

~ FABRICATION ~

OPERATING INSTRUCTIONS



WOOD



WOOD

INTRODUCING

the



SURFACE PLANER



Top Surface Planing Machine, wood workshop. For use with wood only

Access Level 3 (see Wood Workshop induction Guide on Access Levels)

Machine used to dress and level one side of a plank of wood. A rapidly rotating steel blade is set just proud of the work table and the wood is slid over the blade edge to plane the surface and level that face of the wood

PPE Basic

- Suitable work coat (provided)
- Spectacles, Goggles or Faceshield rated to BS/EN166 (provided)
- Ear Defenders (if adjoining process, including LEV) or Ear Plugs (provided)
- Stout footwear

What to do before use

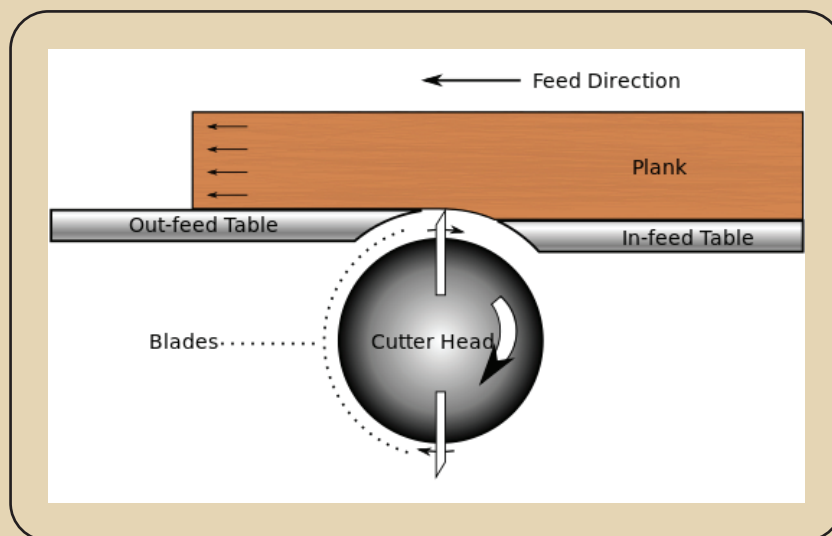
- **MAKE SURE** the wood room is **AVAILABLE** for use via the technical staff (Open access control)
- **RECEIVE** an induction into the area **BEFORE** starting work
- **INFORM** a member of staff **BEFORE** starting work
- **VISUAL** check of machine for obvious signs of damage
- **IF STUDENT**, report any faults to any member of the academic/technical staff
- **IF STAFF**, log in the fault via the Fault Reporting Log Book – then email technical team to report if the machine requires maintenance or servicing and whether it will be out of operation and for how long
- **BOOK IN TIME** with a technical member of staff as the machine is **CLOSELY CONTROLLED** and access to this equipment is carried out **ONLY** with a member of staff supervising
- **DO NOT USE RECLAIMED WOOD** or **WOOD YOU ARE UNSURE OF ITS ORIGIN** – this may have unseen nails or other objects embedded into it which may be extremely dangerous to the operator during machining
- **ENSURE** the LEV/Extraction is fitted and operational **BEFORE** using the machine

- **Push sticks, push blocks, bespoke templates with handholds have a MINIMUM SAFE recommended distance of 200mm from hand point to exterior profile of cutting tool.**

How to Use This Surface Planing machine

- **INFORM** a member of staff that you would like to plane some wood material down (**ONLY** wood)
- **Set the DEPTH OF CUT** by lowering or raising the **IN-FEED** table using the folded adjustment handle on the **SIDE** of the machine
- **PULL** the **BLACK** handle; it is sprung- loaded and will flick out
- **ROTATE** the handle **CLOCKWISE** to lower the in-feed table (**INCREASE** depth of cut)
- **ROTATE** the handle **ANTI-CLOCKWISE** to raise the in-feed table (**DECREASE** the depth of cut)
- The **RECOMMENDED** safe working depth of cut for top-planing most woods is **NO MORE** than 2mm
- When the required height is achieved **PULL BLACK HANDLE** towards you and fold over
- Turn power **ON** at isolation box on **FRONT OF MACHINE**
- **MAKE SURE** the delta switch is **TURNED OFF** - this is the triangle sign on switch **ABOVE** big red emergency off button
- Turn the power switch **ON** - flick switch from 0 to 1 next to the delta switch on side of machine
- Turn **DELTA SWITCH** from 0 to **RUN** (letter Y). This powers up the machine motor to the **OPERATING SPEED** in a few seconds
- Once up to **SPEED**, flick switch onto **DELTA** (the triangle symbol)
- **SET THE HEIGHT** of the planing block **GUARD** to **NOT MORE THAN** the thickness of the little finger (10mm) **ABOVE** the timber to be worked
- **IDEALLY**, the planing block guard height should be **AS CLOSE** as possible to the top surface of the wood being planed, **WITHOUT INTERFERING** with the wood's progression **ACROSS** the planing block
- **YOU MUST** continually adjust the height of the planing block guard. Failure to do so increases the **GAP** between the guard and the wood, allowing fingers to slip unimpeded onto the plane blades
- In top surface planing operations, the face of your wood that is to be smoothed down, should always **FACE DOWN** and rest on the surface on the **IN-FEED** table
- **MAKE SURE** that any bow or **SLIGHT** warpage in the wood is facing down (a unhappy smile). **AT LEAST 2** points of contact must be achieved for the wood to **SAFELY** travel **ACROSS** the planer block

- The board is fed From the **IN-FEED** table **STEADILY, ACROSS** the planer block and **TO** the **OUT-FEED** table – this is usually **AGAINST** the rotating direction of the planer block
- **PASS** your wood repeatedly over the planer block, adjusting the **GUARD** as you go, until the planed surface is **COMPLETELY** smooth from one end to the other
- When you are finished, switch the machine **OFF** at **ALL** of the main isolation boxes
- **ALLOW** the machine to slow down **COMPLETELY** before approaching the planing block and adjusting guards
- **YOU MUST** stay with the machine as it runs down to a **FULL STOP** – if you do not **SOMEONE ELSE** may be badly injured against the rotating planing block
- **CLEAN** down the machine using either a Hoover or portable extractor, removing shavings and dust from the surfaces and put the waste in an appropriate waste bin – **NOT** general waste **OR** with **OILY RAGS** – they constitute a fire hazard



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

Date

Name

Signature