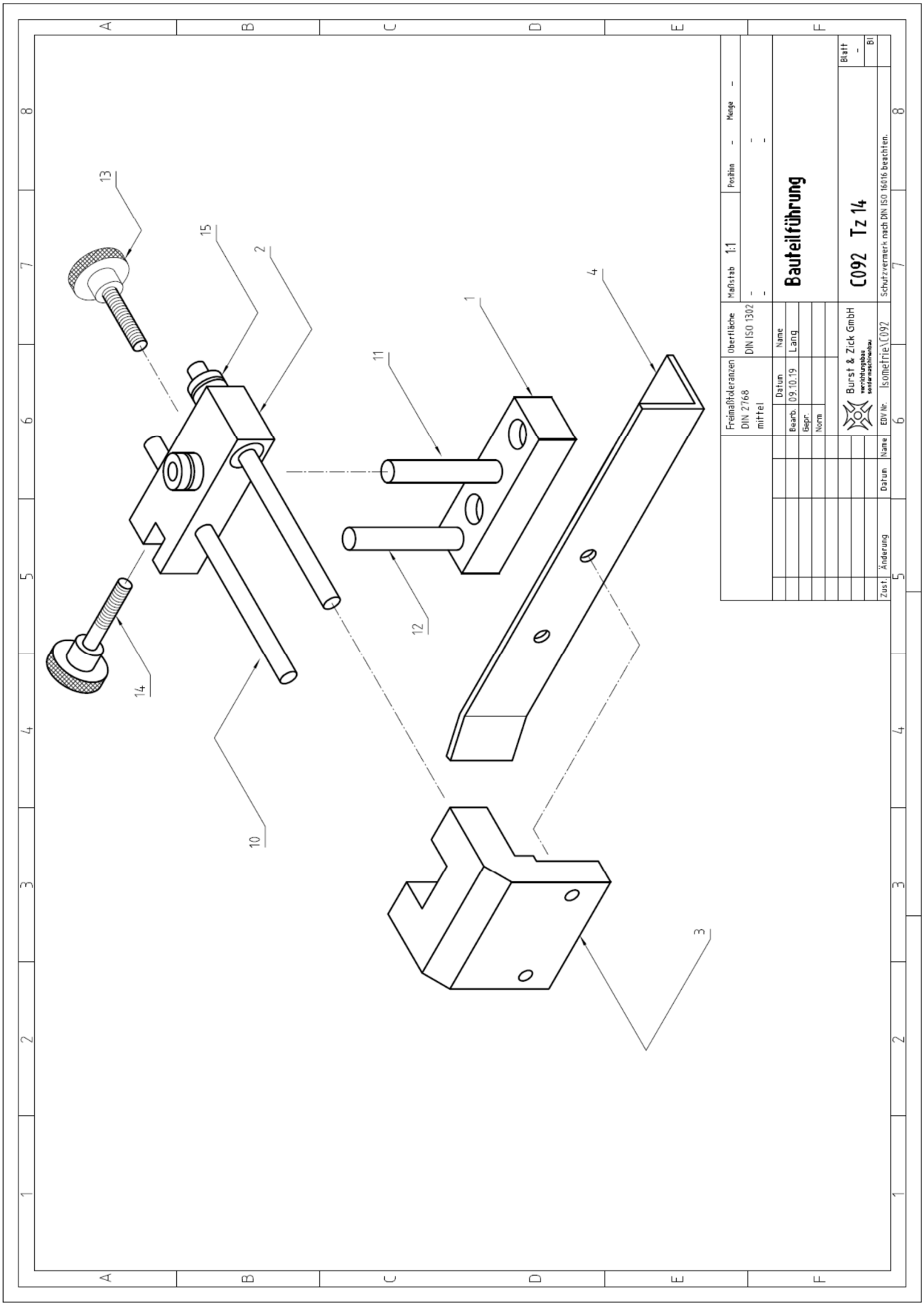
Item	Qty.	Drawing no.	Description.	Notes
1	1	C092 Tz 13 T. 1	Safety hood	
	1	T. 1- 1	Profile frame	
	1	T. 1- 2	Upper panel	
	1	T. 1- 3	Front panel	
	1	T. 1- 4	Rear panel	
	1	T. 1- 5	Side panel, right	
	1	T. 1- 6	Side panel, left	
2	2	C092 Tz 13 T. 2	Hinge	
3	2	C092 Tz 13 T. 3	Hinge	1)
4	2	C092 Tz 13 T. 4	Lift	
5	1	C092 Tz 13 T. 5	Holder	
6	1	C092 Tz 13 T. 6	Bushing	
7	1	C092 Tz 13 T. 7	Distance ring	
8	2	C092 Tz 13 T. 8	Threaded plate	
20	1		Safety switch AZ 16-02 ZVRK	
21	1		Actuator for safety switch	
22	1		Handle, 10501-003	

1) **Optional, 1x right side, 1x left side, please specify when ordering!**


X 1:2.5
X
1 - 1
1 - 2
1 - 3
1 - 4
1 - 5
1 - 6
1 - 7
2
3
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5
6
7
8
20
21
22
Schutzhaube
C092 Tz 13
Burst & Zick GmbH
Maßstab 1:5
Position
Menge
Oberfläche DIN ISO 1302
Freimaßtoleranzen DIN 7168 fein mittel grob
Datum
Name
Bearb. 10.10.19 Lang
Gepr.
Norm
Zust. Änderung Datum Name
EDV Nr. Isolierfrei C092
Schutzvermerk nach DIN ISO 16016 beachten
Blatt -

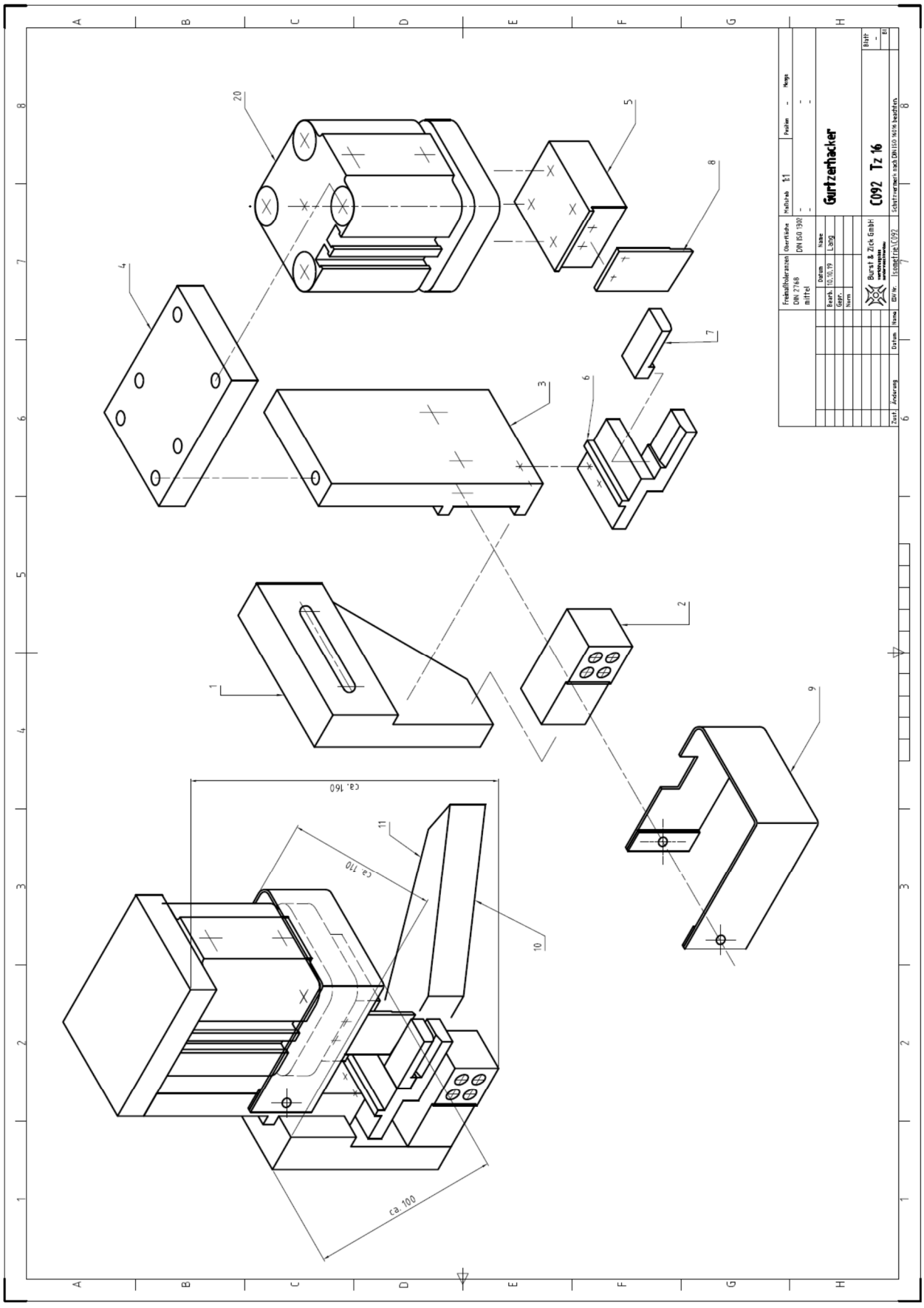
Tz 14 - Component guide

Item	Qty.	Drawing no.	Description	Notes
1	1	C092 Tz 14 T. 1	Bearing	
2	1	C092 Tz 14 T. 2	Guiding	
3	1	C092 Tz 14 T. 3	Holder	
4	1	C092 Tz 14 T. 4	Component guiding	
10	2		Shaft, hardened ∅6h6 x 88	
11	2		Shaft, hardened ∅6h6 x 45	
13	1		Screw M4x10 DIN 464	
14	1		Screw M4x25 DIN 464	
15	2		Ball bushing LMU6	


Bauteilführung
C092 Tz 14
Burst & Zick GmbH
Maßstab 1:1
Oberfläche DIN ISO 1302
Freimaßtoleranzen DIN 2768 mittel
Schutzvermerk nach DIN ISO 16016 beachten.
Isometrie\C092
Datum 09.10.19
Name Lang
Bearb.
Gepr.
Norm
Änderung
Datum
Name
EDV Nr.
Blatt
Bl
Position
Menge
1
2
3
4
10
11
12
13
14
15

Tz 16 - Tape chopper unit (Optional)

Item	Qty.	Drawing no.	Description.	Notes
1	1	C092 Tz 16 T. 1	Plate	
2	1	C092 Tz 16 T. 2	Holder	
3	1	C092 Tz 16 T. 3	Adjustable plate	
4	1	C092 Tz 16 T. 4	Upper blade	
5	1	C092 Tz 16 T. 5	Holder	
6	1	C092 Tz 16 T. 6	Blade bottom	
7	1	C092 Tz 16 T. 7	Guideance	
8	1	C092 Tz 16 T. 8	Blade	
9	1	C092 Tz 16 T. 9	Cover	
10	1	C092 Tz 16 T. 10	Slide lower part	
11	1	C092 Tz 16 T. 11	Slide top	
20	1		Cylinder ADNGF-32-5-P-A	


Gurtzerhacker
C092 Tz 16
Burst & Zick GmbH
ca. 160
ca. 110
ca. 100

Recommended spare parts

Drawing No.	Qty.	Description	Description resp. Drawing No.
C092 Tz 10 T. 2	1	Cutting holder top	C092 Tz 10 T. 2
C092 Tz 10 T. 3	1	Cutting holder bottom	C092 Tz 10 T. 3
	1	Pressure spring	D-104
C092 Tz 11 T. 3	1	Bending stamp	C092 Tz 11 T. 3
C092 Tz 11 T. 4	1	Bending tool bottom	C092 Tz 11 T. 4

For tool orders please indicate tool number and machine number!