

# ~ FABRICATION ~



METALWORK

## OPERATING INSTRUCTIONS



METALWORK

INTRODUCING

*the*



# DREMEL TOOL



### The Dremel multi-tool and Pen Accessory

Access Level 1 (see Metal Workshop induction Guide on Access Levels)

Multi-purpose rotary tool with attachments.

Can be set up to drill, sand, grind, cut, bore, polish etc.

### PPE Basic

- Suitable work coat (provided)
- Ear Defenders or Ear Plugs if working near loud machinery (provided)
- Spectacles, Goggles or Faceshield to BS/EN 166 (provided)
- Dust mask (temporary or fixed) rated to FFP1/FFP2 (provided)
- Stout footwear

### What to do before use

- RECEIVE an induction into the fabrication area
- INFORM a member of staff BEFORE starting work
- VISUAL check of the tool for signs of damage
- IF STUDENT, report any faults to any member of the workshop academic technical staff
- IF STAFF, log in the fault via the Fault Reporting Log Book - then email technical team, to report if machine requires maintenance or servicing and whether it will be out of operation and for how long
- AREA AROUND the working environment is clear, tidy and free from obstruction?
- ADEQUATE overhead/natural/machine lighting?
- ENSURE that the LEV/Extract bench is working BEFORE using the tool

## How to Use This Dremel Tool

- Plug in but **DO NOT** switch on yet
- **INSERT** the required tool bit into an **APPROPRIATELY-SIZED** Dremel collet
- Press the bright Steel collet locking button and **ROTATE** the whole collet until you feel the **INNER** collet holder lock, allowing the **OUTER** collet ring to rotate
- **CONTINUE** to hand tighten the **OUTER** collet ring, and then switch to the **LOCKING** spanner that should be with the Dremel tool set. The working bit should now be fixed to the tool
- **BEFORE** switching on, **SET** the speed controller down to 0 or **OFF** on the slide speed control. This will **PREVENT** the tool from suddenly **PULLING** in the operators hand when switched on. This is **ESPECIALLY** dangerous with **CUTTING DISC** attachments
- Make sure the Pen attachment cable **DOES NOT** become too **ACUTELY CURVED** or the rotating **INNER** Steel core will rub and **OVERHEAT** against the **OUTER** cable sheath, causing the tool to **JAM**
- Switch **ON** the Dremel at the wall socket
- **MOVE** the slider **SLOWLY** up the speed gauge to setting 1 and turn the tool so that the bit is pointing **DOWN**. Should the bit be loose, it will fall down **NOT** up towards the operator
- If the bit does not fall out, slide the speed controller to the **RECOMMENDED** speed for the bit and the material being worked on and begin working
- If appropriate **USE CRAMPS** or **LOCK DOWN** the object to be worked on to ensure a **STABLE** working platform
- Once finished, **STOP** the machine by returning the speed controller to 0 or **OFF** and allow it to come to a **COMPLETE** stop before putting fingers near to the bit area
- Switch **OFF** the tool at the socket **BEFORE** removing the bit from the collet
- **CLEAN UP** the work space using the **LEV/Extraction** bench or a hoover and **PUT BACK** any tools you have used

Date

I verify that I have read and understood the information detailed within this document

Name

Signature