

Originál

CZ NÁVOD K POUŽITÍ

Übersetzung / Translation

EN USER MANUAL

KOPÍROVACÍ SOUSTRUH NA DŘEVO

COPY WOOD LATHE



VD 1100ECO



11 PREFACE (EN)

Dear Customer!

This manual contains information and important instructions for the installation and correct use of the copy wood lathe VD 1100ECO.

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

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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

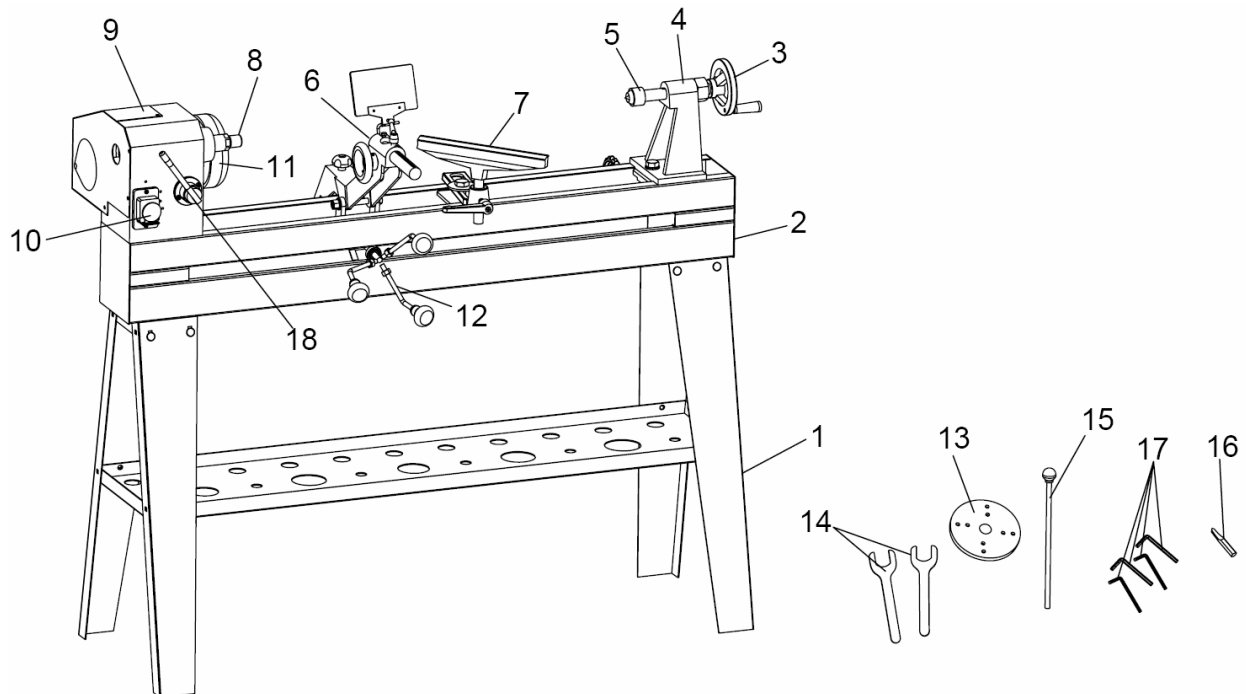
Tel +43 7289 71562 - 0

Fax +43 7289 71562 - 4

info@holzmann-maschinen.at

12 TECHNIC

12.1 Components



1	Stand	10	Switch
2	Bed	11	Motor
3	Hand wheel	12	Crank
4	Tail stock	13	Face plate
5	Living center	14	Wrench
6	Cutter mount	15	Rod injection
7	Tool rest	16	Lathe tool rest
8	Spur center	17	Hex wrench
9	Head stock	18	Speed controller

12.2 Technical details

Voltage	230 V / 50 Hz oder 400 V / 50 Hz
Motor power	750 W
Motor speed	1400 min ⁻¹
Spindle speeds	500 – 2000 min ⁻¹
max. turning diameter	Ø 350 mm
Spindle boring	Ø 10mm
Distance between centers	1000mm
Tailstock spindle travel	120 mm
Morse taper	MT2
Weight	70 kg

13 SAFETY

13.1 Intended Use

The machine must only be used for its intended purpose! Any other use is deemed to be a case of misuse.

To use the machine properly you must also observe and follow all safety regulations, the assembly instructions, operating and maintenance instructions lay down in this manual.

All people who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards.

It is also imperative to observe the accident prevention regulations in force in your area.

The same applies for the general rules of occupational health and safety.

The machine is used for:

Turning wood.

Any manipulation of the machine or its parts is a misuse, in this case HOLZMANN-MASCHINEN and its sales partners cannot be made liable for ANY direct or indirect damage.

Even when the machine is used as prescribed it is still impossible to eliminate certain residual risk factors.



WARNING

- Use the machine never with defective or without mounted guard!
- The removal or modification of the safety components may result in damage to equipment and serious injury!

HIGHEST RISK OF INJURY!

Ambient conditions

The machine may be operated:

humidity

max. 70%

temperature

+5°C to +40°C (+41°F to +104°F)

The machine shall not be operated outdoors or in wet or damp areas.

The machine shall not be operated in areas exposed to increased fire or explosion hazard.

Prohibited use

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- Operation of the machine function without emergency stop button or impeller box with open doors is prohibited.
- The use of the machine not according with the required dimensions is forbidden.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden.
- Any manipulation of the machine and parts is forbidden.
- The use of the machine for any purposes other than described in this user-manual is forbidden.
- The unattended operation on the machine during the working process is forbidden!
- It is not allowed to leave the immediate work area during the work is being performed.

13.2 Security instructions

Missing or non-readable security stickers have to be replaced immediately!

The locally applicable laws and regulations may specify the minimum age of the operator and limit the use of this machine!

To avoid malfunction, machine defects and injuries, read the following security instructions



- Keep your work area dry and tidy! An untidy work area may cause accidents. Avoid slippery floor.
- Make sure the work area is lighted sufficiently
- Install the machine so that there is sufficient space for safe operation and workpiece handling



- Do not overload the machine
- Provide good stability and keep balance all times
- Avoid abnormal working postures! Make sure you stand squarely and keep balance at all times.



- Always stay focused when working. Reduce distraction sources in your working environment. The operation of the machine when being tired, as well as under the influence of alcohol, drugs or concentration influencing medicaments is forbidden.



- Do not climb onto the machine!
- The machine must be operated only by trained persons (knowledge and understanding of this manual), which have no limitations of motor skills compared with conventional workers..



- Do not allow other people, particularly children, to touch the machine or the cable. Keep them away from your work area.
- Make your workshop childproof.
- Make sure there is nobody present in the dangerous area. The minimum safety distance is 2m



- Wear suitable work clothes! Do not wear loose clothing or jewelry as they might get caught in moving parts and cause severe accidents! Wear a hair net if you have long hair.



- Loose objects can become entangled and cause serious injuries!
- Use personal safety equipment: ear protectors and safety goggles when working with the machine.



- Do not wear safety gloves!
- Never leave the machine running unattended! Before leaving the working area switch the machine off and wait until the machine stops.
- Always disconnect the machine prior to any actions performed at the machine.

- Avoid unintentional starting
- Do not use the machine with damaged switch
- The plug of an electrical tool must strictly correspond to the socket. Do not use any adapters together with earthed electric tools
- Each time you work with an electrically operated machine, caution is advised! There is a risk of electric shock, fire, cutting injury;
- Protect the machine from dampness (causing a short circuit)
- Use power tools and machines never in the vicinity of flammable liquids and gases (danger of explosion)

- Check the cable regularly for damage
- Do not use the cable to carry the machine or to fix the work piece
- Protect the cable from heat, oil and sharp edges
- Avoid body contact with earthed



- Before starting the machine remove any adjusting wrenches and screwdrivers
- Fix the workpiece with the right tool
- Machine only stock which is chucked securely on the machine, always check before switching the machine on
- Provide workpiece with centre holes before clamping between centres
- Before start working remove any nails and other foreign bodies from the workpiece
- Keep any machine that is not being used out of reach of children
- Never grab into the running machine!
- Remove chips and workpiece parts only if the machine is standing still!
- Never stop workpieces with the hand during run out!
- Never take measurements on a rotating workpiece!



13.3 Remaining risk factors



WARNING

It is important to ensure that each machine has remaining risks. In the execution of all work (even the simplest) greatest attention is required. A safe working depends on you!

Even if the machine is used as required it is still impossible to eliminate certain residual risk factors totally. The following hazards may arise in connection with the machine's construction and design:

- Risk of injury to the hands / fingers by the rotating workpiece during operation.
- Risk of injury due to sharp edges of the workpiece, especially in non-fixed with a suitable tool / device workpiece.
- Risk of injury: hair and loose clothing, etc. can be captured and wound up! Safety regulations must be observed with regard to clothing.
- Risk of injury due to contacting with live electrical components.
- Risk of injury due to dust emissions, treated with harmful agents workpieces
- Risk of injury to the eye by flying debris, even with safety goggles.
- Risk of injury to the hearing by prolonged labor without hearing protection.
- Risk of injury due to kickback:
Kickback is a sudden reaction. This causes the ejection of the tool to the direction of the operator.

These risk factors can be minimized through obeying all security and operation instructions, proper machine maintenance, proficient and appropriate operation by persons with technical knowledge and experience.

14 ASSEMBLY

14.1 Preparatory activities

14.1.1 Delivery content

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 machine receipt and unpacking before putting the machine into operation. Please understand that later claims cannot be accepted anymore.

14.1.2 Workplace requirements

The workplace has to fulfill the requirements.

The ground has to be even, in level and hard. It must be suitable at least to weight it with double weight per square meter than the machines net weight.

The chosen workplace must have access to a suitable electric supply net hat complies with the machines requirements.

14.1.3 Transport

The machine can be transported in package with a forklift.

The machine is very heavy. The machine shall be lifted from crate with a suitable lifting device only that is certified to be able to carry the machines load.



WARNING

The lifting and transportation of the machine must only be carried out by qualified staff and must be carried out with appropriate equipment.

Note that lifting equipment used (crane, forklift, sling, etc.) must be in perfect condition. To maneuver the machine in the packaging can also a pallet jack or a forklift be used.

14.1.4 Preparation of the surface

Uncoated metal machine parts have been insulated with a greasy layer to inhibit corrosion.

This layer has to be removed. You can use standard solvents that do not damage the machine surface.



NOTICE

Do not use solvents based on nitrite, aggressive solvents like break cleaners or scrubbing agents!

These damage the machine surface.

14.2 Power supply



ATTENTION

When working with non-grounded machines:

Severe injury or even death may arise though electrocution!

Therefore: The machine must be operated at a grounded power socket

The connection of the machine to the electric power supply and the following checks have to be carried out by a respectively trained electrician only.

1. The electronic connection of the machine is designated for operation with a grounded power socket!
2. The mains supply must be secured with 16A:
3. If the connector plug doesn't fit or if it is defect, only qualified electricians may modify or re-new it!
4. The grounding wire should be held in green-yellow.
5. A damaged cable has to be exchanged immediately!
6. Check, whether the feeding voltage and the Hz comply to the required values of the machine. A deviation of feeding voltage of $\pm 5\%$ is allowed (e.g.: a machine with working voltage of 380V can work within a voltage bandwidth of 370 till 400V.
7. After connecting, check the right running direction!
8. Make sure that a possible extension cord is in good condition and suitable for the transmission of power. An undersized cord reduces the transmission of power and heats up.
9. A damaged cable must be replaced immediately



NOTICE

Operation is only allowed with safety switch against stray current (RCD max. stray current of 30mA)



NOTICE

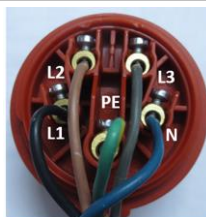
Use only permitted extension cable with cross-section the one in the following table declared.



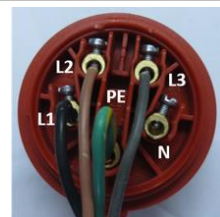
Voltage	Extension	Cross-section
220 V-240 V 50 Hz	<27 m	1,5 mm ²
	<44 m	2,5 mm ²
	<70 m	4,0 mm ²
	<105 m	6,0 mm ²

Plug 400V:

5-wire:
with
N-conductor

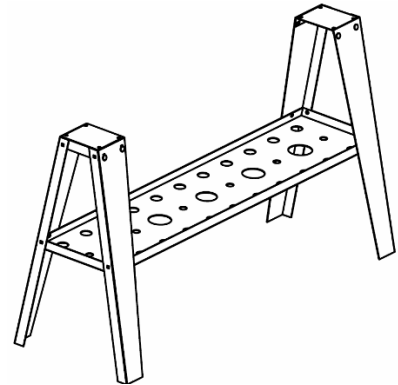
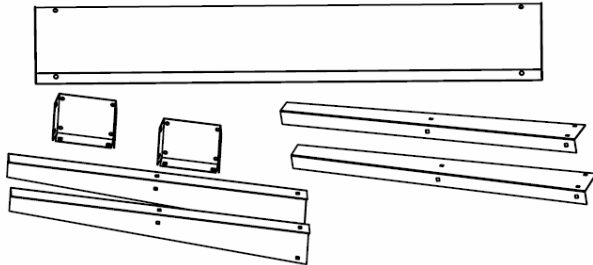


4-wire:
without
N-conductor

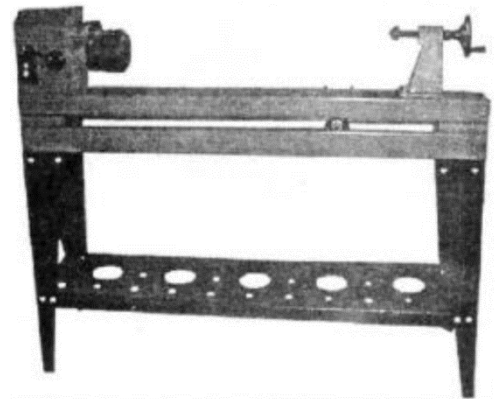


14.3 Assembly

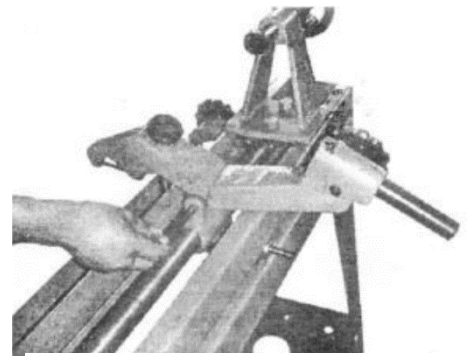
- Prepare parts and install the stand as shown in below pictures.



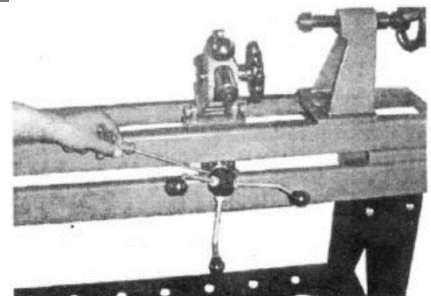
- Position the head stock over the top plate and align the holes in the bed with the holes in the top plate. Set the lathe on the stand by tightening the bolts.



- Insert stud bolt into the mount holes in cutter mount and 3-way milling, then tighten nuts on two sides.



- Screw cranks and fix the hub







WARNING

- The leg set must be fastened to the supporting surface!
- Do not operate your wood lathe until it is completely assemble and adjusted according to the instruction!

15 OPERATION

Device to be operated in a perfect state only. Inspect the device visually every time it is to be used. Check in particular the safety equipment, electrical controls, electric cables and screwed connection for damage and if tightened properly. Replace any damaged parts before operating the device.

15.1 Operation instructions

	<div>WARNING</div> <div>Perform all machine settings with the machine being disconnected from the power supply!</div>	
	<div>ATTENTION</div> <div>Never switch the machine on while pressing the chisel against the material!</div>	
	<div>NOTICE</div> <ul style="list-style-type: none"> • Before switching the machine on, make sure that the tool rest is firmly tightened • Rotate the clamped workpiece each time before turning by hand to ensure that it runs freely and does not touch the rest tool! • Thereby check also whether the workpiece is centred and tighten clamped! • Make sure to guide and hold the chisel with both hands safe and tight during machining! • Work only with well sharpened tools! • Work large and unbalanced workpieces at low spindle speed only! • Specifications regarding the maximum or minimum size of the workpiece must be observed! • Workpieces with cracks may not be used! • Only process selected woods without defects! 	

15.2 Operation

15.2.1 On-Off-switch

Switch on: Push the green button ("I") for 2 seconds. The machine begins to run.

Switch off: Push the red button ("O").

The machine does not stop immediately! Stay as long at the machine, until the workpiece is completely stopped (Do not stop the workpiece by hand!)

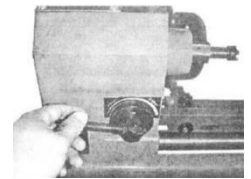
15.2.2 Speed adjustment

The speed can be set infinitely variable by turning the speed control lever.



NOTICE

You must move the lever to the lowest speed setting before turning the switch ON/OFF, otherwise the motor may not start!

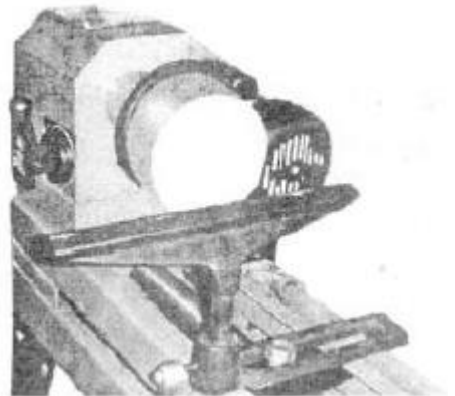
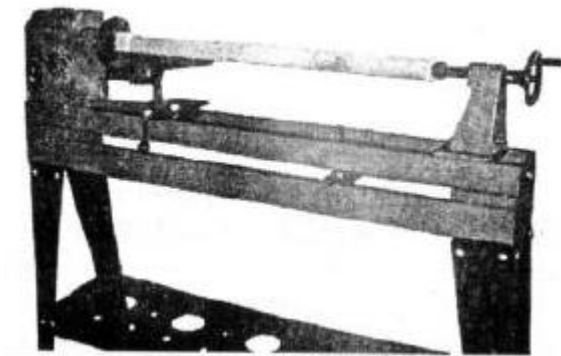


15.2.3 Tool rest





NOTICE

- The tool rest should be selected as close as possible to the workpiece!
- Height adjustment just below the centerline of the workpiece.
- Rotate the workpiece by hand and check that the workpiece can rotate freely before turning!



16 MAINTENANCE

	ATTENTION	
<p>Perform all maintenance machine settings with the machine being disconnected from the power supply!</p> <p>Serious injury due to unintentional or automatic activation of the machine!</p>		

The machine does not require extensive maintenance. If malfunctions and defects occur, let it be serviced by trained persons only.

Before first operation as well as later on every 100 operation hours you should lubricate all connecting parts (if required, remove beforehand with a brush all swarfs and dust).

Check regularly the condition of the security stickers. Replace them if required.

Check regularly the condition of the machine.

The good condition and perfect adjustment of the guiding rollers is essential for a smooth band guidance and a clean cut.

Store the machine in a closed, dry location.

NOTICE
<p>Clean your machine regularly after every usage – it prolongs the machines lifespan and is a pre-requisite for a safe working environment.</p>
<p>Repair jobs shall be performed by respectively trained professionals only!</p>

16.1 Maintenance plan

After each workshift:

Clean the machine and its parts with a strong jet of compressed air from wood dust and other material remains. Moving parts can also be cleaned with a brush or a soft brush. Apply a thin layer of lubricating oil to all moving parts of the machine.


After 50 hours of operation

Check the V-belts.

Determine for frayed belts cause. Check if uneven or rough surfaces and were built on the V-belt pulleys. Replace frayed or stretched belts!

16.2 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
<p>The usage of certain solutions containing ingredients damaging metal surfaces as well as the use of scrubbing agents will damage the machine surface!</p>	
<p>Clean the machine surface with a wet cloth soaked in a mild solution</p>	

16.3 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.



17 TROUBLE SHOOTING

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

Trouble	Possible cause	Solution
Machine does not start	• Switch defective	• Repair switch
	• Power supply is off	• Repair power supply
	• Fuse is defective	• Change fuse
	• Circuit breaker is active	• Push in the circuit button
Strong vibration	• Warped workpiece	• Change material
	• Workpiece is wrong centered	• Measure the center newly
	• Loosen pulley	• Tighten the pulley
	• Outworn pulley	• Change pulley
	• Turning lathe is on uneven surface	• Level the surface
	• Loosen tail- or headstock	• Tighten
	• Too much speed	• Adjust speed
Bad turning result	• bad sharpened chisel	• Sharpen the chisel
	• Wrong chisel for this work	• Select the right chisel
	• Wrong adjustment of tool rest	• Adjust the high and the distance of the tool rest

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

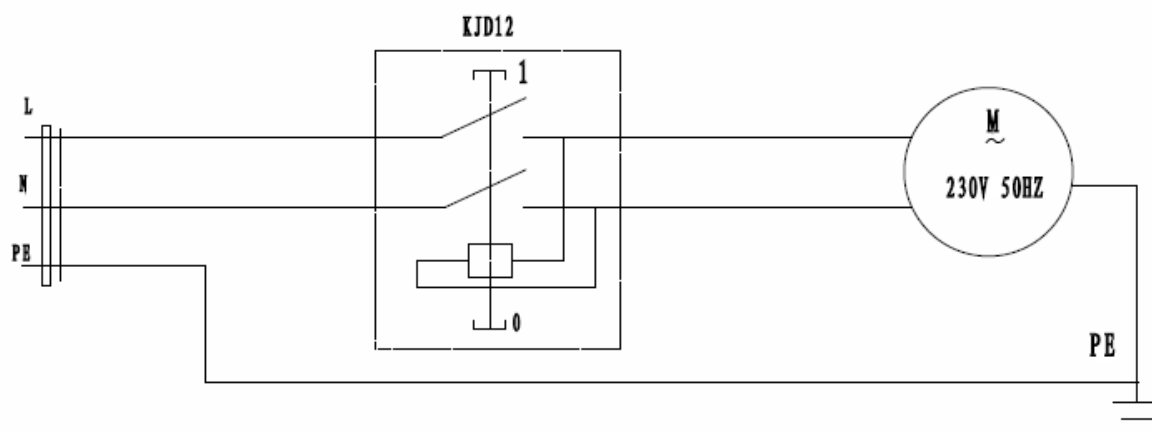


NOTICE

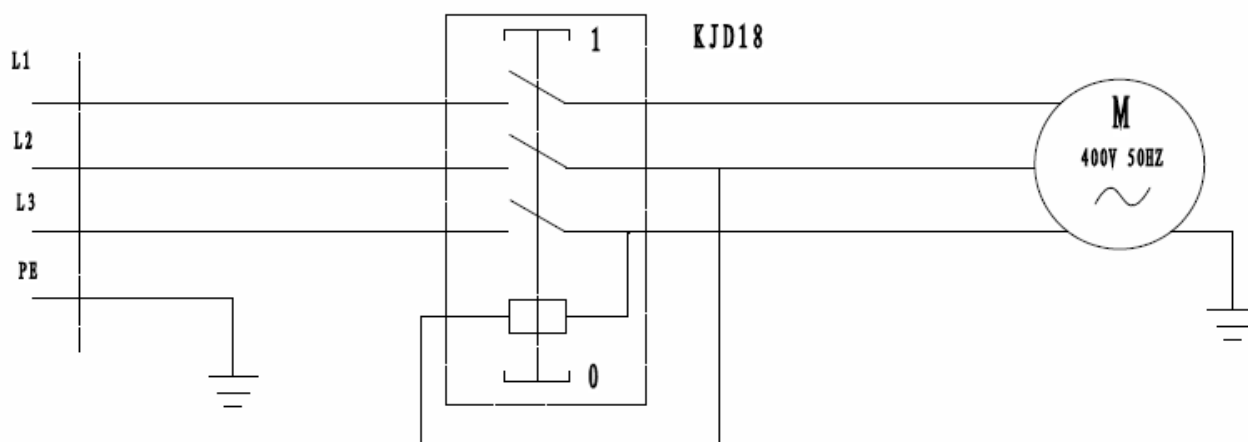
Should you in necessary repairs not able to properly to perform or you have not the prescribed training for it always attract a workshop to fix the problem.

18 ELEKTROSCHÉMA / WIRING DIAGRAM

230V



400V



19 NÁHRADNÍ DÍLY / SPARE PARTS

19.1 Objednávka náhradních dílů / spare parts order

Použitím originálních dílů od společnosti Holzmann používáte díly, které spolu dokonale sedí a jejich montáž je časově méně náročná. Originální náhradní díly jsou zárukou delší životnosti stroje.

POKYN

Použití jiných než originálních náhradních dílů má za následek ztrátu záruky!

Platí: Při výměně komponent/dílů používejte pouze originální náhradní díly.

Při objednávání dílů použijte servisní formulář, který najdete na konci tohoto návodu na obsluhu. Vždy uvádějte typ stroje, číslo náhradního dílu a jeho název. Aby se předešlo neshodám, doporučujeme společně s objednávkou zaslat i kopii výkresu rozpadu náhradních dílů, na kterém Vámi požadované díly označíte.

[Adresu pro objednání dílů naleznete v kontaktech na zákaznický servis.](#)

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

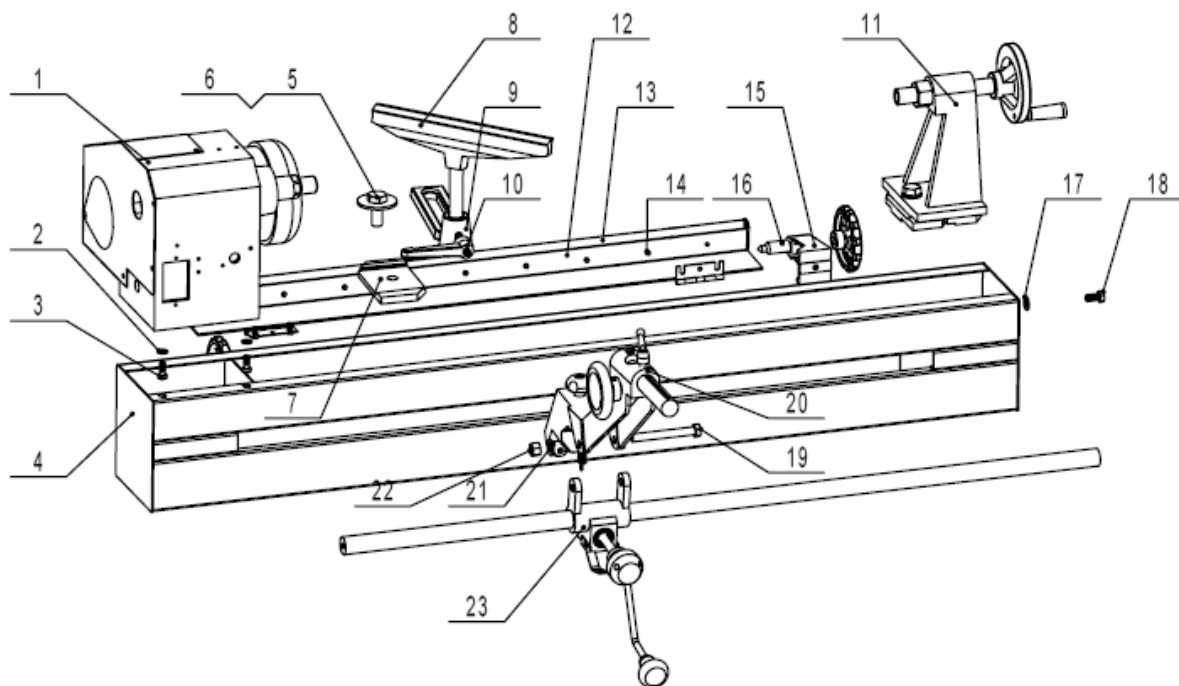
When you place a spare parts order please use the service formular you can find in the last chapter of this manual. Always take a note of the machine type, spare parts number and partname. We recommend to copy the spare parts diagram and mark the spare part you need.

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

PART LIST 1

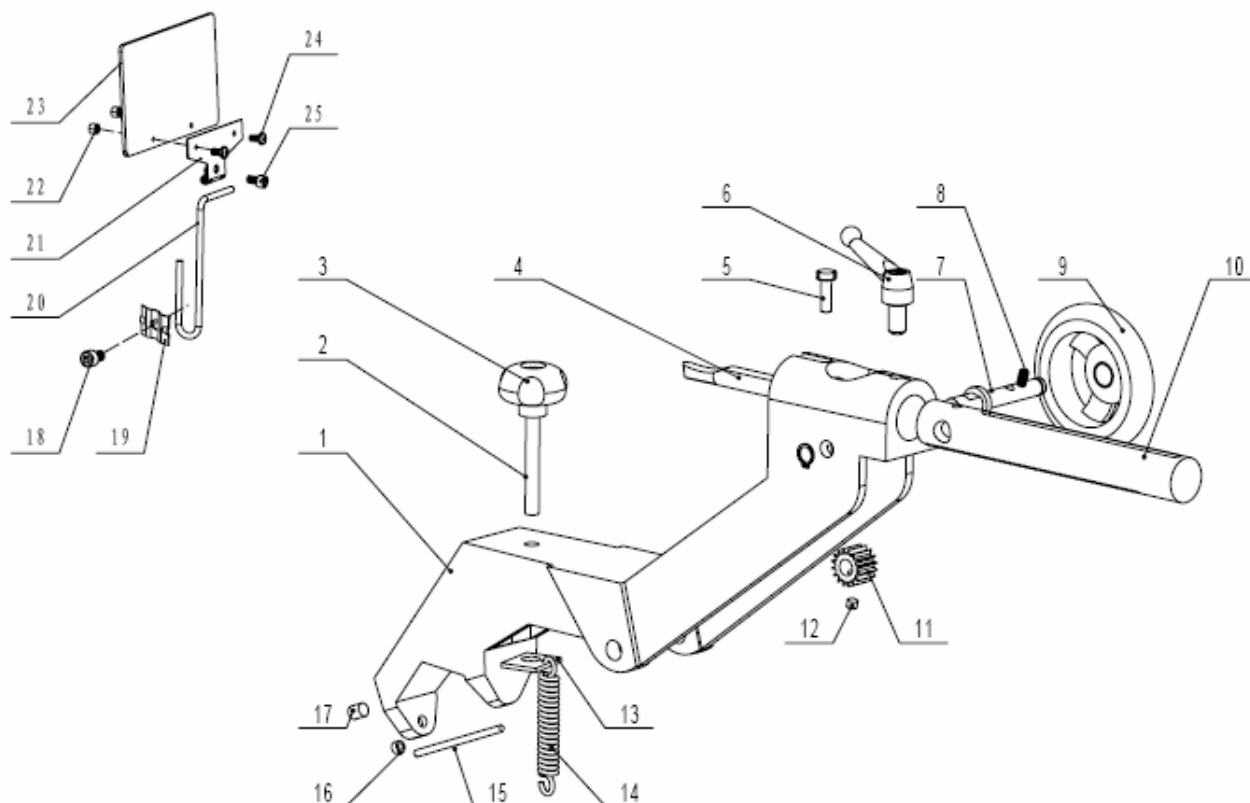
NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEADSTOCK	1	33	POWER CORD	1
2	FACE PLATE	1	34	PLASTIC JAM NUT M20 X 1.5	1
3	HEADSTOCK SPUR	1	35	HEX SCREW M8X30	3
4	SPINDLE	1	36	SWITCH BOX	1
5	KEY 4x80	1	37	SWITCH	1
6	BEARING 6205	2	38	SCREW M4X8	2
7	C"RING 52	2	39		
8	SPRING	1	40	SCREW M5X12	2
9	BRACKET-SHIFTING LEVER	1	41	GEAR ASSEMBLY	1
10	"C"RING 35	1	42	SPEED LABLE	1
11	"C"RING 62	1	43	STAND UPPER COVER	2
12	PUSH-OUT ROD	1	44	STAND LEG, LEFT	2
13	MOTOR	1	45	NUT M8	24
14	KEY 4x80	1	46	WASHER 8MM	24
15	SCREW M5X8	4	47	CARRIAGE BOLT M8 x 16	24
16	COVER-MOTOR	1	48	STAND LEG, RIGHT	2
17	PULLEY-MOTOR(RIGHT & LEFT)	1	49	PLATE	1
19	SPRING	1	13-1	MOTOR FAN	1
20	SLEEVE	1	13-2	MOTOR COVER	1
21	"C"RING 16	2	13-3	CAPACITOR 16UF 450V	1
22	C"RING 25	2	13-4	CAPACITOR COVER	1
23	BACK	1	41-1	GEAR	1
24	NUT M8	1	41-2	LOCATING SEAT	1
25	SCREW M8X25	1	41-3	HANDLE SEAT	1
26	SCREW M6X10	6	41-4	SPRING	1
27	"C"RING 24	1	41-5	SPEED HANDLE	1
28	RIGHT)	1	41-6	LOCATING PIN	1
29	V-BELT 625	1	41-7	ELASTIC CYLINDRICAT PIN 3*32	1
30	BEARING 6007	1	41-8	HANDLE KNOB	1
31	CLAMP	1	41-9	SET SCREW M8*20	1
32	SCREW M4X22	1	41-10	SPRING	1

DIAGRAM 2 AND PART LIST 2



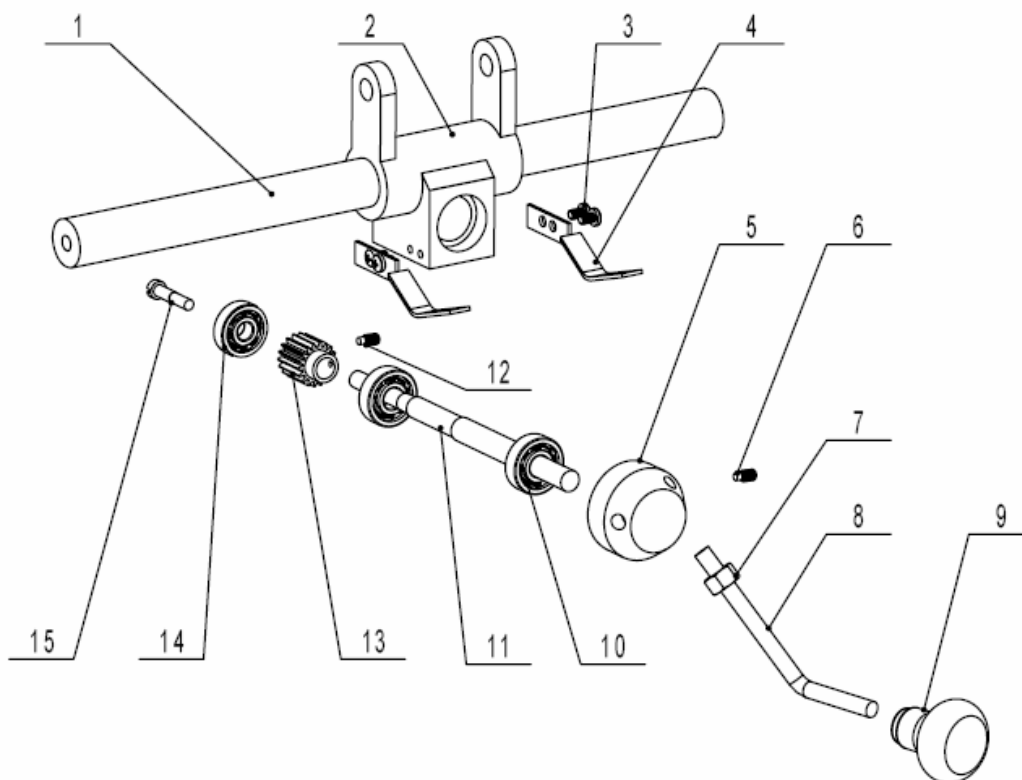
NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	HEADSTOCK ASSEMBLY	1	13	CONNECT BLOCK	1
2	SPRING WASHER M8	4	14	CROSS RECESS PAN HEAD SCREW M6*8	9
3	M8*20	4	15	SUPPORT SEAT	2
4	BED	1	16	SPUR AXIS	2
5	HEX SOCKET BOLT M16*40	1	17	WASHER M10	3
6	WAHSER M16	1	18	HEX SOCKET BOLT M10*16	2
7	LOCKING BLOCK	1	19	AXIS PIN	1
8	TOOL REST	1	20	COPY DEVICE	1
9	TOOL REST BODY	1	21	WASHER M12	1
10	LOCKING HANDLE M10*18	1	22	HEX SOCKET NUT M12	1
11	TAILSTOCK ASSEMBLY	1	23	REMOVE ASSEMBLY	1
12	COPY DEVICE FRAME	1			

DIAGRAM 3 AND PART LIST 3



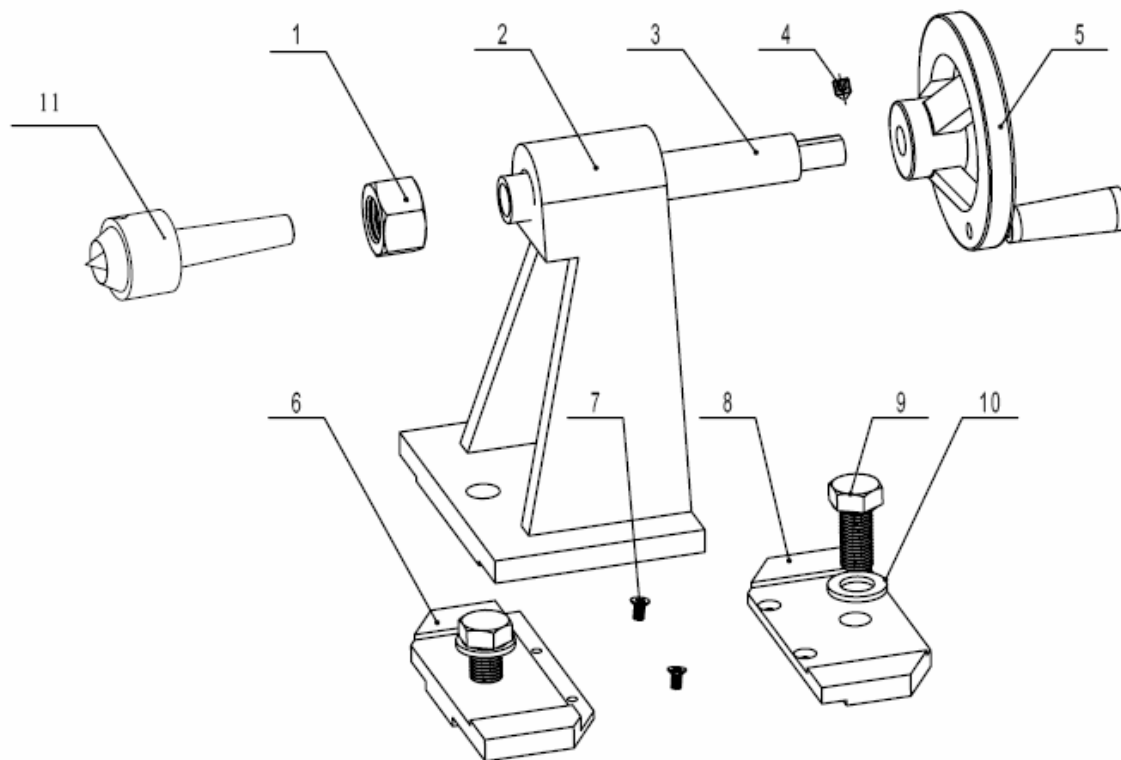
NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	SUPPORT	1	14	SPRING	1
2	BOLT	1	15	PIN	1
3	LOCKING HANDLE	1	16	TUBE	2
4	CUTTER	1	17	HEX SOCKET FLAT SCREW M8*8	1
5	HEX SOCKET CAP SCREW M6*35	1	18	BOLT	1
6	GUIDING HANDLE	1	19	PLATE	1
7	GEAR SHAFT	1	20	BRACKET	1
8	HEX SOCKET SINK SCREW M6*10	1	21	CONNECTION PLATE	1
9	HANDLE WHEEL	1	22	NUT	2
10	CUTTER SHAFT	1	23	PROTECTIVE GUARD	1
11	GEAR	1	24	SCREW	2
12	HEX SOCKET COLUMN SCREW M6*8	1	25	BOLT	1
13	NUT BLOCK	1			

DIAGRAM 4 AND PART LIST 4




NO.	DESCRIPTION	Q'TY	NO.	DESCRIPTION	Q'TY
1	RACK	1	9	KNOB	3
2	SLIDING BLOCK	1	10	BEAR6201	2
3	COUNTERSUNK HEAD SCREW M5*8	4	11	HANDLE AXIS	1
4	SUPPORT BLOCK	2	12	HEX SOCKET COLUMN SCREW M6*8	1
5	HANDLE SEAT	1	13	SPUR GEAR	1
6	HEX SOCKET CAP SCREW M6*8	1	14	BEAR 6200	1
7	HEX SOCKET CAP NUT M10	3	15	STEP TYPE BOLT	1
8	HANDLE KNOB	3			

DIAGRAM 5 AND PART LIST 5



NO.	DESCRIPTION	Q'TY
1	HEX SOCKET CAP NUT M24	1
2	TAILSTOCK	1
3	TAILSTOCK SHAFT	1
4	HEX SOCKET CAP SCREWM8*10	1
5	HANDLE WHEEL	1
6	LOCKING BLOCK A	1
7	CROSS RECESSED COUNTERSUNK HEAD SCREW M5*10	2
8	LOCKING BLOCK B	1
9	HEX SOCKET CAP BOLT M16*40	2
10	FLAT WASHER M16	2
11	DRIVE CENTER	1

20 PROHLÁŠENÍ O SCHODĚ /CE-CERTIFICATE OF CONFORMITY

	Prodejce / Distributor HOLZMANN MASCHINEN® GmbH 4170 Haslach, Marktplatz 4, AUSTRIA Tel.: +43/7289/71562-0; Fax.: +43/7289/71562-4 www.holzmann-maschinen.at
	Název / name
	KOPIERDRECHSELBANK / COPY WOOD LATHE
Typ / model	VD 1100ECO
Směrnice EU / EC-directives	•2006/42/EG; •2014/35/EU
Použité normy / applicable Standards	•EN 61029-1:2009/A11:2010, •EN ISO 12100:2010, •EN 55014-1/A2:2011, •EN 55014-2/A2:2008, •EN 61000-3-2/A2:2014, •EN 61000-3-3:2013,

Tímto prohlašujeme, že výše zmíněný stroj odpovídá uvedeným evropským normám. Toto prohlášení ztrácí svou platnost, pokud by došlo ke změnám stroje, které námi nebyly písemně odsouhlaseny.

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.

Technická dokumentace
HOLZMANN-MASCHINEN GmbH
4170 Haslach, Marktplatz 4

Haslach, 26.08.2016
Místo / Datum place/date



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

DI (FH) Daniel Schörgenhuber
Jednatel / Director