



- **CUTS & FOREIGN BODIES – SAFETY GLASSES WITH SIDE SHIELDS**
- **ROTATING EQUIPMENT – WORK CLOTHING**
- **NOISE – EAR PLUGS OR MUFFS**
- **SAFETY FOOTWEAR**

### **1 INTRODUCTION**

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1.1 Intended application: Milling of metal work pieces etc.

1.2 Principle of operation: Mechanical cutting.

Common name: Metal Lathe

### **2 WARNINGS:**

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2.1 Safety Precautions:

- ALWAYS ensure the machine is switched off BEFORE making adjustments to the machine ESPECIALLY when adjusting speeds

2.2 Do's and Don'ts:

- HAZARD check all guards are in position BEFORE turning on lathe ENSURE the chuck/tool holder and vice are firmly locked before switching on the machine
- DO NOT WEAR loose clothing or jewellery tie back hair always wear safety glasses / face shield and ear protection
- SELECT CORRECT CUTTING SPEED
- WAIT until the machine has stopped rotating before making adjustments or using measuring equipment
- DO NOT tamper with guarding system
- HAZARD always REMOVE C shaped chuck key BEFORE & AFTER use
- ALWAYS support the work piece
- USE cutting fluid
- DO NOT WEAR GLOVES WHILST OPERATING THIS EQUIPMENT!
- HAZARD! Always check the rate of cut and stop lengths BEFORE engaging POWER FEED on quill feed and traversing table
- NEVER place any part of your body inside the guarded area
- NEVER – Use equipment if a danger tag has been attached.
- ALWAYS - Report all faults to Team leader.

2.3 PPE

- Safety glasses with side shields
- Face shield
- Work clothing
- Safety foot wear
- Ear muffs or ear plugs

### **3 MACHINE ENVIRONMENT**

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3.1 see section 4 or manual for details on controls.

- cuts, rotating equipment, electric shock & dust
- provide guarding
- emergency stop

- PPE ear muffs or ear plugs, eye protection face shield, dust mask p2
- lighting
- ventilation
- dust extraction
- appropriate clothing and footwear
- maintenance and inspection

### **4 OPERATION**

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#### 4.1 Pre Start up

- Make sure you have been properly instructed in the use of the Machine and trained to do so by an authorised person.
- Make sure the machine is in a safe mode ie - is not in operation.
- Check all guards and covers are in place

#### 4.2 Start up - operation

- Never leave chuck key in chuck
- Ensure all adjustment slides are secure
- Check and adjust operating speeds
- Check and adjust operating speeds
- Ensure feed is smooth and not too fast
- Make sure lubricant is flowing over lathe tool

#### 4.3 Shut Down

- Turn off after machining is finished as per manufacturer's instructions

### **5 MAINTENANCE**

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#### 5.1 General Maintenance.

- For general maintenance see manual

#### 5.2 As Needed:

- Check fluid levels

- Clean as required

#### 5.3 Daily:

- Clean exterior surface of machine
- Do not use abrasive solutions on these surfaces.

#### 5.4 Weekly

- Check safety systems

#### 5.5 Monthly

- Walk round inspection

#### 5.6 Yearly

- Have unit fully serviced by qualified technician.

### **6 TROUBLE SHOOTING**

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Common problems that may occur are described in detail in the user manual. Refer to this document for detail.

### **7 REFERENCES**

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#### 7.1 Manual:

- A copy of the manual is kept in machine shop filing system.

#### 7.2 Legislation:

- OHS Act 2004
- OHS Regulations 2007

#### 7.3 Australian Standard

- 1337 Eye protection
- 1270 Hearing protection
- 4501 Occupational Protective Clothing