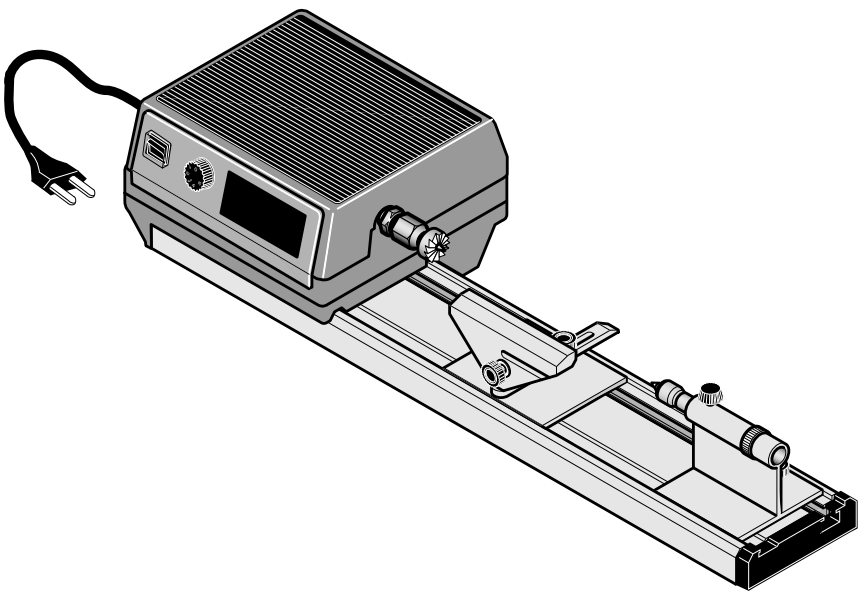


PROXXON

DB 250



Manual

Fig.1

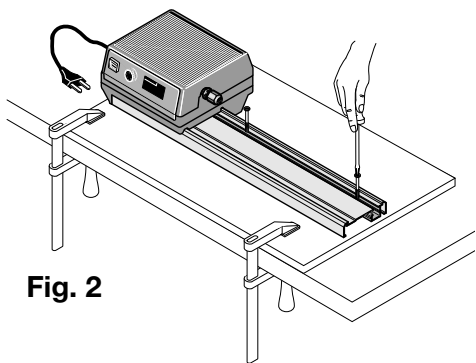
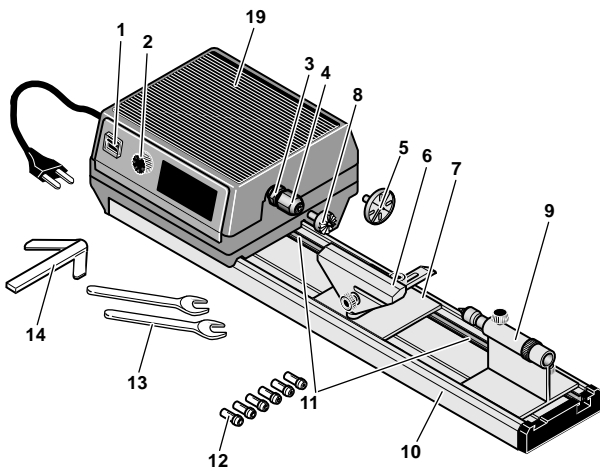


Fig. 2

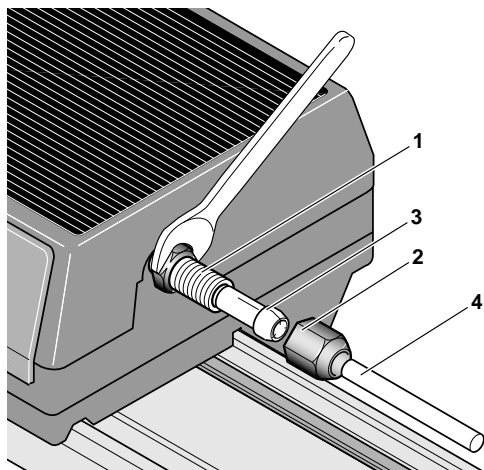


Fig. 3

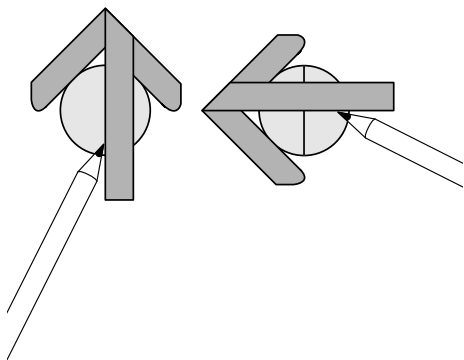


Fig. 4

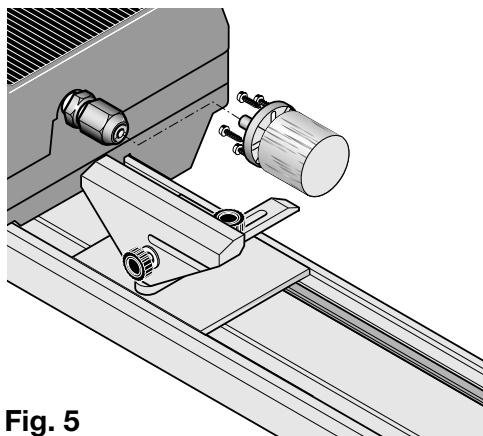


Fig. 5



Translation of the Original Operating Instructions Micro wood tuning lathe, DB 250

Dear customer!

Using these instructions

- makes it easier to get familiar with the device
- prevents malfunctions caused by improper handling, and
- lengthens the service life of your device.

Please keep these instructions readily accessible at all times. Use the device only when you have understood it exactly and always adhere to the instructions.

PROXXON is not liable for the safe functioning of the device in cases of:

- handling that does not conform to the usual usage,
- purposes of use not designated in the instructions,
- disregard of the safety instructions.

You are not entitled to guarantee claims in cases of:

- operator errors,
- inadequate maintenance.

WARNING!

Read all safety warnings and instructions. Failure to follow all safety warnings and instructions listed below may result in electric shock, fire and/or serious injury.



KEEP ALL SAFETY WARNINGS AND INSTRUCTIONS FOR THE FUTURE!

For use in dry environments only



Protection class II device



Please do not dispose off the machine!



Risk of injury!

Never work without dust protection mask and safety glasses. Some dusts have a hazardous effect! Materials containing asbestos may not be machined!



Overall view (Fig. 1):

1. On/off switch
2. Speed control
3. Spanner flats
4. Spindle with collet chuck mount
5. Work piece holder for motor-driven spindle
6. Support
7. Base plate
8. Drive spike
9. Tailstock with tailstock quill,
10. Bed
11. Holes for table fastening
12. Collet chucks
13. Check key
14. Centring ruler

Description of the machine

You will find the PROXXON Micro wood turning lathe, DB 250 is ideal for turning small workpieces of wood or similar materials. This lathe is not suitable for working metals. The basic equipment includes: 6 chucks (2, 3, 4, 6, 8 and 10 mm), 2 chuck keys, 1 lathe centre, 1 drive spike, 1 workpiece holder and 1 centring ruler.

Technical data

Voltage:	230 Volt, 50/60Hz
Power rating:	100 W, 30 min
Speed:	1.000–5.000/min
Centre distance:	ca. 250 mm (9,8 in.)
Centre height:	40 mm (1,57 in.)
Spindle clearance:	10 mm (0,39 in.)
Dimensions:	ca. 490 x 150 x 95 (19,29 x 5,91 x 3,74 in.)
Weight:	2,0 kg
Noise emission:	≤ 70 dB (A)
Vibration:	≤ 2,5 m/s ²

Noise/vibration information

The information on vibration and noise emission has been determined in compliance with the prescribed standardised and normative measuring methods and can be used to compare electrical devices and tools with each other.

These values also allow a preliminary evaluation of the loads caused by vibration and noise emissions.

Warning!

Depending on the operating conditions while operating the device, the actually occurring emissions could differ from the values specified above!

Please bear in mind that the vibration and noise emission can deviate from the values given in these instructions, depending on the conditions of use of the tool. Poorly maintained tools, inappropriate working methods, different work pieces, too high a feed or unsuitable work pieces or materials or unsuitable bits and cutters (here: saw blade) can significantly increase the vibration load and noise emission across the entire work period.

To more accurately estimate the actual vibration and noise load, also take the times into consideration where the device is switched off, or is running but is not actually in use. This can regularly reduce the vibration and noise load across the entire work period.

Warning:

- Ensure regular and proper maintenance of your tool
- Stop operation of the tool immediately if excessive vibration occurs!
- Unsuitable bits and cutters can cause excessive vibration and noises. Only use suitable bits and cutters!
- Take breaks if necessary when working with the device!

Additional safety instructions

1. Remove the mains plug for all adjustment work!
2. Before connecting the mains cable, ensure that the unit has been switched off!
3. Before switching on the lathe, always set the machine to the lowest speed!

4. Always wear protective goggles!
 5. Do not wear loose gloves or any loose clothing when working on the lathe!
 6. Do not use any grossly out-of-centre non-machined parts.
4. Adjust tool rest 1 so that it is positioned about 2 mm from the workpiece (fig. 9). The holder arm can be clamped fast in the required position with screw 2.
 5. If required, the knurled screw can be loosened in order to adjust the sideways inclination of the tool rest.

Installation of the wood turning lathe

Before starting work on the wood turning lathe, use the wood screws to attach the machine to a stable wooden board. The wooden board can subsequently be fixed to the table by means of a vice (Fig. 2).

Operation

Fitting round rods in the collet chuck

The collet chucks supplied can be used to easily clamp round pieces of wood with the following diameters: 2, 3, 4, 6, 8 and 10 mm (.07, .11, .15, .23, .31, .39 in.). For this purpose use the key to block motor-driven spindle 1 (Fig. 3), and unscrew nut 2. Place the requested collet chuck 3, and slightly attach the nut. Insert work piece 4 in the collet chuck, and tighten the nut by hand. Check for true running manually. Subsequently, use the second key to tighten the nut.

Note!

Carefully tension the nut in order to prevent the collet chuck being damaged!

To this end, please proceed as described in the section "Clamping of long workpieces" on the next page.

Long work pieces must be provided with additional support on the tailstock side.

Clamping round wood in the workpiece holder

Clamping round wood that is very thick in relation to its length.

1. Mark two saw-lines with the centring ruler (fig. 4). Use a fine saw blade to saw along the lines to a depth of 2 mm.
2. At the point where the two lines cross, bore a hole of about 2 mm dia. and 5 mm depth.
3. Position the workpiece on the holder as shown in fig. 5 and screw it fast.
4. Fix the workpiece with the holder in drive spindle 1, as described in chapter 1 for the clamping of round rod.
5. Push tailstock 1 (fig. 6) up to the back end of the workpiece and clamp it fast to the bed with knurled nut 2.
6. Turn knurled nut 3 to bring the point into contact with the workpiece so that it is fixed.

Clamping of long workpieces (thicker than 10 mm)

1. Insert drive spike 1 (fig. 7) in the drive spindle and screw it tight (as described in the clamping of round rod).
2. Push tailstock up to the back end of the workpiece as shown in fig. 8 and clamp it fast to the bed with the knurled nut, exactly as described in the previous section.
3. Turn the knurled nut to bring the point into contact with the workpiece so that it is fixed.

Clamping short work pieces for transverse turning

If plates or similar shapes are to be turned, the work piece must be screwed down to the holding device (Fig.). Ensure that the screws do not protrude from the work piece after machining. Risk of injury!

Tip: Particularly short work pieces are fastened by screwing an intermediate plate to the holding device (as described above), and attaching the work piece to the intermediate plate with double sided adhesive tape.

Longitudinal turning

Note!

Prior to turning, always remove centring key 2 (Fig. 4).

1. Check the work piece for true running by turning manually.
2. Set support 1 (Fig. 9) so that the space from the work piece is about 2 mm (.07 in.).
3. Tighten screw 2.
4. When turning, hold the chisel as shown in Fig. 9.

Transverse turning

1. Undo screw 1 (Fig. 10) and turn support 2 by 90 degrees. Allow the support to engage in pad 3.
2. Set the distance from the work piece, and tighten screw 1 again.

Reworking the work piece

After turning, the work piece can be ground with a fine abrasive cloth at medium speed, and coloured designs can be applied by brush, when the machine is operating at minimum speed. When grinding, ensure that the abrasive cloth does not wrap around the work piece (Fig. 11). Risk of injury!

Maintenance, cleaning and care

Attention:

Disconnect the mains plug prior to every adjustment, maintenance measure or repair!

Note:

Every device is dirtied by dust when working. Cleaning is therefore essential. To ensure a long service life, however, the machine should be cleaned with a soft cloth or brush after each use. Mild soap or other suitable cleaning agent may be used in this context. Solvents or cleaning agents containing alcohol (e.g.

petrol, cleaning alcohols, etc.) should be avoided, since these can attack plastic casings.

The apertures required for cooling the motor must always be kept free of dust and dirt.

Accessories

For more detailed information on accessories, please request our device catalogue from the address specified on the last page in the warranty information.

Please note in general:

Proxxon bits and cutters have been designed to work with our machines, which makes them optimal for their use.

We will not assume any liability whatsoever for the safe and proper function of our devices when using third-party bits and cutters!

Service note

Please note: The mains power input may only be replaced by our Proxxon Service Department or a qualified specialist!

Disposal:

Please do not dispose of the device in domestic waste! The device contains valuable substances that can be recycled. If you have any questions about this, please contact your local waste management enterprise or other corresponding municipal facilities.

EC Declaration of Conformity

Name and address of the manufacturer:
PROXXON S.A., 6-10, Härebjerg, L-6868 Wecker

Produktbezeichnung: DB 250
Artikel Nr.: 27020

In sole responsibility, we declare that this product conforms to the following directives and normative documents:

EU EMC Directive

Applied standards:

2014/30/EC

DIN EN 55014-1 / 05.2012
DIN EN 55014-2 / 02.2016
DIN EN 61000-3-2 / 03.2015
DIN EN 61000-3-3 / 03.2014

EU Machinery Directive

Applied standards:

2006/42/EC

DIN EN 62841-1 / 07.2016

Date:

22.03.2018



Dipl.-Ing. Jörg Wagner

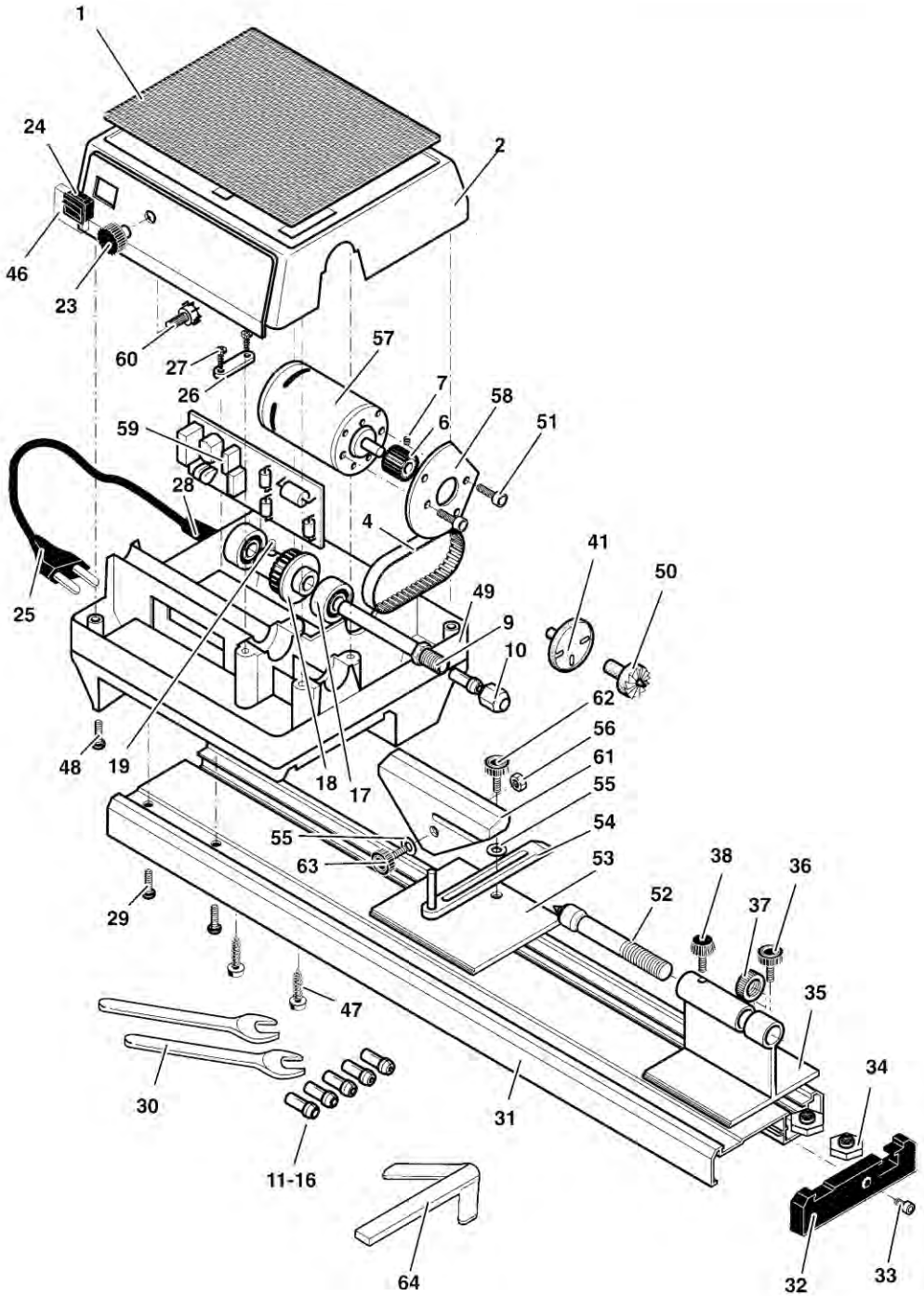
PROXXON S.A.
Machine Safety Department

The CE document authorized agent is identical with the signatory.

Spare Parts List

PROXXON DB 250

ET - Nr.:	Description
27020-01	Plastic mat
27020-03	Casing, downer part
27020-04	Toothed belt
27020-06	Motor belt pulley
27020-07	Setscrew
27020-09	Shaft
27020-10	Swivel nut
27020-11	Clamping jaw 2 mm
27020-12	Clamping jaw 3 mm
27020-13	Clamping jaw 4 mm
27020-14	Clamping jaw 6 mm
27020-15	Clamping jaw 8 mm
27020-16	Clamping jaw 10 78mm
27020-17	Bearing
27020-18	Pulley for work spindle
27020-19	Setscrew
27020-23	Control knob
27020-24	On-off-switch
27020-25	Power cord incl. Plug
27020-26	Strain relief
27020-27	On-off-switch
27020-28	Screw for strain relief
27020-29	Screw
27020-30	Open-end-wrench
27020-31	Bed
27020-32	Cover
27020-33	Screw
27020-34	Sliding block
27020-35	Tailstock
27020-36	Knurled screw M4
27020-37	Knurled nut
27020-38	Knurled screw M3
27020-41	Work piece holder with journal
27020-46	Dust protection cap
27020-47	Screw
27020-48	Screw for casing
27020-49	Casing, lower part
27020-50	Tappet
27020-51	Screw
27020-52	Revolving center
27020-53	Mounting plate
27020-54	Holder
27020-55	Washer
27020-56	Hexagon nut
27020-57	Motor
27020-58	Mounting plate
27020-59	Board
27020-60	Potentiometer
27020-61	Support for chisel
27020-62	Wing screw
27020-63	Wing screw
27020-64	Centering guide
27020-99	Manual and Safety instructions



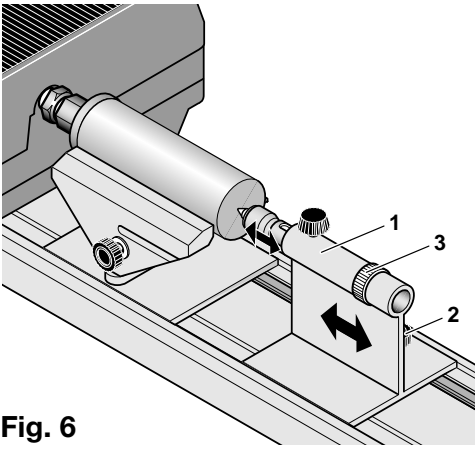


Fig. 6

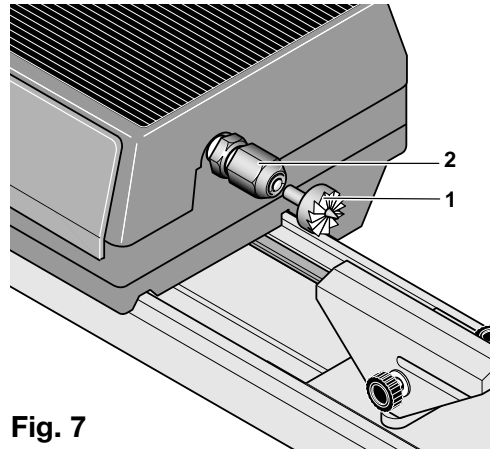


Fig. 7

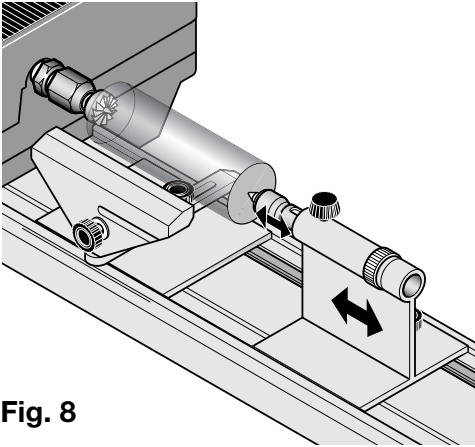


Fig. 8

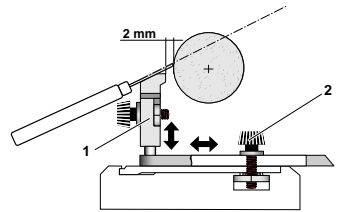
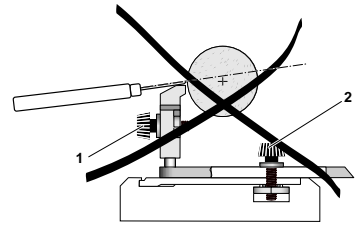


Fig. 9

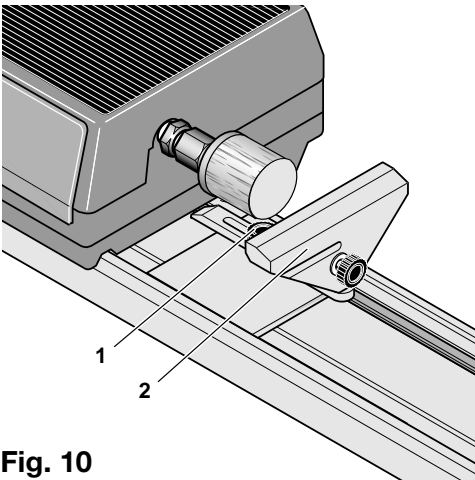


Fig. 10

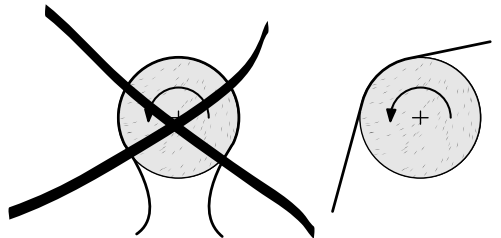


Fig. 11

PROXXON

GB Service note

All PROXXON products are thoroughly inspected after production. Should a defect occur nevertheless, please contact the dealer from whom you purchased the product. Only the dealer is responsible for handling all legal warranty claims which refer exclusively to material and manufacturer error.

Improper use, such as capacity overload, damage due to outside influences and normal wear are excluded from the warranty.

You will find further notes regarding "Service and Spare Parts Management" at www.proxxon.com.