

~ FABRICATION ~



METALWORK

OPERATING INSTRUCTIONS



METALWORK

INTRODUCING

the



POLISHING MACHINE



Cruesen (or other) Dual Arbor Polishing Machine

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

Polishes plastic and metal using mildly abrasive fabric mops

PPE Basic

- Suitable workcoat (provided)
- Spectacles, goggles or faceshield rated to BS/EN 166 (provided)
- Sturdy boots will help keep your feet on a slippery floor

What to do before use

- CHECK the machine is in good working order and generally clean
- ENSURE the floor surrounding the machine is also CLEAN AND FREE from dust or clutter
- ENSURE all guards that are fitted are functional BEFORE operating
- ENSURE all START and STOP controls are functional BEFORE operating
- ENSURE all Emergency Stops are clear and not broken (visual) BEFORE operating
- ENSURE hair is tied back, ties and work badges are kept inside work coat, loose clothing secured inside work coat

How to Use The Polishing Machine

- If using a machine with ONLY polishing mops, do the following:
- Ensure the machine is ISOLATED before winding on a stitched or loose-leaf polishing mop
- The mop should always screw on the mop in REVERSE of the machine rotation until it is good and tight

- **Switch ON the machine at the isolator**
- **Put ON eye protection; faceshield, spectacles or goggles**
- **DO NOT wear gloves at all with this machine**
- **Switch ON any extraction system you might have connected to the machine**
- **Switch ON machine via the GREEN ON button. The machine will START slowly and build speed rapidly**
- **Once at speed, bring the wax lubricant to the face of the mop, keeping a FIRM GRIP of the wax block and with a good wide stance before the machine**
- **SLOWLY bring the wax to the surface of the mop for just a few seconds, until it changes to a paler colour. Put the wax down somewhere that DOES NOT require you to reach over a running machine to pick it up**
- **MAKE SURE the material to be polished has NO burrs or saw marks**
- **Your instructor should advise you which types of wax abrasive is suitable for different materials**
- **For plastics, we recommend CHROMAX or similar, which has a very fine grain, suitable for producing polished edges on plastics and certain non-ferrous materials**
- **Steels require SteelCut, which is slightly coarser and designed to polish-out already smoothed or machined edges**
- **To work safely, ALWAYS polish your work BELOW CENTRE of the rotating wheel. This ENSURES that should the work catch the mop, it is ejected quickly AWAY from you and NOT TOWARDS you**
- **SLOWLY introduce the material against the mop, making FREQUENT observations of the polishing as you continue working**
- **TAKE GREAT CARE with stitched mops on plastics or non-ferrous materials; they will melt and burr the surface very quickly under the action of the abrasive wax and the mop if the material is pushed TOO HARD against the mop surface or held against it for too long.**
- **Take a FIRM GRIP of your material and feed STEADILY from side-to-side along the edge you want polished**
- **Sometimes, it is better to work at a SLIGHT TWIST ANGLE against the action of the mop. Your instructor will show you good and bad technique. Don't worry about the black residue; this is a NATURAL action of the wax abrasive**
- **Feed the wax abrasive FREQUENTLY and CAREFULLY**
- **When you are happy with your polished edge, switch OFF the machine with the large Red STOP button on the machine**
- **Allow the machine to come to a COMPLETE stop but DO NOT leave the machine running AT ANY TIME**

- **DO NOT jam anything against the mop as it slows down to decelerate the wheel more quickly – you can do yourself CONSIDERABLE HARM in doing so**
- **Once stopped, CLEAN down the surfaces and SURROUNDING floor or dust and fabric**
- **Switch OFF the extract**
- **Switch OFF the machine power on the wall isolator**

Date

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

Name

Signature