

Knife grinding machine

K – 20 w

11/2016

Instructions for use



GS-Schleiftechnik. Am Kiebitzengraben 4, 91315 Höchstadt
Phone (++49) 9193-5018696 Fax (++49) 9193-5018698 e-mail: info@gs-de.eu

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Declaration of Guarantee

The K-20 knife grinding machine is covered by a 12-month guarantee from the date of delivery provided that the machine is used in single-shift operation. The guarantee covers the replacement, free of charge, of damaged or defective parts. Natural wear and tear, damage caused by grossly negligent treatment or resulting from incorrect use and changes made by the user on his own initiative are not covered by the guarantee.

Safety

A.1 The danger of the machine

The knife grinding machine is equipped with protective devices and has been subjected to safety inspection and approval. Misuse or incorrect operation can nevertheless endanger the life and safety of the operator, the machine and the owner's other assets and the efficient functioning of the machine.

All persons entrusted with the assembly, start-up, operation and maintenance of the machine must read and observe the following notes carefully. Your safety is a stake.

A.2 Proper use

The knife grinding machine is designed exclusively for grinding knives in the food industry.

For safety reasons, no changes or alterations to the machine may be made without consulting us.

The manufacturer/supplier accepts no liability for damage resulting from incorrect use. The risk is borne entirely by the user.

The K-20 knife grinding machine can be dangerous:

If it is operated by untrained personnel

or used for a purpose other than intended by the manufacturer.

Proper use includes observing the instructions for use and the care and maintenance guidelines.

A.3 Emission

The A-evaluated equivalent constant sound pressure level of this machine is under 70 db (A). No ear protection is necessary.

A.4 Sources of danger



The knife grinding machine must be unplugged from the mains before commencing cleaning and maintenance work. Never remove safety devices or change the machine in such a way as to disconnect them.

Changes and repairs to electrical parts must be carried out by a qualified electrician.

Only original spare parts from GS-Schleiftechnik may be used.

A.5 The workplace

| | |
|-----------|---------------------|
| Workplace | in front of machine |
| Position | standing |

A.6 Permitted operators

The owner of the K-20 knife grinding machine must give the operator access to the operating instructions and assure himself that he has read and understood them.

The owner and operator must ensure that only trained and authorized persons operate the machine.

The machine may be operated and maintained by trained and authorized persons only.

A.7 Personal protective equipment

No special protective equipment is necessary for operation.

A.8 Safety measures at assembly location

The K-20 knife grinding machine must stand firmly on a flat and steady work table.

The K-20 knife grinding machine is suitable for use in damp rooms.

You should ensure through appropriate instructions and checks that the surroundings of the machine are always clean and tidy.




A.9 Emergency measures

In an emergency the K-20 knife grinding machine should be disconnected from the power supply.

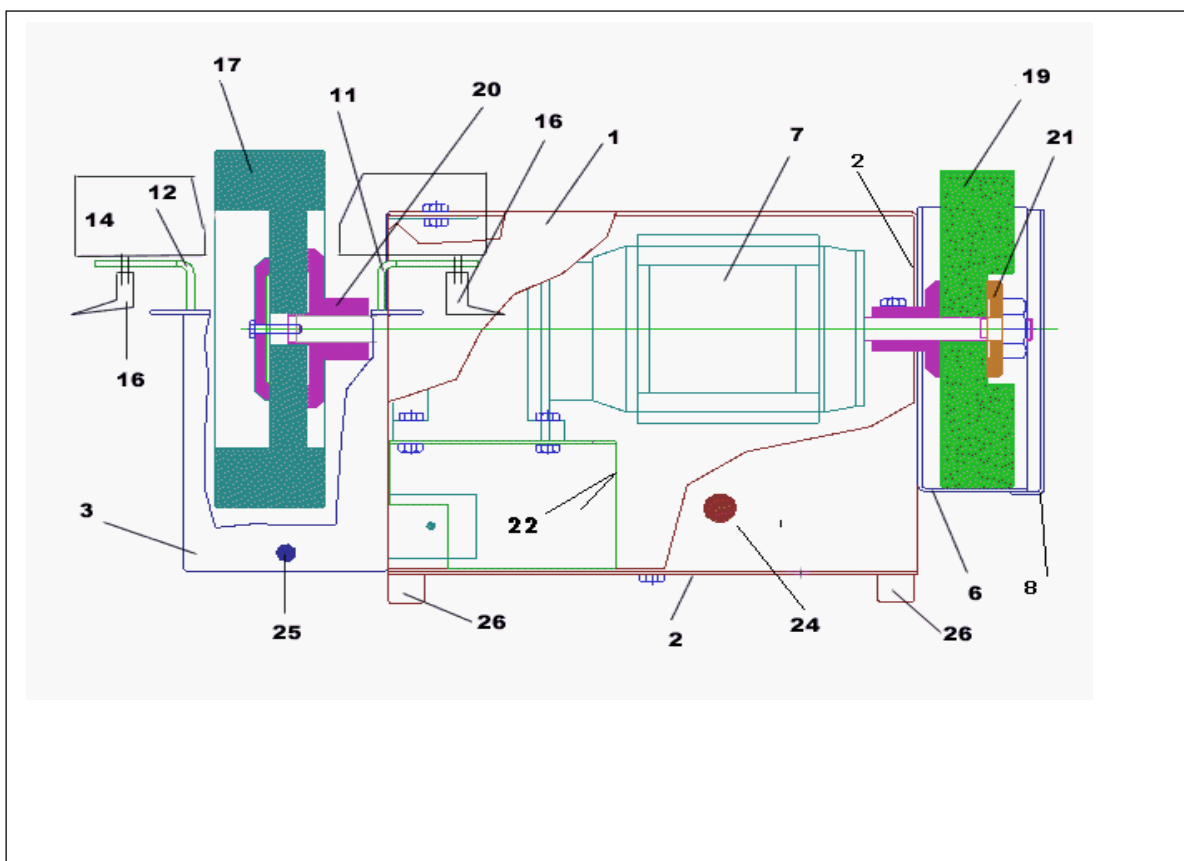
The machine must be stopped immediately if it or its operation change in any way relevant to safety. The disturbance should be reported to the appropriate person/office.

A.10 Safety notes in these instructions

Safety notes in these instructions are indicated as follows:

| Note: | Warning! | Danger |
|---|---|---|
|  |  |  |
| Special notes concerning the economical use of the machine | Special notes or instructions for damage prevention | Notes or instructions for the preventions of injury to persons or extensive material damage |

1. Start-up



B.1 Operating elements

| | |
|--------------------------|--------------------------------|
| 1 housing | 24 ON/OFF switch |
| 3 water tank | 17 grinding disk |
| 14 grinding angle guide | 19 polishing and whetting disk |
| 16 clamping lever | |
| 25 water removal brushes | |

B.2 Technical data

| | |
|------------------------|------------------|
| Power supply | 230V 1 Ph 1,5 A |
| Housing and water tank | stainless steel |
| width x height x depth | 700 x 400 x 500 |
| Grinding disk | 225 x 60 x 20 mm |
| Polishing wheel | 250 x 50 x 14 mm |
| Weight | 35 kg |

Warning!



The knife grinding machine must be unplugged from the mains before commencing cleaning and maintenance work.

Never remove safety devices or change the machine in such a way as to disconnect them.

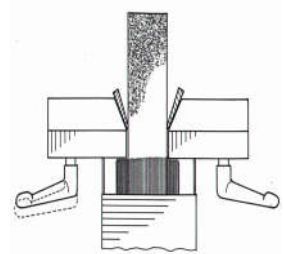
Only original spare parts from GS-Schleiftechnik may be used.

B.3 Machine assembly and connection

Place the grinding machine on a firm, flat base. The ventilation openings in the base must not be covered. Connect the machine using a 16A fused 230V rotary current plug. Ensure that the direction of rotation is correct (arrow)! Changes may be made by a qualified electrician only. Fill the water tank with about 10 cm of water.

B.4 Setting the grinding angle guides

After loosening the clamping lever push the grinding angle guides towards the grinding disks in such a way that there is a gap of about 1/2 mm. Now tighten the clamping lever again. You can turn the clamping lever by pulling it down without loosening the screw connection.



B.5 Changing the grindstone

Remove the grinding angle guides. Hold the grindstone with one hand and loosen the straining screw in the direction of rotation of the grindstone using a size 8 spanner. The left-hand screw has a right-hand thread. Remove the screw and the flange. You can now remove the grindstone from the side. It is assembled in the reverse order. Align the grindstone by knocking it gently with a plastic hammer or a piece of wood before tightening the straining screw.

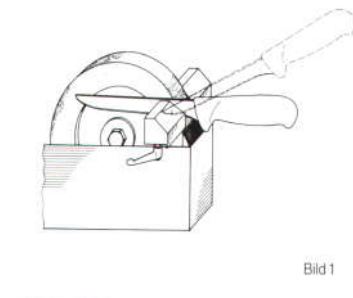
B.6 Changing the polishing and wheetting disk

Hold the polishing disk with your hand and loosen the adjusting nut (left-hand thread) with a size 22 spanner in the direction of rotation of the polishing and wheetting disk. Remove nut and flange. You can now remove the disk. The new disk is assembled in reverse order.

2. Method of use

C.1 Grinding

Before grinding, clean the knife to remove grease and other residues. Place the knife in the grinding angle guide and push it to and fro along the cutting profile with gentle pressure. Be careful to make sure that the knife is lying correctly in the grinding angle guide to ensure even grinding. Grind the knife from left and right until you have an edge right along the blade. It will take some time to achieve an even edge on an old, blunt knife. The hardness of the knife is also important for the grinding time.

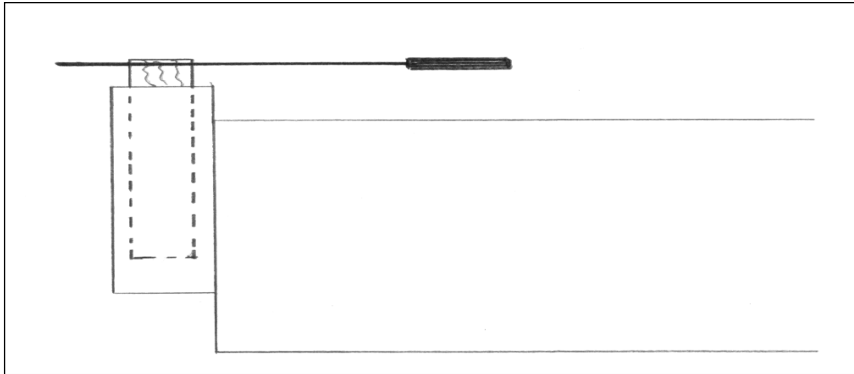


Caution!

Pay attention to operating direction before use and hold blade in direction of arrow only

C.2 Polishing and whetting

When polishing and whetting the blade the knife is moved horizontally over the polishing disk. This should be done alternatively for both sides.



D. Cleaning and maintenance

D.1 Cleaning

If, in spite of previous cleaning, the knife have deposited grease on the grindstone, add a cleaning agent to the water which dissolves grease .

The water tank should be cleaned from time to time to remove dust.

Warning!



The knife grinding machine must be unplugged from the mains before commencing cleaning and maintenance work. Never remove safety devices or change the machine so as to disconnect them. Changes and repairs to electrical parts must be carried out by a qualified electrician. Only original spare parts from GS-Schleiftechnik may be used.

D.2 Maintenance

The grinding machine requires absolutely no maintenance. In the unlikely event of your machine being defective, please contact our after-sales service.

D.3 Permitted cleaning agents

The agents and processes normally used for cleaning and disinfecting in the food industry should be used.

Legally permitted cleaning agents only should be used.

Statement of **CE** conformity

In accordance with the EC Guidelines for Machines 98/37 EG, appendix IIA,
for the
K - 20 knife grinding machine

GS-Schleiftechnik
Am Kiebitzengraben 4
D91315 Höchststadt
Germany

Fon: ++49 (0)9193 5018696

Fax: ++49 (0)9193-5018698 .

States, as manufacturer and sole responsible party, that
the K-20 knife grinding machine
is in compliance with the requirements of the above guideline.

The following harmonised norms have been applied:
DIN EN ISO 12100-1:2003 ; DIN EN ISO 12100-2:2003 Safety for Machines
DIN EN 60204-1:1997, Safety Clearances

In the event of unauthorised alterations to the **K - 20** knife grinding machine,
this statement
shall become invalid.

GS-Schleiftechnik can provide the full technical documentation for
inspection.

The original version of the machine operating manual is also available.

The conformity of the K-20 knife grinding machine is ensured.

D-90431 Nürnberg, 06.11.2015

Management.

GS-Schleiftechnik



Management.

**The conformity of the
K-20 knife grinding
machine is ensured.**

D.4 List of spare parts

| Part | Designation | Order No. for K-20 | No. |
|-------------|--|---------------------------|------------|
| 1 | Part housing | 11225000000 | 1 |
| 2 | Base plate | 11225222530 | 1 |
| 3 | Water tank | 11225330032 | 1 |
| 6 | Protection for polishing and whetting disk, complete | 11225320000 | 1 |
| 7 | Motor, 230V G71 f, | 14225000000 | 1 |
| 11 | Grinding angle mount, right | 11225311000 | 1 |
| 12 | Grinding angle mount, left | 11225310000 | 1 |
| 13 | Water removal brush | 12225320000 | 1 |
| 14 | Grinding angle guide right | 12225141000 | 1 |
| 15 | Grinding angle guide left | 12225140000 | 1 |
| 16 | Clamping lever | 12482560000 | 2 |
| 17 | Grinding disk | 20225602024 | 1 |
| 19 | Polishing and wheeting disk | 12225300680 | 1 |
| 20 | Flange for grinding disk | 20225902008 | 1 |
| 21 | Flange for polishing disk | 12225300680 | 2 |
| 24 | ON/OFF switch | 15132253001 | 1 |
| 25 | Water run-off stopper | 12170225000 | 1 |
| 26 | Rubber foot | 12482530101 | 4 |
| 29 | Polishing and wheeting disk | 272505014 | 1 |
| 30 | High gloss wheeting paste | 29100000000 | 1 |