

GB - ENGLISH

Operating Instructions

Dear Customer,

Many thanks for the confidence you have shown in us with the purchase of your new JET-machine. This manual has been prepared for the owner and operators of a JET JML-1014VS mini lathe to promote safety during installation, operation and maintenance procedures. Please read and understand the information contained in these operating instructions and the accompanying documents. To obtain maximum life and efficiency from your machine, and to use the machine safely, read this manual thoroughly and follow instructions carefully.

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1. Declaration of conformity

On our own responsibility we hereby declare that this product complies with the regulations* listed on page 2. Designed in consideration with the standards**.

2. JET Group Warranty

The JET Group makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer/purchaser of our products that each product be free from defects in materials and workmanship as follows:

2 YEAR LIMITED WARRANTY ON ALL PRODUCTS UNLESS SPECIFIED OTHERWISE.

This Warranty does not apply to defects due to directly or indirectly misuse, abuse, negligence or accidents, normal wear-and-tear, repair or alterations outside our facilities, or to a lack of maintenance.

The Jet group limits all implied warranties to the period specified above, from the date the product was purchased at retail

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to an authorized repair station designated by our office.

Proof of purchase date and an explanation of the complaint must accompany the merchandise.

If our inspection discloses a defect, we will either repair or replace the product, or refund the purchase price if we cannot readily and quickly provide a repair or replacement, if you are willing to accept a refund.

We will return repaired product or replacement at JET'S expense, but if it is determined there is no defect, or that the defect resulted from causes not within the scope of JET'S warranty, then the user must bear the cost of storing and returning the product

The JET Group reserves the right to make alterations to parts, fittings, and accessory equipment which they may deem necessary for any reason whatsoever.

3. Safety

3.1 Authorized use

This wood lathe is designed for turning wood only. Machining of other materials is not permitted and may be carried out in specific cases only after consulting with the manufacturer.

The proper use also includes compliance with the operating and maintenance instructions given in this manual.

The machine must be operated only by persons familiar with its operation and maintenance and who are familiar with its hazards.

The required minimum age must be observed.

The machine must only be used in a technically perfect condition.

When working on the machine, all safety mechanisms and covers must be mounted.

In addition to the safety requirements contained in these operating instructions and your country's applicable regulations, you should observe the generally recognized technical rules concerning the operation of woodworking machines.

Any other use exceeds authorization. In the event of unauthorized use of the machine, the manufacturer renounces all liability and the responsibility is transferred exclusively to the operator

3.2 General safety notes

Woodworking machines can be dangerous if not used properly. Therefore the appropriate general technical rules as well as the following notes must be observed.

Read and understand the entire instruction manual before attempting assembly or operation.

Keep this operating instruction close by the machine, protected from dirt and humidity, and pass it over to the new owner if you part with the tool.

No changes to the machine may be made.

Daily inspect the function and existence of the safety appliances before you start the machine. Do not attempt operation in this case, protect the machine by unplugging the mains cable.

Remove all loose clothing and confine long hair.

Before operating the machine, remove tie, rings, watches, other jewellery, and roll up sleeves above the elbows.

Wear safety shoes; never wear leisure shoes or sandals.

Always wear the approved working outfit.

Do **not** wear gloves.

Wear goggles when working

Install the machine so that there is sufficient space for safe operation and workpiece handling.

Keep work area well lighted.

The machine is designed to operate in closed rooms and must be placed stable on firm and levelled table surface.

Make sure that the power cord does not impede work and cause people to trip.

Keep the floor around the machine clean and free of scrap material, oil and grease.

Stay alert!

Give your work undivided attention. Use common sense. Do not operate the machine when you are tired.

Do not operate the machine under the influence of drugs, alcohol or any medication. Be aware that medication can change your behaviour.

Never reach into the machine while it is operating or running down.

Never leave a running machine unattended. Before you leave the workplace switch off the machine.

Keep children and visitors a safe distance from the work area.

Do not operate the electric tool near inflammable liquids or gases. Observe the fire fighting and fire alert options, for example the fire extinguisher operation and place.

Do not use the machine in a damp environment and do not expose it to rain.

Wood dust is explosive and can also represent a risk to health. Dust from some tropical woods in particular, and from hardwoods like beach and oak, is classified as a carcinogenic substance. Always use a suitable dust collection device

Before machining, remove any nails and other foreign bodies from the workpiece.

Make sure to guide and hold the chisel with both hands safe and tight during machining.

Work only with well sharpened tools.

Machine only stock which is chucked securely on the machine, always check before switching the machine on.

Provide workpieces with centre holes before clamping between centres.

Work large and unbalanced workpieces at low spindle speed only.

Workpieces with cracks may not be used.

Remove the chuck key or dowel pins before turning the machine on.

Always close the belt cover.

Specifications regarding the maximum or minimum size of the workpiece must be observed.

Do not remove chips and workpiece parts until the machine is at a standstill.

Never stop work pieces with the hand during run out.

Never take measurements on a rotating workpiece.

Do not stand on the machine.

Connection and repair work on the electrical installation may be carried out by a qualified electrician only.

Have a damaged or worn power cord replaced immediately.

Make all machine adjustments or maintenance with the machine unplugged from the power source.

3.3 Remaining hazards

When using the machine according to regulations some remaining hazards may still exist.

The rotating workpiece can cause injury.

Workpieces that are inhomogeneous or weak can explode when being processed due to centrifugal force.

Only process selected woods without defects.

Unbalanced workpieces can be hazardous.

Injuries can occur when feeding tooling, if tool supports are not correctly adjusted or if turning tools are blunt.

Risk of kickback. The tooling is caught by the rotating workpiece and thrown back to the operator.

Thrown workpieces and workpiece parts can lead to injury.

Dust and noise can be health hazards. Be sure to wear personal protection gear such as safety goggles and dust mask. Use a suitable dust collection system.

The use of incorrect mains supply or a damaged power cord can lead to injuries caused by electricity.

4. Machine specifications

4.1 Technical data

| | |
|------------------------------|--------------------|
| Swing over bed | 250 mm |
| Centre distance | 350mm |
| Number of mechanical speeds | 3 |
| Spindle speed range 1 | 500-1200rpm |
| Spindle speed range 2 | 1100-2600rpm |
| Spindle speed range 3 | 1700-3900rpm |
| Headstock spindle nose | 1" x 8 TPI |
| Headstock spindle taper | MT 2 |
| Tailstock spindle taper | MT 2 |
| Tailstock hole diameter | 9mm |
| Tailstock ram travel | 50mm |
| Tool rest length | 150mm |
| Overall (LxWxH) | 630x200x360mm |
| Net weight | 30 kg |
| Mains | 230V ~1/N/PE 50Hz |
| Output power | 0,37 kW (0,5HP) S1 |
| Reference current | 3 A |
| Extension cord (H07RN-F): | 3x1,5 ² |
| Installation fuse protection | 10A |

4.2 Noise emission

| | |
|-------------------------------------|-------------|
| Acoustic pressure level (EN 11202): | |
| Idling | 67,4 dB (A) |
| In operation | 76,5 dB (A) |

The specified values are emission levels and are not necessarily to be seen as safe operating levels. As workplace conditions vary, this information is intended to allow the user to make a better estimation of the hazards and risks involved only.

4.3 Content of delivery

150mm tool rest
Live centre
75mm face plate
Safety goggles
Spur centre and tooling knockout
Operating tools
Assembly kit
Operating manual
Spare parts list.

5. Transport and start up

5.1 Transport and installation

The machine is designed to operate in closed rooms and must be placed stable on a firm and levelled table surface.

5.2 Assembly

The JML-1014VS is fully assembled and comes ready to use out of the box.

If you notice transport damage while unpacking, notify your supplier immediately. Do not operate the machine!

Dispose of the packing in an environmentally friendly manner.

Clean all rust protected surfaces with a mild solvent.

5.3 Mains connection

Mains connection and any extension cords used must comply with applicable regulations. The mains voltage must comply with the information on the machine licence plate.

The mains connection must have a 10 A surge-proof fuse.

Only use power cords marked H07RN-F

Connections and repairs to the electrical equipment may only be carried out by qualified electricians.

5.4 Dust collection

Use a suitable dust collection and filtration system to avoid a high dust concentrations in the air.

5.5 Starting operation

You can start the machine with the green ON-button (A, Fig 1). The lathe will begin turning and driving the headstock spindle. The lathe will reach full speed in about 1 to 3 seconds.

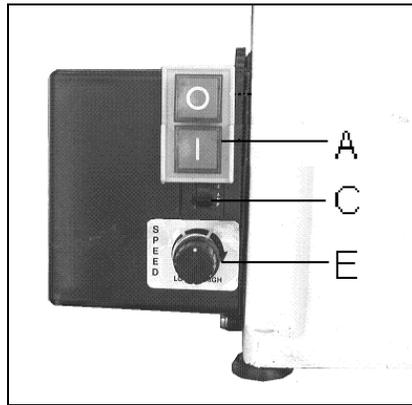


Fig 1

The red OFF-button stops the machine.

Wait for the workpiece to come to a complete stop.

The variable speeds of the lathe are controlled by the speed knob (E) on the control box as well as the position of the belt on the pulleys.

Warning:

Always set the speed control knob to its lowest setting before starting lathe. Never start a workpiece at maximum speed.

In case of machine overload the reset button (C) will react.

- Turn off machine power
- Push the reset button
- Then re-start the lathe.

6. Machine operation

Successful wood turning does not result from high speeds, but rather, from the correct use of turning tools.

A perfect and sharp wood turner tool is a precondition for professional wood-turning.

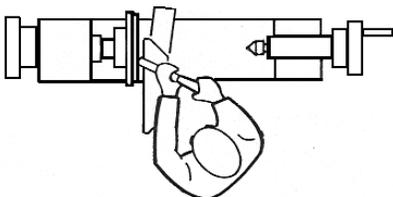
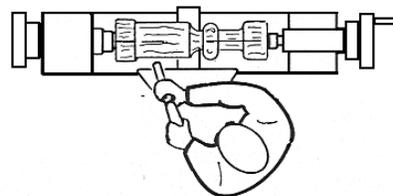


Fig 2

Always support the tool on the tool rest and guide with the palm of your hand keeping your fingers closed.

7. Setup and adjustments

General note:

Setup and adjustment work may only be carried out after the machine is protected against accidental starting by pulling the mains plug.

7.1 Changing speed range

Disconnect the machine from the power source (unplug) !

Pull open the control box at the left side of the base (A, Fig 3) and the access door at the back side of the headstock (A, Fig 4) to expose the pulleys.

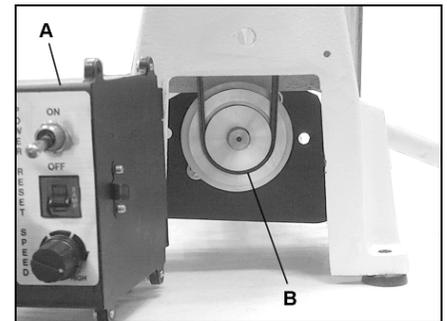


Fig 3

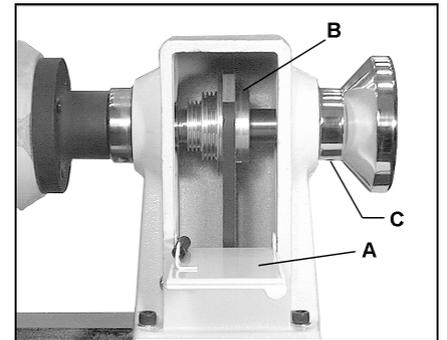


Fig 4

Take tension off the belt. Loosen the motor plate lock (A, Fig 5) and lift up motor plate handle (B).

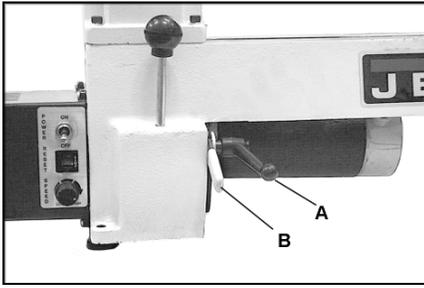


Fig 5

You can now position the belt in the desired speed range.

Note:

The "High" speed range (1700-3900) provides maximum speed, where as the "Low" speed range (500-1200) will provide maximum torque.

Close and lock the belt covers.

7.2 Adjusting tool rest

Position the tool rest (C, Fig 6) as close to the workpiece as possible. Tighten handle (A) to lock.

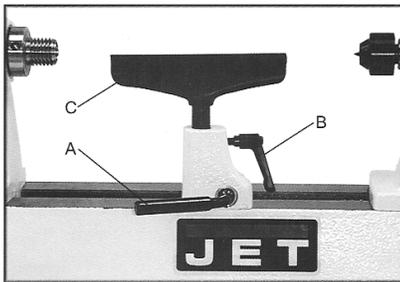


Fig 5

Set the height to appr. 3mm above centre. Tighten indexable knob (B).

7.3 Installing work holding

Disconnect the machine from the power source (unplug)

The face plate (A, Fig 7) screws on the spindle nose thread.

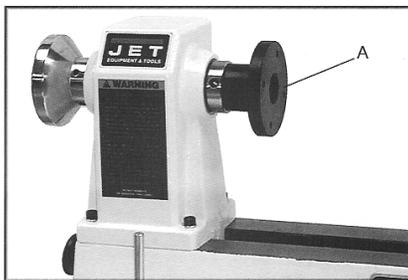


Fig 7

Mount the workpiece directly to the face plate using 4 brass wood screws from the back. Be careful to use screws short enough not to interfere with the cutting process but long enough to hold the workpiece securely to the face plate.

If screw mounting is not allowed at all, the work may be glued to a backing block and the backing block screwed to the face plate. A piece of paper in the glue joint will prevent damaging the wood when separated later.

Mount the face plate with the workpiece already attached onto the spindle nose thread and hand tighten.

Turn the workpiece by hand to see if it rests securely and can be rotated freely.

For face plate turning the tool rest is set slightly lower than centreline.

Caution: always cut with your chisel on the left half of the workpiece only.

The spur drive centre (A, Fig 8) locks into the spindle taper and can be removed with the knockout rod (B).

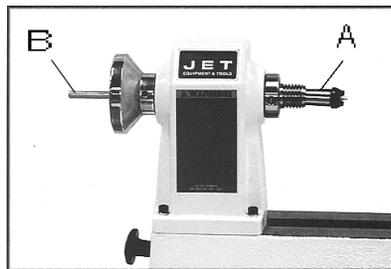


Fig 8

Mount the workpiece between the spur drive and the tailstock live centre. Turn the tailstock hand wheel until the live centre well penetrates the workpiece. Reverse the hand wheel by one quarter turn and lock the tailstock spindle.

Turn the workpiece by hand to see if it rests securely between centres and can be rotated freely.

For turning between centres the tool rest is set appr. 3mm higher than centreline.

7.4 Adjusting tailstock

Turn the hand wheel (A, Fig 9) clockwise to move tailstock spindle forward. Lock spindle with the indexable knob (B).

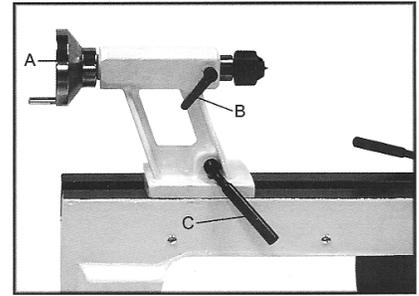


Fig 9

The handle (C) locks the tailstock in position on the bed.

The live centre can be ejected by turning the hand wheel counter-clockwise.

The live centre pin can be removed to allow deep hole drilling operations.

8. Maintenance and inspection

General notes:

Maintenance, cleaning and repair work may only be carried out after the machine is protected against accidental starting by pulling the mains plug.

Clean the machine regularly.

Inspect the proper function of the dust collection daily.

Defective safety devices must be replaced immediately.

Repair and maintenance work on the electrical system may only be carried out by a qualified electrician.

9. Trouble shooting

Motor doesn't start

*No electricity- check mains and fuse.

*Defective switch, motor or cord- consult an electrician.

*Overload has reacted-
-Turn off machine power
-Push the reset button
-Then re-start the lathe.

Machine vibrates excessively

*Stand on uneven floor- adjust stand for even support.

*Workpiece is not properly centred-

*The speed is too high-

10. Available accessories

Stock number 708354

Machine stand

Stock number 708355

Machine extension 500mm

Stock number 708337

Dead cup centre MT2

Stock number 708330

Spur drive centre MT2

Stock number 708331

Live centre MT2

Stock number 708332

Face shield

Stock number 708333

Face plate 150mm

Stock number 708334

Face plate 75mm

Stock number 708335

Knockout bar

Stock number 709160

3 piece HSS pen turning chisel set

Stock number 709008

8 piece carbon steel wood turning
chisel set

Refer to the JET-Pricelist
for various tools and work holding.