



## Risk assessment for : Leeds Wood Recycling Cic










<b>Risk assessment name</b>	Makita RP2301 FCXK1/2	<b>Assessment type</b>	 General
<b>Assessor name</b>	Leon Varga	<b>Affected site(s)</b>	Leeds Wood Recycling CIC (LS11 9RT)
<b>Assessment date</b>	31/03/2023	<b>Review period</b>	Annually
<b>Approved by</b>	Leon Varga	<b>Review date</b>	31/03/2024
<b>Approved date</b>	31/03/2023	<b>Reference</b>	LEE1780873














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Workspace(s)	Description
 Processing	<p>Contact with rotating cutter:            The hand router operates with an exposed cutter rotating at high speed to effect the shaping of the workpiece. The exposed rotating cutter is fundamental to the router's operation and presents a range of potential risks.            The router can be started unexpectedly when cutter is not safely positioned. This may happen when the cutter is being inserted, adjusted or removed from the machine.            Loose clothing or long hair could draw the operator towards the cutter.            The operator may become unbalanced and unable to control the router safely.            The cutter may become loose and could be ejected from the router            The operator may lose control or drop the router when it is being operated</p> <p>Ejection of the workpiece or tools:            The router exerts considerable forces on the workpiece being shaped.            These forces could cause the workpiece to be projected at high speed across the workspace. This is made more likely in the case of "climb cutting" ie feeding the router in the direction of rotation of the cutter, not against it. The router will also pull away from the operator reducing their control.            The tools used to secure the cutter in place could be similarly ejected if not removed after adjustments.            Parts of the tools may be ejected.</p> <p>Production of dust and chippings:            The routing process converts the material being cut into dust and chippings, presenting hazards:            Chippings can be forcibly thrown from the router cutter            The dust and particles produced may be hazardous to health</p> <p>Exposure to noise:            The routers cutting process is noisy</p> <p>Handling the cutter:            When the cutter is stationery it presents hazards:            The cutter has sharp edges needed to cut which present the risk of cutting the operator manipulating it.            After use, the cutter can be very hot and cause burns</p> <p>Electrocution:            In common with other electrical power tools, the router present s risks associated with electricity            The power cord for the router can be cut when routing            Electrical insulation of the operator can be compromised</p>








**Overall risk rating : 6 ( Low)**









Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Manual Handling Activities (General) Risk of injury whilst undertaking general manual handing activities.</p>	<p>All staff, Operators</p> <p>How Many? vary</p> <p>How? The router operator is in close proximity to the cutter, workpiece. They are directly exposed to the noise and dust produced as part of the routing process. They need to set up, adjust and remove the cutter in the router. They hold and control the router when operating it. Others working in the workspace are exposed to the risk of a cutter or workpiece being ejected by the router. They are also exposed to the dust and noise created when the router is operating. Visitors to the workshop are also exposed to risks of a cutter or workpiece being ejected, dust and noise. Visitors to the workshop are restricted by a pass access system.</p>	<p> <b>Manual Handling - Team Lifting</b> Team lifting will be applied as required</p> <p> <b>Manual Handling Risk Assessment Carried Out</b> An assessment of the manual handling risk has been carried out for the task.</p> <p> <b>Protective Footwear Worn Whilst Manual Handling</b> Suitable protective footwear is worn whilst carrying out manual handling activity.</p>	<p> <b>Manual Handling Procedures In Place</b> Relevant employees have been given training in safe lifting practices commensurate with the tasks.</p> <p> <b>Manual Handling Training Given</b> All relevant employees have received training on correct manual handling techniques</p>	<p>3 x 3</p> <p> 9</p> <p>Low</p>

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Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Poor Housekeeping Risk of injury during access &amp; egress due to poor housekeeping.</p>	<p>All staff, Operators</p> <p>How Many? vary</p> <p>How? The router operator is in close proximity to the cutter, workpiece. They are directly exposed to the noise and dust produced as part of the routing process. They need to set up, adjust and remove the cutter in the router. They hold and control the router when operating it. Others working in the workspace are exposed to the risk of a cutter or workpiece being ejected by the router. They are also exposed to the dust and noise created when the router is operating. Visitors to the workshop are also exposed to risks of a cutter or workpiece being ejected, dust and noise. Visitors to the workshop are restricted by a pass access system.</p>	<p> <b>Aisles &amp; Gangways Kept Clear For Good Housekeeping</b> All aisles and gangways kept clear to avoid slips and trips</p> <p> <b>Appropriate First Aid Provided</b> Casualties treated by first aider until emergency help arrives</p> <p> <b>Cleaning Schedules in Operation</b> Cleaning Schedules in Operation</p> <p> <b>Good Housekeeping Observed During The Task</b> Good housekeeping standards observed &amp; maintained by operatives throughout the duration of the task</p> <p> <b>Reporting Procedures Followed</b> Reporting Procedures Followed</p> <p> <b>Tools cleaned, checked &amp; stored after use</b> Hand tools are cleaned down after use, checked and stored correctly.</p>	<p> <b>All Staff Trained In Good Housekeeping Techniques</b> All staff are trained in good housekeeping techniques &amp; the standards expected in the workplace</p> <p> <b>Areas Kept Clear To Prevent Slips, Trips &amp; Falls</b> Areas kept clear and monitored to reduce the risk of slips, trips &amp; falls around the premises.</p> <p> <b>Exit Clear &amp; Unobstructed</b> Exit &amp; exit route is kept clear and unobstructed in the event of an emergency evacuation situation.</p> <p> <b>Regular Housekeeping Inspections Are Carried Out</b> Regular housekeeping inspections are carried out in the workplace.</p> <p> <b>Toolbox Talks/Site Safety Briefings Given</b> Tool Box Talk programme in place to ensure that employees are briefed on relevant safety issues.</p> <p> <b>Trailing Wires/Cables Made Safe To Prevent Trips</b> Leads &amp; extension cables are routed and/or secured/taped to minimise trip risks</p>	<p>1 x 1</p> <p style="color: green; font-size: 2em; text-align: center;">1</p> <p>Low</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Sharp objects Inappropriate use and storage of implements could cause injuries such as cuts to hands and fingers.</p>	<p>All staff, Operators, visitors</p> <p>How Many? vary</p> <p>How? The router operator is in close proximity to the cutter, workpiece. They are directly exposed to the noise and dust produced as part of the routing process. They need to set up, adjust and remove the cutter in the router. They hold and control the router when operating it. Others working in the workspace are exposed to the risk of a cutter or workpiece being ejected by the router. They are also exposed to the dust and noise created when the router is operating. Visitors to the workshop are also exposed to risks of a cutter or workpiece being ejected, dust and noise. Visitors to the workshop are restricted by a pass access system.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p><b>Appropriate First Aid Provided</b> Casualties treated by first aider until emergency help arrives</p> </div> <div style="width: 50%;">  <p><b>Employees Trained On 'Safer Sharps'</b> Employees have received training in accordance with the Sharp Instruments in Healthcare Regulations</p> </div> <div style="width: 50%;">  <p><b>First Aid Needs Assessment Carried Out</b> Appropriate first aid facilities &amp; personnel provided as a result of a First Aid Needs Assessment.</p> </div> <div style="width: 50%;">  <p><b>Only Competent Persons Can Carry Out The Task</b> Only personnel with sufficient information, instruction and training can carry out the task.</p> </div> <div style="width: 50%;">  <p><b>Only Competent Persons Can Operate The Equipment</b> Only personnel with sufficient information, instruction and training can operate the equipment.</p> </div> <div style="width: 50%;">  <p><b>Operators Trained In Safe Operation Of Equipment</b> Operators receive adequate information, instruction &amp; training for safely operating the equipment</p> </div> <div style="width: 50%;">  <p><b>Provision Of Written Safe Systems of Work In Place</b> Provisions of written Safe Systems of Work to control the process with the minimum risk of injury</p> </div> <div style="width: 50%;">  <p><b>Sharps Handled With Care (Tools)</b> Open-bladed knives &amp; other sharp tools are to be carried and used so as not to cause injury.</p> </div> </div>	<p>3 x 1</p> <p style="font-size: 2em; color: green;">1</p> <p style="font-size: 2em; color: green;">3</p> <p>Low</p>

Hazard	Who could be harmed and how?	Existing controls		Risk rating (L x S)
 <p>Wood Dust Risk of ill-health due to the inhalation of harmful soft/hard wood &amp; M.D.F. dust.</p>	<p>All staff, Operators</p> <p>How Many? vary</p> <p>How? The router operator is in close proximity to the cutter, workpiece. They are directly exposed to the noise and dust produced as part of the routing process. They need to set up, adjust and remove the cutter in the router. They hold and control the router when operating it. Others working in the workspace are exposed to the risk of a cutter or workpiece being ejected by the router. They are also exposed to the dust and noise created when the router is operating. Visitors to the workshop are also exposed to risks of a cutter or workpiece being ejected, dust and noise. Visitors to the workshop are restricted by a pass access system.</p>	<p> <b>Both Natural &amp; Local Exhaust Ventilation Provided</b> Both Natural &amp; Local Exhaust Ventilation Provided</p> <p> <b>Eye Protection Worn</b> Eye protection supplied to BS EN 166 &amp; relevant to the work activity hazard</p> <p> <b>Good Housekeeping Observed During The Task</b> Good housekeeping standards observed &amp; maintained by operatives throughout the duration of the task</p>	<p> <b>Cleaning Schedules in Operation</b> Cleaning Schedules in Operation</p> <p> <b>Eye Wash Station Provided</b> Eye wash station provided for first aid treatment for debris/dust etc. in eyes.</p>	<p>4 x 4</p>  <p>16</p> <p>Medium</p>

Hazard	Who could be harmed and how?	Existing controls	Risk rating (L x S)
 <p>Work Equipment/Moving Machinery (General Risks) Cutting, shearing, entanglement, drawing-in, trapping, impact, stabbing, puncture, friction etc.</p>	<p>All staff, Operators</p> <p>How Many? vary</p> <p>How? The router operator is in close proximity to the cutter, workpiece. They are directly exposed to the noise and dust produced as part of the routing process. They need to set up, adjust and remove the cutter in the router. They hold and control the router when operating it. Others working in the workspace are exposed to the risk of a cutter or workpiece being ejected by the router. They are also exposed to the dust and noise created when the router is operating. Visitors to the workshop are also exposed to risks of a cutter or workpiece being ejected, dust and noise. Visitors to the workshop are restricted by a pass access system.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;">  <p><b>Appropriate First Aid Provided</b> Casualties treated by first aider until emergency help arrives</p> </div> <div style="width: 50%;">  <p><b>Authorised Persons Only To Operate The Equipment</b> Only operated by persons that have received adequate training &amp; authorised to use the equipment</p> </div> <div style="width: 50%;">  <p><b>Only Competent Persons Can Operate The Machine</b> Only personnel with sufficient information, instruction and training can operate the machine</p> </div> <div style="width: 50%;">  <p><b>Operators Trained In Safe Operation Of Equipment</b> Operators receive adequate information, instruction &amp; training for safely operating the equipment</p> </div> <div style="width: 50%;">  <p><b>Pre-start Checks Undertaken On Machinery</b> Pre-start Checks Undertaken On Machinery</p> </div> <div style="width: 50%;">  <p><b>Routine Maintenance Undertaken</b> Routine maintenance is undertaken in accordance with the manufacturer's requirements</p> </div> </div>	<p>4 x 4</p>  <p>16</p> <p>Medium</p>

**Further control measures**

None required

## Operating procedures

### Hazards Identified:

#### Contact with rotating cutter:

The hand router operates with an exposed cutter rotating at high speed to effect the shaping of the workpiece. The exposed rotating cutter is fundamental to the router's operation and presents a range of potential risks.

The router can be started unexpectedly when cutter is not safely positioned. This may happen when the cutter is being inserted, adjusted or removed from the machine.

Loose clothing or long hair could draw the operator towards the cutter.

The operator may become unbalanced and unable to control the router safely.

The cutter may become loose and could be ejected from the router

The operator may lose control or drop the router when it is being operated

#### Ejection of the workpiece or tools:

The router exerts considerable forces on the workpiece being shaped.

These forces could cause the workpiece to be projected at high speed across the workspace. This is made more likely in the case of "climb cutting" ie feeding the router in the direction of rotation of the cutter, not against it. The router will also pull away from the operator reducing their control.

The tools used to secure the cutter in place could be similarly ejected if not removed after adjustments.

Parts of the tools may be ejected.

#### Production of dust and chippings:

The routing process converts the material being cut into dust and chippings, presenting hazards:

Chippings can be forcibly thrown from the router cutter

The dust and particles produced may be hazardous to health

#### Exposure to noise:

The routers cutting process is noisy

#### Handling the cutter:

When the cutter is stationery it presents hazards:

The cutter has sharp edges needed to cut which present the risk of cutting the operator manipulating it.

After use, the cutter can be very hot and cause burns

#### Electrocution:

In common with other electrical power tools, the router present s risks associated with electricity

The power cord for the router can be cut when routing

Electrical insulation of the operator can be compromised

The router operator is in close proximity to the cutter, workpiece. They are directly exposed to the noise and dust produced as part of the routing process.

They need to set up, adjust and remove the cutter in the router. They hold and control the router when operating it.



Others working in the workspace are exposed to the risk of a cutter or workpiece being ejected by the router. They are also exposed to the dust and noise created when the router is operating.

Visitors to the workshop are also exposed to risks of a cutter or workpiece being ejected, dust and noise. Visitors to the workshop are restricted by a pass access system.

### Supporting evidence

[indg175 Hand-arm vibration at work safety.pdf](#)

31/03/2023 -265416 kb

[indg362 Noise at work.pdf](#)

31/03/2023 -400632 kb

[wis22 router and machining centres HSE.pdf](#)

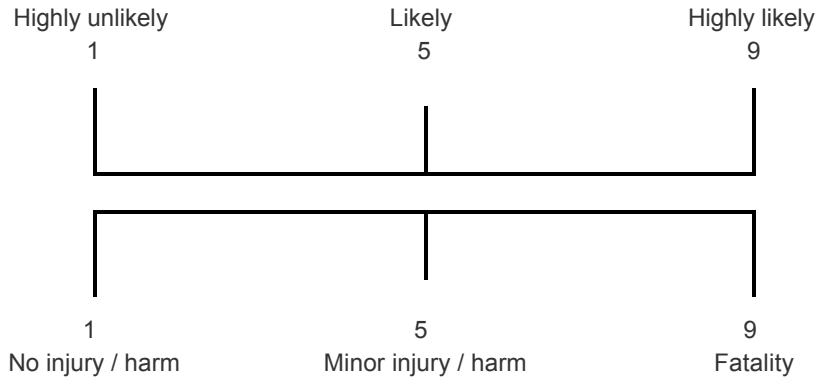
29/03/2023 -7526693 kb

[wis37 Hand-fed woodworking machines HSE.pdf](#)

31/03/2023 -855761 kb

Risk rating explanation

Risk ratings are calculated by considering the likelihood of an event occurring along with the severity of the potential consequence should an accident occur. After considering existing control measures, values are assigned to the likelihood and severity from the scales below and these figures multiplied to established the risk rating.



9	18	27	36	45	54	63	72	81
8	16	24	32	40	48	56	64	72
7	14	21	28	35	42	49	56	63
6	12	18	24	30	36	42	48	54
5	10	15	20	25	30	35	40	45
4	8	12	16	20	24	28	32	36
3	6	9	12	15	18	21	24	27
2	4	6	8	10	12	14	16	18
1	2	3	4	5	6	7	8	9
	Severity							

Probability

What do your risk ratings mean?

- Risk is categorised as LOW: Look to reduce risk if practicable
- Risk has been categorised as MEDIUM: Begin to plan your action to reduce the risk immediately
- Risk has been categorised as HIGH: Immediate action required to reduce the risk

Assessor's signature: Leon Varga

Approved by signature: Leon Varga

**Employee(s)/Worker(s) acknowledgement**

The signs below acknowledge receipt of this risk assessment and confirm that they have read and understood the requirements of the risk assessment.

Employee name	Signature(s)	Date

Employee name	Signature(s)	Date