

Originalfassung

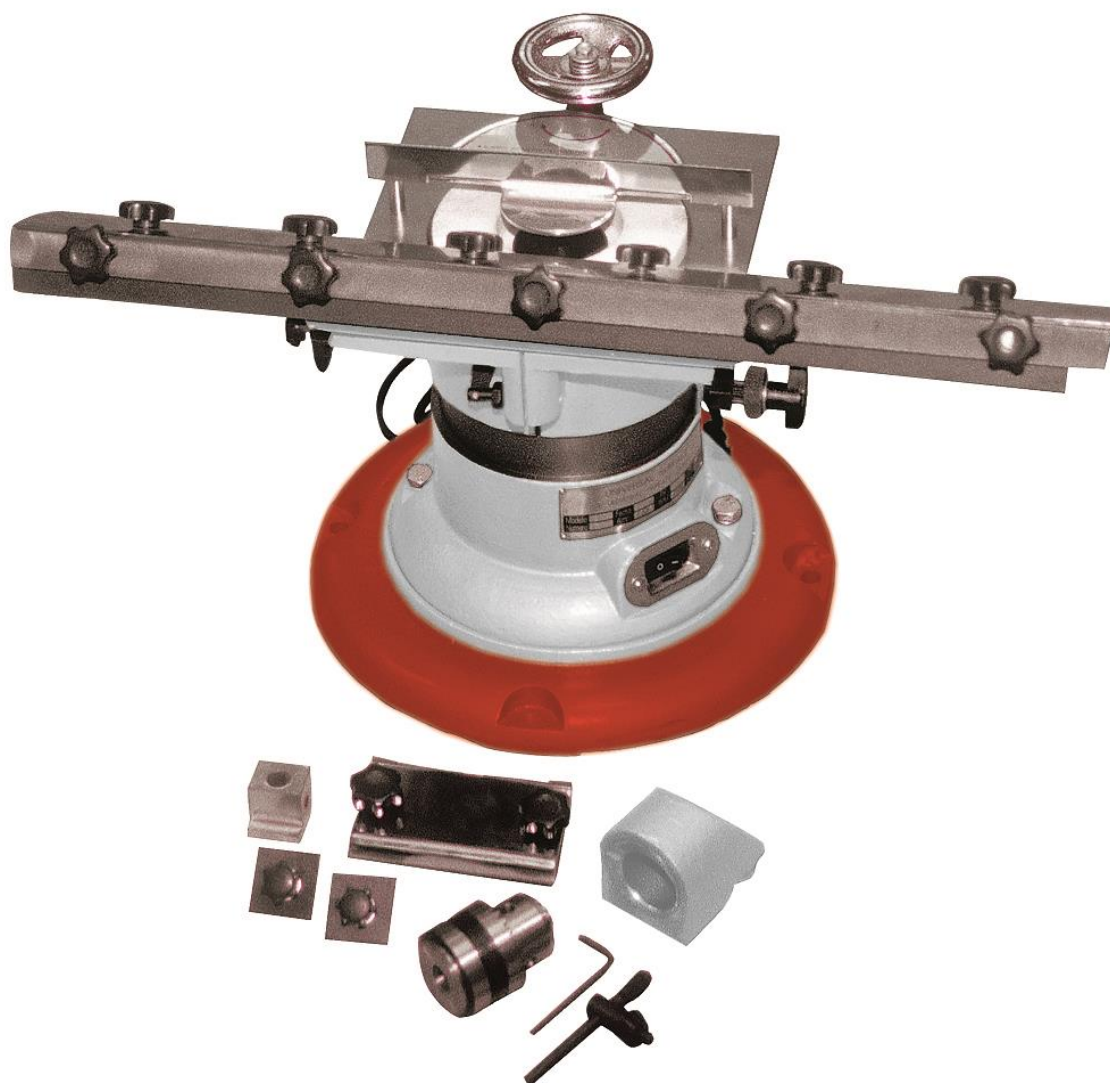
DE BETRIEBSANLEITUNG

Übersetzung / Translation

EN USER MANUAL

UNIVERSALMESSERSCHLEIFMASCHINE

UNIVERSAL GRINDER FOR KNIVES

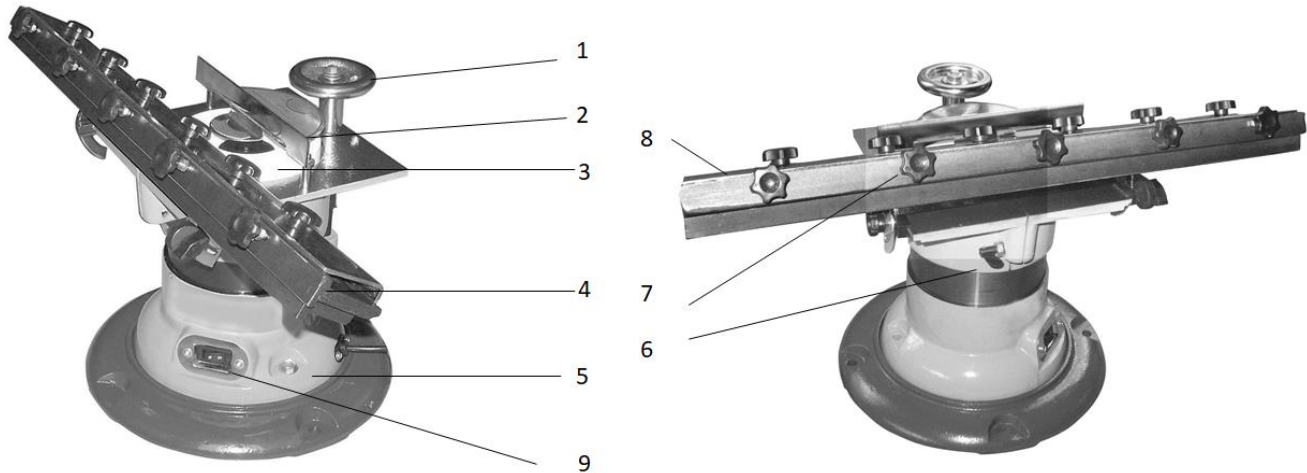


MS 6000



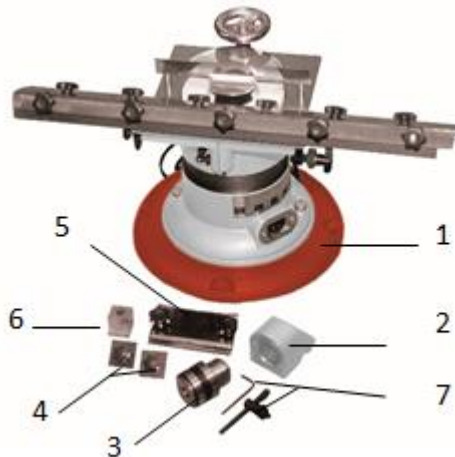
3 **TECHNIK / TECHNIC**

3.1 **Komponenten / components**



Nr.	Bezeichnung / designation	Nr.	Bezeichnung / designation
1	Rad für Tischhöhenverstellung / table height adjustment wheel	6	Schienensperre / table lock
2	Abdeckung / guard	7	Messerhöheinstellschrauben / knife height adjustment knobs
3	Hohlschleifer / cup grinding wheel	8	Messerhalterplatte / knife lock plate
4	Arbeitsschiene (verstellbar 15-90°) / work plate-adjustable (15-90°)	9	EIN-AUS Schalter / ON-OFF switch
5	Motor / motor		

3.2 **Lieferumfang / Delivery content**



Pos	Name	Qty
1	Maschine mit Hobelmesserhalter machine with planer knife holder	1
2	Halter für Bohrfutter Drill chuck holder	1
3	Bohrfutter Drill chuck	1
4+5	Halter für Stemm und Drechseisen (Holder for chisel and planer blades)	2 (1)
6	Schleifsteinabziehalter Wheel dressing tool holder	1
7	Werkzeug tools	2

3.3 **Technische Daten / technical details**

Spezifikation / Specification	Werte / value
Schleifrad-Dimension / Grinding wheel dimension (Bohrung/boreø)	ø150x40mm (ø12.7mm)
Drehzahl Schleifrad / speed grinding wheel	2850 min ⁻¹
Motorleistung / Engine power	0,37 kW
Stromspannung / Voltage	230V
Gewicht netto / weight net	36 kg
Maschinengröße / Dimensions of machine	650x 292 x 330mm
Versandmaße / packaging dimension Box1	510 x 340 x 380
Versandmaße / packaging dimension Box2	680 x 120 x 100

9 PREFACE (EN)

Dear Customer!

This manual contains information and important instructions for the installation and correct use of the universal grinder for knives MS 6000.

Following the usual commercial name of the device (see cover) is substituted in this manual with the name "machine".

This manual is part of the product and shall not be stored separately from the product. Save it for later reference and if you let other people use the product, add this instruction manual to the product.



Please read and obey the security instructions!

Before first use read this manual carefully. It eases the correct use of the product and prevents misunderstanding and damages of product and the user's health.

Due to constant advancements in product design, construction pictures and content may diverse slightly. However, if you discover any errors, inform us please.
Technical specifications are subject to changes!

Please check the product contents immediately after receipt for any eventual transport damage or missing parts.

Claims from transport damage or missing parts must be placed immediately after initial product receipt and unpacking before putting the product into operation.

Please understand that later claims cannot be accepted anymore.

Copyright

© 2018

This document is protected by international copyright law. Any unauthorized duplication, translation or use of pictures, illustrations or text of this manual will be pursued by law.

Court of jurisdiction is the Landesgericht Linz or the competent court for 4170 Haslach, Austria!

Customer service contact

HOLZMANN MASCHINEN GmbH

4170 Haslach, Marktplatz 4
AUSTRIA

Tel +43 7289 71562 - 0

Fax +43 7289 71562 - 4

info@holzmann-maschinen.at

10 SAFETY

10.1 Intended Use

The machine only in technically perfect condition and as intended use, safety-conscious and hazard-conscious! Faults which may impair safety, must be rectified immediately!

It is generally forbidden to modify safety equipment of the machine or to make ineffective!

The machine only in technically perfect condition and as intended use, safety-conscious and hazard-conscious! Faults which may impair safety, must be rectified immediately!

It is generally forbidden to modify safety equipment of the machine or to make ineffective!

10.1.1 Working conditions

The machine is designed for the work under the following conditions:

humidity max. 70%

temperature +5°C to +40°C +41°F to +104°F

The machine is not intended for outdoor use.

Prohibited use

- The operation of the machine under conditions outside of the limits, given in these instructions is not permitted.
- The operation of the machine without the safety devices provided is inadmissible
- The removal or turning off the protection devices is prohibited
- It is not permitted processing of materials with dimensions outside the limits specified in this manual.
- It is not permitted the use of tools that are not for use with TS 200 / 250 are suitable.
- The operation of the machine on a way or for any purpose that does not comply with the instructions of this manual to 100%, is prohibited.
- Do not leave the machine unattended, especially when children are not around.
DO NOT LEAVE the workplace!

**For a different or additional use and resulting property damage or injury takes
HOLZMANN-MASCHINEN no responsibility or warranty.**

10.2 Security instructions

To avoid malfunctions, damage or physical injury following instructions **MUST** be observed:

- **Safety must be observed and regularly inspected for completeness!**
- **Warning signs and / or labels on the machine which have been removed must be replaced immediately!**



DANGER

Unauthorised modifications and tampering with the machine immediately invalidate all warranty and compensation claims.



Workspace and floor holding around the machine clean and free of oil, grease and material residues!

Operating the machine only when lighting is adequate, after dusk, you should no longer work. With fatigue, lack of concentration or under medication, alcohol or drugs that work is prohibited with the machine!

Always remove all tools before turning on the machine.

Do not use the machine in a humid or wet environment.



When working on the machine suitable protective equipment (safety glasses, hearing protection, ...) wear!



Sanding dust may contain chemical substances that have a negative impact on personal health. Work on the machine only in a well ventilated area and with appropriate dust mask perform!



Before carrying out maintenance or adjustment work the machine must be disconnected from the power supply! Off the main switch before disconnecting the power supply (OFF).

Use the power cord never for transportation or manipulation of the machine!



NOT IN OPERATION TO THE GRINDING WHEEL REACH !

Pay attention to the rotating grinding wheel and workpiece during operation.

10.3 Safety devices

- Impeccable use undamaged wheels.

10.4 Residual risks

Also in compliance with all safety regulations and if used properly following residual risks are noted:

- Risk of injury for hands / fingers during operation.

These risks can be minimized if all safety regulations are applied, the machine is properly maintained and cared for and the machine as intended and serviced by a trained service professional. In spite of all safety devices is and remains their healthy common sense and your corresponding technical qualification / training on the operation of a machine as the universal grinder for knives MS 6000 of the most important safety factor!

11 OPERATION

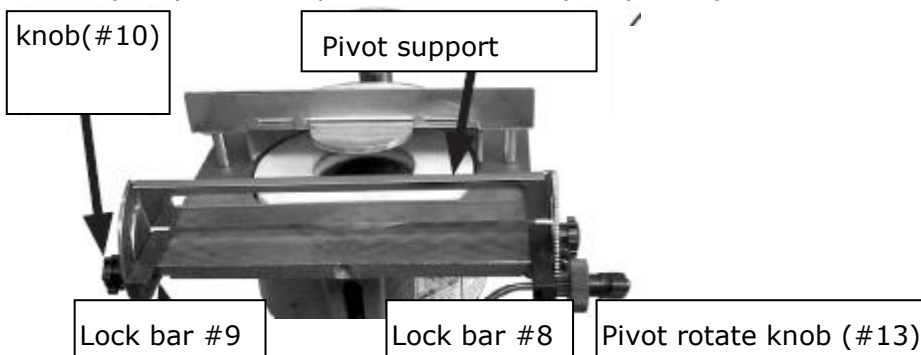
11.1 Preparatory activities

11.1.1 Mounting machine onto a workbench

In order to obtain good results, the machine must be placed securely on a solid, flat working surface. Install the machine on a working table about 25-50mm away from the front edge of the table. For a stable assembly, the machine can be fixed by with screws on the worktop.


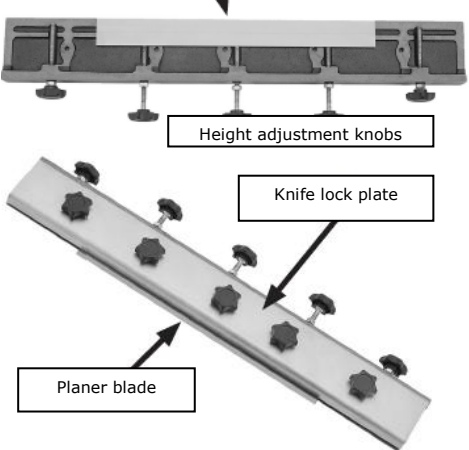
11.1.2 Assembly pivot support

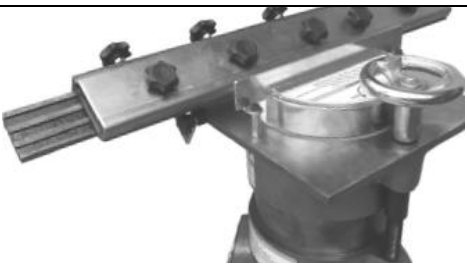
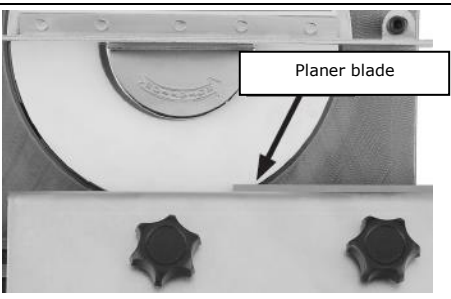
Slide the right and left lock bar (#8 und #9) onto the table and fix the pivot support with the knobs (#10). Use the pivot rotate knob (#13) to adjust the correct angle for your operation.



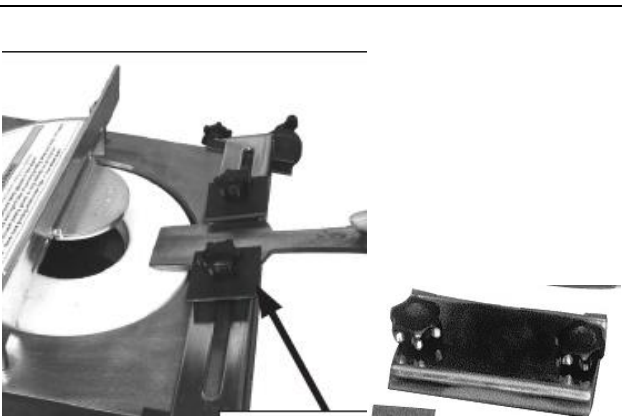
11.2 Operation

11.2.1 Grinding of planer knives

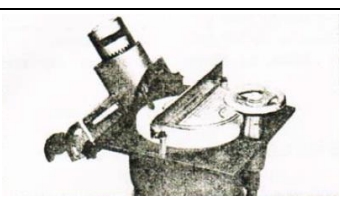
<p>Assembly work plate</p>  <p>Pivot support</p>	<p>Fix the work plate with 3 screws onto the pivot support.</p> <p>Disassemble the pivot support from the machine and then assemble it together again.</p>
<p>Assembly knife onto knife support</p>  <p>Height adjustment knobs</p> <p>Knife lock plate</p> <p>Planer blade</p>	<ul style="list-style-type: none"> - Disassemble the 5 knobs and remove the knife lock plate. - Loose the fixation nut for the height adjustment knobs - Position the planer knife (Notice. Knife must be centered, run parallel to the edge of the knife support and be supported by at least two adjustment knobs). The distance between knife and knife holder shall be approximately 6mm. - Fix the fixation screws with the nuts and fix the knife lock plate with 5 knobs again. Check the distance between knife and knife holder again. - Place the assembled slide bar onto the work plate. Make sure that the grinding table and grinding wheel are levelled with each other. - Move the assembled slide bar slowly across the wheel and note the movement of the wheel. - Grinding wheel does not move evenly: Please check the adjustments (Assembly of knife, level grinder)

	<p>table with grinder wheel)</p> <ul style="list-style-type: none"> - Grinding wheel moves evenly: Raise the grinder table until grinder wheel is below the table.
	<ul style="list-style-type: none"> - Place Knife in position (see picture)
	<ul style="list-style-type: none"> - Turn machine ON
	<ul style="list-style-type: none"> - Slowly lower the grinder table until the knife becomes contact with the grinder wheel - Slowly slide the knife across the grinding wheel. <p>Note: Keep in mind that with a dry grinding operation, the knife can heat up quickly and lose its temper. Sharpening should be done in light passes and for short durations to avoid damaging the knife or wheel.</p>

11.2.2 Grinding of planer blades, chisels

	<ul style="list-style-type: none"> - Place the two tool clamps or the knife holder onto the work plate on assemble the workpiece on it. - Adjust the desired grinding angle. - Raise the grinder table until grinder wheel is below the table - Turn ON machine. - Grinding process can start.. - Note: Keep in mind that with a dry grinding operation, the knife can heat up quickly and lose its temper. Sharpening should be done in light passes and for short durations to avoid damaging the knife or wheel
---	--

11.2.3 Sharpen Drill

	<ul style="list-style-type: none"> - Assemble drill chuck holder onto the pivot support. - Clamp drills in drill chuck - Adjust desired angle and start grinding process
---	---

12 MAINTENANCE

ATTENTION



**Don't clean or do maintenance on the machine while it is still connected to the power supply:
Damages to machine and injuries might occur due to unintended switching on of the machine!**

Therefore:

Switch the machine off and disconnect it from the power supply before any maintenance works or cleaning is carried out

The machine is low maintenance and contains little parts that must undergo a maintenance operator.

Faults or defects that may affect the safety of the machine, must be rectified immediately. Repair work may only be performed by qualified personnel!

The complete and utter cleaning ensures a long life for the machine and represents a safety requirement.

After each shift the machine and all its parts must be thoroughly cleaned by the dust and swarf sucked through the suction system and all other waste is disposed of by compressed air.

Check regularly that all warning and safety instructions on the machine and available in a perfectly legible condition.

Check before every use the perfect condition of the safety devices.

For storage of this machine may not be stored in a humid room and must be protected from the influence of weather conditions.

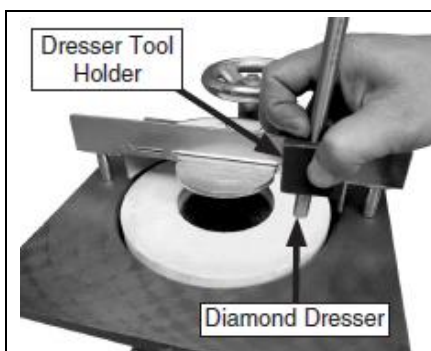
- + **The elimination of defects does your dealer**
- + **Repair work may only be performed by qualified personnel!**

12.1 Wheel dressing

With use the surface of the grinder wheel becomes dull. The dressing stone included with your machine can be used to dress the wheel by carefully holding it against the spinning surface.

The safest and efficient method of dressing the wheel is to use a diamond dresser.

12.1.1 Dress the wheel with a diamond dresser



- Place the dressing holder on the guard
- Install the diamond dresser and fix it in the height, the holder is attached to the grinding wheel. (Make sure that the grinding wheel is slightly above the table)
- Place the diamond dresser side outside the grinding wheel
- Turn ON the machine
- Slowly pull the dresser over the grinding wheel and return
- Move the grinding table slightly downwards and dress again.
- Repeat steps several times

12.2 Wheel replacement



- Remove the pivot support and wheel guard
- Fully loosen the cap screw in the centre of the wheel remove the flange.
- Replace the grinding wheel and fix the wheel with the flange and cap screw again.

12.3 Cleaning

After each workshift the machine has to be cleaned. Remove chips etc. with a suitable tool. Do not remove them by hand (cutting injury!). Remove dust as well.



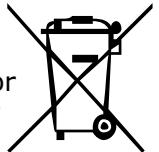
NOTICE

The usage of certain solutions containing ingredients damaging metal surfaces as well as the use of scrubbing agents will damage the machine surface!

Clean the machine surface with a wet cloth soaked in a mild solution

12.4 Disposal

Do not dispose the machine in residual waste. Contact your local authorities for information regarding the available disposal options. When you buy at your local dealer for a replacement unit, the latter is obliged to exchange your old.



13 TROUBLE SHOOTING

BEFORE YOU START WORKING FOR THE ELIMINATION OF DEFECTS, DISCONNECT THE MACHINE FROM THE POWER SUPPLY.

Trouble	Possible cause	Solution
Machine is not running	• Switch defective	• Repair switch
	• Power supply is off	• Repair power supply
	• Fuse is defectivet	• Change fuse
Wavy pattern on workpiece surface	<ul style="list-style-type: none"> • Machine vibration • Workpiece loose in clamping device • Wheel face is uneven 	<ul style="list-style-type: none"> • shim/tighten mounting hardware • correctly re-clamp the workpiece • dress the wheel
Burned spots or cracks in workpiece	<ul style="list-style-type: none"> • Improper type of grinding wheel • Feed rate too slow • Depth of cut too great • Workpiece overheating 	<ul style="list-style-type: none"> • Use correct type of grinding wheel • Increase feed rate • Reduce depth of cut • Grind in short durations and allow workpiece cool down

MANY POTENTIAL SOURCES OF ERROR CAN BE CLEARED BY THE EXPERTLY CONNECTION TO THE ELECTRICITY GRID.



NOTICE

Should you in necessary repairs not able to properly to perform or you have not the prescribed training for it always attract a workshop to fix the problem.

14 ERSATZTEILE / SPARE PARTS

14.1 Ersatzteilbestellung / spare parts order

Mit HOLZMANN-Ersatzteilen verwenden Sie Ersatzteile, die ideal aufeinander abgestimmt sind. Die optimale Passgenauigkeit der Teile verkürzen die Einbauzeiten und erhöhen die Lebensdauer.

HINWEIS

Der Einbau von anderen als Originalersatzteilen führt zum Verlust der Garantie!

Daher gilt: Beim Tausch von Komponenten/Teilen nur Originalersatzteile verwenden

Beim Bestellen von Ersatzteilen verwenden Sie bitte das Serviceformular, das Sie am Ende dieser Anleitung finden. Geben Sie stets Maschinentype, Ersatzteilnummer sowie Bezeichnung an. Um Missverständnissen vorzubeugen, empfehlen wir mit der Ersatzteilbestellung eine Kopie der Ersatzteilzeichnung beizulegen, auf der die benötigten Ersatzteile eindeutig markiert sind.

[Bestelladresse sehen Sie unter Kundendienstadressen im Vorwort dieser Dokumentation.](#)

With original HOLZMANN spare parts you use parts that are attuned to each other shorten the installation time and elongate your products lifespan.

IMPORTANT

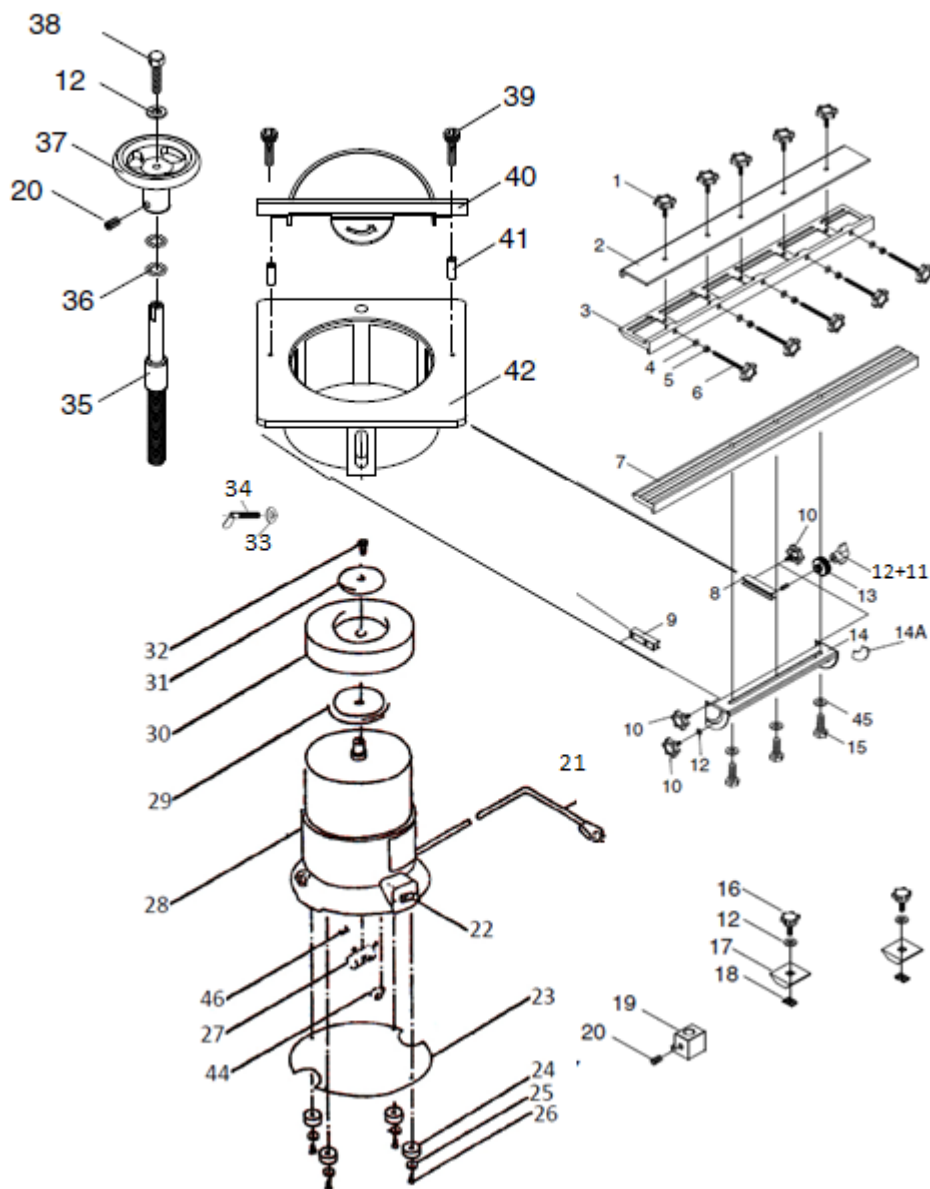
The installation of other than original spare parts voids the warranty!

So you always have to use original spare parts

When you place a spare parts order please use the service formular you can find in the last chapter of this manual. Always take a note of the machine type, spare parts number and partname. We recommend to copy the spare parts diagram and mark the spare part you need.


[You find the order address in the preface of this operation manual.](#)

14.1.1 Explosionszeichnungen / explosion drawings



NO.	DESCRIPTION	NO.	DESCRIPTION
1	Knob	24	Rubber support feet
2	Knife lock plate	25	Plain washer 5
3	Knife support	26	Pan head screw M5x12
4	O-ring	27	Capacitor
5	Hex nut M6	28	Motor housing assembly
6	Star knob	29	Inner flange
7	Work plate	30	6" Grinding wheel
8	Right lock bar	31	Outlet flange
9	Left lock bar	32	Socket cap screw M6x16
10	Knob	33	Hex nut M8
11	Pivot knob	34	Table lock
12	Plain washer 6	35	Table adjust crew
13	Pivot rotate knob	36	Steel balls
14	Pivot plate	37	Handwheel
15	Hex cap screw M8x10mm	38	Hex cap screw M6x55
16	Knob(tool clamp)	39	Socket cap screw M6x55
17	Tool clamp	40	Wheel guard
18	Lock nut plate	41	Spacer
19	Dressing tool guide	42	Motor housing table
20	Set screw M8x10mm	43	Sticker
21	Motor cord	44	Cord clip
22	Switch	45	Plain washer 8
23	Cover plate	46	Wire nut

15 EG-KONFORMITÄTSERKLÄRUNG/CE-CERTIFICATE OF CONFORMITY

	Inverkehrbringer / Distributor HOLZMANN MASCHINEN® GmbH 4170 Haslach, Marktplatz 4, AUSTRIA Tel.: +43/7289/71562-0; Fax.: +43/7289/71562-4 www.holzmann-maschinen.at
Bezeichnung / name	
Universalmesserschleifmaschine / universal grinder for knives	
Typ / model	
MS 6000	
EG-Richtlinien / EC-directives	
2006/42/EG	
Angewandte Normen / applicable Standards	
EN 61029-1:2009+A11	

Hiermit erklären wir, dass die oben genannten Maschinen aufgrund ihrer Bauart in der von uns in Verkehr gebrachten Version den grundlegenden Sicherheits- und Gesundheitsanforderungen der angeführten EG-Richtlinien entsprechen. Diese Erklärung verliert ihre Gültigkeit, wenn Veränderungen an der Maschine vorgenommen werden, die nicht mit uns abgestimmt wurden.

Hereby we declare that the above mentioned machines meet the essential safety and health requirements of the above stated EC directives. Any manipulation or change of the machine not being explicitly authorized by us in advance renders this document null and void.

Tímto prohlašujeme, že výše uvedený typ stroje splňuje bezpečnostní a zdravotní požadavky norem EU. Toto prohlášení ztrácí svou platnost, pokud by došlo ke změnám nebo úpravám stroje, které námi nebyly odsouhlaseny.

Technische Dokumentation
 HOLZMANN-MASCHINEN GmbH
 4170 Haslach, Marktplatz 4

Haslach, 21.08.2018
 Ort / Datum place/date

HOLZMANN MASCHINEN GmbH
 Marktplatz 4, 4170 Haslach
 weiterer Standort:
 Gewerbepark 8, 4707 Schlusberg
 www.holzmann-maschinen.at

DI (FH) Daniel Schörgenhuber
 Geschäftsführer / Director