

Lamellar Grinding Machines

T-20/T-25

11/2012

Instruction Manual



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1. General Information

Warranty information and how to use the Lamellar Grinding Machines T-20/25

The user manual must be read carefully prior to operate the machine.

Before bringing the machine into service it is essential to check:
Is the machine placed safely? Is the direction of the rotation correct?
The machine must only be connected by a qualified electrician!

1.1 Use and maintenance of the Lamellar Grinding Machines T-20/25

- In the event of unauthorized electrical installation, faulty operation, improper use according to instructions, structural alterations, removal of protective equipment, use of Non-ORIGINAL spare parts and accessories, we disclaim any liability. The user employs our machines at own risk and peril in such cases. If any damage occurs because of this, the user bears full responsibility himself. -
- Do use only GENUINE spare parts and accessories!
- Defects and damages caused by natural wear and tear do not constitute any claims against Geiselsöder GS-Schleiftechnik.
- The operator has to be carefully instructed to follow this manual in the operation and maintenance of T-2 w / d Lamellar Grinding Machines.
- Geiselsöder GS-Schleiftechnik machines fully comply with accident prevention regulations.

Pay attention to instructions and memorize them!

In line with our warranty conditions we grant warranty for 24 months for the Geiselsöder GS-Schleiftechnik Lamellar Grinding Machines T-20/25. The illustrated presentations of the machines may, according to country-specific regulations and as a result of technical progress of the machines supplied, slightly differ. This however is of no influence to our manual.

1.2 Description and Features

The T-20/25 Lamellar Grinding Machines serve to sharpen cutting tools such as:

- Cutting knife
- Cutter knife
- boning Knife
- Cleaver

in the butcher and catering area



1.3 Technical manual

Table-top devices of the latest state-of-the art developments for modern and economic tool grinding

-Space-saving and closed construction

Design according to the requirements of international safety regulations

-Impact-resistant aluminum housing

-High performance drive with optimum disc speed

-Lamellar grinding disc

Polishing disc for honing

Features

-Modern design

-Long economic life-time

-Time saving due to a fast simple operation and easy cleaning

-Low injury risk due to a highly effective protection against accidents

Technical Data:	T20	T25
Dimension HxWxD	250 x 340 x 290	300 x 480 x 300
Power Supply:	Single phase alternating current	Three phase alternating current
Voltage/Frequency	230 [1~50Hz]	400 [3~50Hz]
Power [W]	550	2200
Input Power A	3.5	4.5
Fuse Protection A	16	3x16
Rpm	2900	2900
Lamellar grinding disc in mm	200 x 50 x 16	250 x 50 x 20
Polishing Disc in mm	200 x 35 x 12	250 x 50 x 14
Utility Space in mm	340 x 240	450x400
Weight in kg	12	28

2. Start-up

2.1 Unpacking and checking of the contents

The following items belong to the scope of delivery:

- Lamellar grinding disc
- Polishing disc
- Polishing paste
- Manual

2.2 Installation

The Lamellar Grinding Machines T-20/25 must be installed in a dry working area only.

You have to provide:

- a sufficient work space for operation and cleaning
- a foot-sure floor for the operator
- a smooth, even working surface

2.3 Electrical connection

- Compare the power supply with type plate details
- Electrical socket must correspond to VDE regulations* and be earthed
- the installation of the Lamellar grinding machines must be made by a qualified electrician , as the rotation direction of the machines must be checked.
Switch on machines only when ready for operation!!

2.4 Rotation direction check-up

- Switch on the grinding machine
- Grinding disc must rotate in direction of the marked arrow

*(VDE mark is the German Association for Electric and Electronic Technologies)

3. Cleaning

3.1 Preparation for cleaning

For cleaning the Lamellar Grinding Machines T-20/25 must be unplugged from the electrical power supply (unplug from power plug).

3.2 Cleaning instructions

The Lamellar Grinding Machines T-20/25 must not be cleaned with a high-pressure cleaner or be put into water!

The polishing honing disc must not come into contact with water.
Clean the dismantled parts of the Grinding Machines with a brush or a rag.

3.3 Get grinding machine ready-to-operate

Install the cleaned parts in reverse order.

4. Operation

4.1 Safety Instructions!

Prior to working with the Grinding machines T-20/25, the following safety instructions must be observed:

- Focus on your work
- Do not talk to and with people
- Do not touch the grinding area
- Keep working area clean and dry / safe footing

Hold the cutting-edge of the tools always in direction of the discs, **see arrow**,

- For grinding and polishing always wear safety goggles!

Injuries are possible because of free-running discs. These cannot be covered due to convex grinding.

Besides, when the machines are used carelessly, minor injuries can happen, because of the unused but freely revolving abrasive disc on the opposite side.

ATTENTION!

Instead of the lamellar grinding disc, the polishing or honing disc, or a felt disc, no ceramic or resin bonded abrasive discs or any tools, other than provided by us, must be used.

The legal accident prevention regulations must be observed!

4.2 Sharpening of tools with the lamellar grinding disc

Pre-grinding (changes in shape of the cutting edge) and finest regrinding are achieved if the tool is moved in a simple alternating motion in a longitudinal direction (somewhat parallel to the motor axis) and by varying the grinding pressure. The lamellar disc adapts itself automatically to the cutting edge of the tool, in way, that if required, the existing blade shape is fully maintained. Enhanced cooling of the lamellar disc prevents tarnishing of the tools.

IMPORTANT!

The tool cutting edge must be always held in the rotation direction of the abrasive disc. As soon as a fine burr is formed on the cutting edge, the grinding operation has to be terminated.

4.3 Honing of the tools

The polishing, honing or felt disc respectively, fixed at the left side of the machine is used for honing. Only this way the tools get their fine, burr-free cutting edge.



IMPORTANT!!

Hold the cutting edge always in rotation direction of the disc.
The cutting tools have to be cleaned after grinding and honing!

5. Maintenance/Exchange of wearing parts

5.1 Maintenance

Apart from cleaning at times, the machine does not need any greasing or maintenance. The ball-bearings are sufficiently supplied with fat lasting for several years.

5.2 To assemble and/or disassemble the lamellar grinding disc, the polishing and honing disc

- Disengage the Hexagonal Nut SW 22
- Remove the polishing-honing disc, the lamellar grinding disc respectively and the
- safety washer from the grinding shaft.



EU conformity declaration

According to the EC

**EC - Machinery Directive 2006/42/EC
for the
Knife Grinder T 20 from Serial No.: 20100001 going**

The Company: GS Schleiftechnik, Leyher Str 61, 90431 Nürnberg

Herewith declares as manufacturer of sole responsibility, that
the knife grinder **T - 20** is consistent with the requirements of the said Directive above.

The following harmonized standards were applied:
DIN EN ISO 12100-1:2003, DIN EN ISO 12100-2: 2003, Safety of
machinery,
VDE 0100, VDE 0701/0702

For changes on the knife grinder **T - 20**, without consulting us
this declaration loses validity.

GS-Schleiftechnik stocks a complete technical documentation ready for examination.

The manual belonging to this machine is available in its original version.

The conformity for the knife grinder T - 20 is ensured.

D-90431 Nürnberg, 01.11.2012

GS-Schleiftechnik
Geschäftsleitung



EU conformity declaration

According to the EC

**EC - Machinery Directive 2006/42/EC
for the
Knife Grinder T 25 from Serial No.: 20100001 going**

The Company: GS Schleiftechnik, Leyher Str 61, 90431 Nürnberg

Herewith declares as manufacturer of sole responsibility, that
the knife grinder **T - 25** is consistent with the requirements of the said Directive above.

The following harmonized standards were applied:
DIN EN ISO 12100-1:2003, DIN EN ISO12100-2: 2003, Safety of
machinery,
VDE 0100, VDE 0701/0702

For changes on the knife grinder **T - 25**, without consulting us
this declaration loses validity.

GS-Schleiftechnik stocks a complete technical documentation ready for examination.

The manual belonging to this machine is available in its original version.

The Conformity for the knife grinder T - 25 is ensured.

D-90431 Nürnberg, 01.11.2012

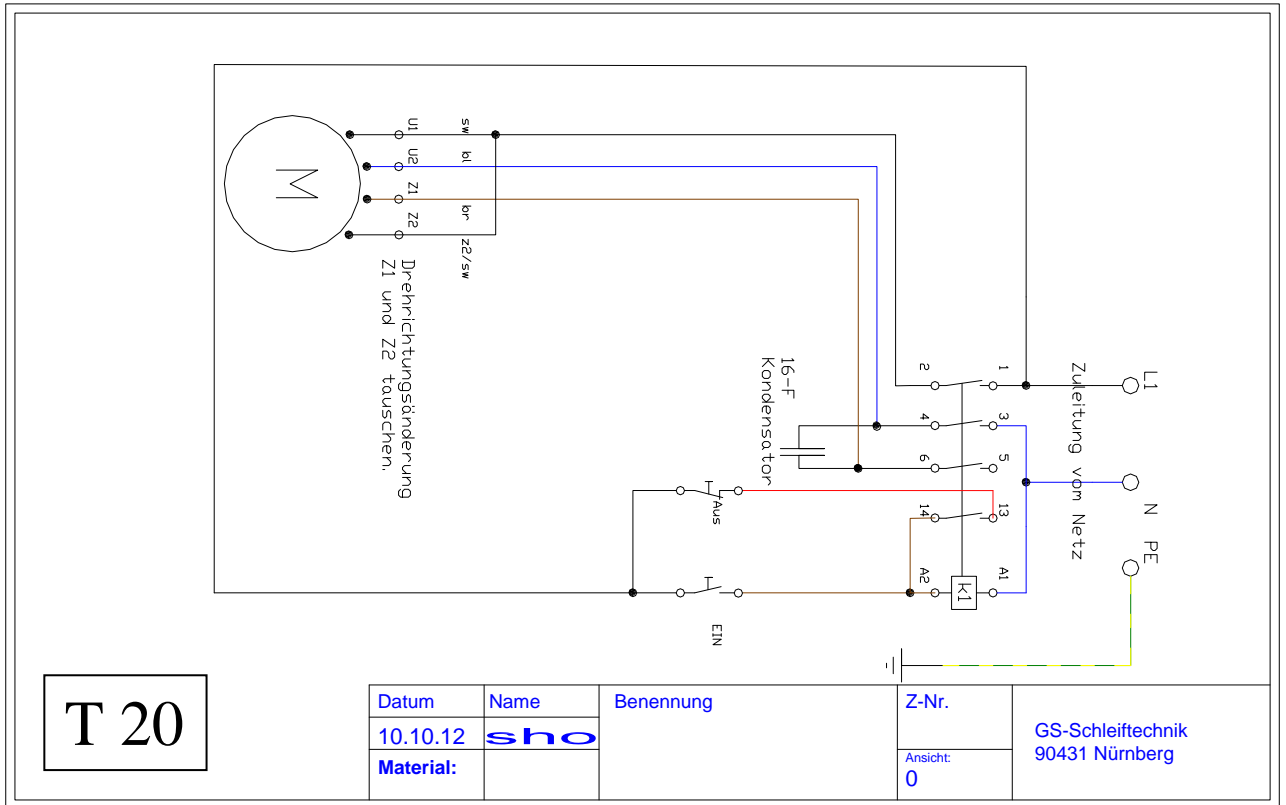
GS-Schleiftechnik
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Part list

Item		Specification T-20	Serial no.:
2		Side Part left	GS200-2-2
1		Bottom	GS200-2-2
1		Cover	GS200-6-2
2		Protection inside	
2		Protection outside	
1		Dirt Trap	
2		Welding Work Cover/Lid	
2		Safety Washer for polishing disc	12 691 007 001
1		Nut M 12 for Polishing Disc	
1		Clamping Flange for Lamellar Disc inside	
1		Clamping Flange for Lamellar Disc outside	
1		Nut M 16 left for Lamellar disc	
4		Rubber feet red	
1		Motor EMG EKF71	
1		Polishing Disc 200x35x12	25 250 501 410
1		Lamellar Disc 200x50x16	27 200 351 400
1		High Polish Honing Paste green	
1		Type Label	
1		Instruction Plate Rotation Direction	
2		Rotation Direction Arrow	
1		Button	
1		Contactora	
1		Connection Cable	
1		Strain relief	

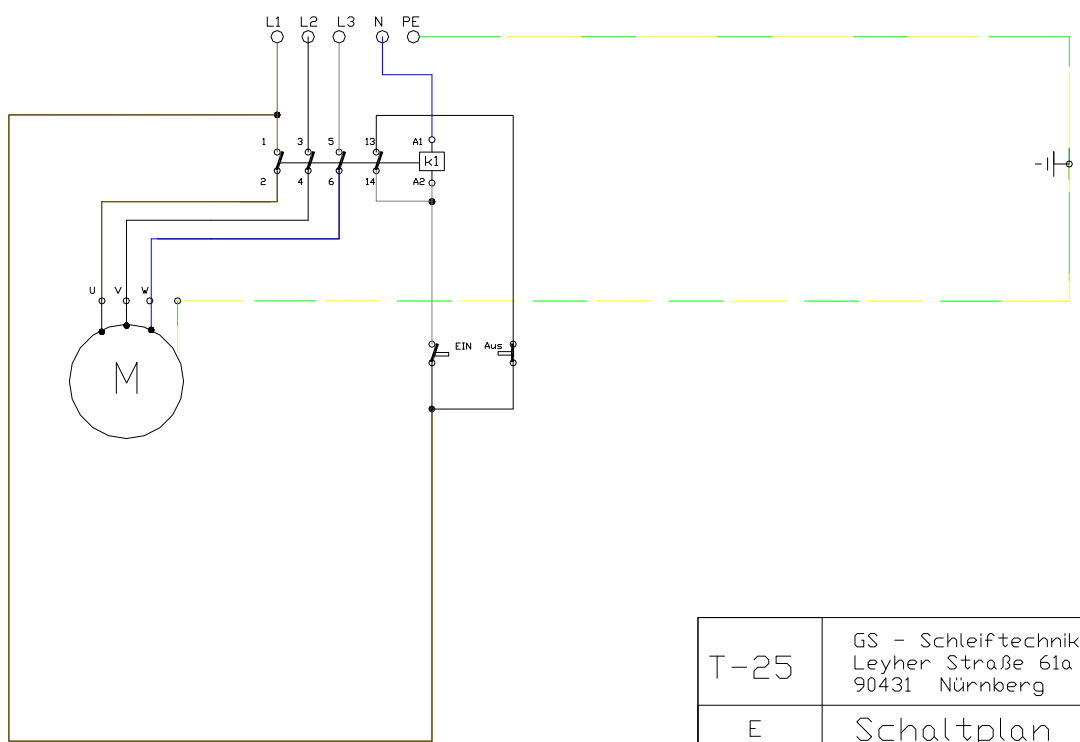
Part List

	Item	Specification T-25	Serial No.:
1	1	Basic Housing	11 400 250 502
2			
3	1	Engine Console	11 225 300 300
4	1	Cover Grinding Motor	11 225 300 310
5	1	Bottom Cover Metal Plate	11 225 332 001
6	6	Rubber Buffer	12 20 25 6 18
13			
14			
15	2	Safety Washer for Polishing Disc	12 691 007 001
16	1	Nut M 14 for Polishing Disc	18 093 414 001
17	1	Clamping Flange for Lamellar disc inside	12 225 300 001
18	1	Clamping Flange for Lamella disc outside	12 225 300 002
19	1	Nut M 20 left for Lamellar disc	18 093 414 002
20	2	Cover for Polishing Disc	11 225 320 000
21	T 20	Lid for Polishing Disc cover	11 225 300 251
22			
23	4	Welding Work Cover/Lid	
24			
25			
26	4	Rubber feet red	12 482 530 101
27			
28			
29	1	Motor Type : DKF 80 G	14 225 330 030
30			
35			
36	1	Switch ON/Off A 105/6.026	15 132 253 000
37	1	2 m Connection Cable 2m 4x1,5 mm ² CEE-Plug	15 114 152 700
38	1	PG 11 Cable Gland with Bend Protection	15 141 110 601
39	1	Nut PG 11 for Cable Gland	15 141 116 900
40			
41			
42			
43			
44			
45	1	Polishing- and Honing Disc 250x50x14	27 200 352 000
46	1	Lamellar Disc 250x50x20 (grain size of disc 240)	25 250 502 010
47	1	High Polishing Honing paste green	29 100 000 000
48	1	Type Plate	
49	1	Instruction Plate Rotation Direction	12 225 330 031
50	2	Rotation Direction Arrows	



T 20

Datum	Name	Benennung	Z-Nr.	GS-Schleiftechnik 90431 Nürnberg
10.10.12	sho		Ansicht: 0	
Material:				



T-25	GS - Schleiftechnik Leyher Straße 61a 90431 Nürnberg	
E	Schaltplan	
08.10.2012		E-Plan_001
gez. SHD	Maßstab	Artikelnummer