~FABRICATION~



OPERATING INSTRUCTIONS





the



PPF Rasic

DROP SAW



Continuous Horizontal Band Metal-Cutting Drop Saw Access Level 3 (see Metal Workshop induction Guide on Access Levels) Cutting down lengths of different types of metals only

	Suitable work coat (provided) Safety glasses or Faceshield, rated to BS/EN166 (provided) Leather gloves ONLY while handling metal stock and loading into machine Stout footwear NO GLOVES to be worn DURING machine operation Keep rings, ties and dangling jewellery tucked away or removed Keep hair tied back	
Who	to do before use	
W II a		
	Check machine isolator is in the OFF position	
	Ensure SOMEONE knows you are using the machine	
•	IF STUDENT , report any faults to any member of workshop academic/	
	technical staff	
•	IF STAFF, log 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	
•	A BRIEF RUNNING CHECK of the fitted blade, i.e. under power - watching	_
	& listening for reportable faults - is advised before use	
•	Fixed GUARDS fitted and in good condition?	
•	AREA AROUND the band saw is clean and tidy and free from obstructions?	
•	ADEQUATE overhead/natural/machine lighting?	
•	Know the LOCATION of the START and STOP controls, as well as the	
	EMERGENCY STOPS - including those on the machine	

	Ensure SAFE AND CORRECT manual handling of large or heavy metal stock and additional support is available for long lengths. ASK for a	
	second person to assist with the stock carrying and loading, should it	
	be required	
ı	LIFT the blade and LOCK it off to stop the saw falling down inadvertently	
	during loading or unloading	
	ENSURE the stock is clamped securely in the machine vice BEFORE	
	using the machine	
	ENSURE that the blade supports are correctly adjusted BEFORE using	
	the machine and that they are LOCKED into position	

How to	Use This Band Cutting Drop Saw	_
•	Switch the machine ON at the wall ISOLATOR	
•	After running through the above checklist, press the START button to	
	switch ON the motor and run the band UP TO SPEED for a few seconds	
•	ADJUST the cutting speed of the blade, depending on the material;	
	slower for Steels, slightly faster for Copper and Brass and faster still	
	for Aluminium	
	ENSURE that the cutting fluid is correctly positioned, is flowing cleanly	
	and is being retained within the fluid bath by the machine. If it is not,	
	STOP the machine immediately and check with a member of technical	
	staff	
	ADJUST the band FALL RATE, according to the TYPE of metal you are	
	cutting. Technical staff can help you with this. If in doubt, STOP the	
	machine	
	There should be very little VIBRATION or NOISE from the machine, other	
	than via a running motor. EXCESSIVE vibration or noise indicates a	
	problem. STOP the machine immediately and check with a member of	
	technical staff	
	At a pre-set depth, the machine will AUTO-STOP the cutting process and	
	switch off the motor. This depth stop is usually pre-set by technical	
	staff and should not be touched at all	
_		
•	Once the stock has been cut through and the machine stopped, LIFT	
	the blade CLEAR of the work and LOCK into position, if the stock is to	
	be fed through again or removed if the job is complete	
•	Although you don't need to ISOLATE the machine after EVERY cut in a	
	series, you SHOULD ISOLATE the machine if ADJUSTMENTS must be	
	made to the settings, the holding vice or blade changes - or when you	
	have finished your stock cutting	

•	REMOVE metal swarf from the machine using gloves and a sweeping brush and pan. WEAR GOGGLES or EYE PROTECTION to protect against swarf being ejected into the eye or cutting fluid being splashed Put the metal waste into a suitable waste bin - NOT general waste. Metal swarf should be stored in a lidded, metallic bin, capable of resisting fire OILY RAGS should NOT be stored in this bin as it MAY cause	
	spontaneous fire due to sparking in a flammable environment	
Date	I verify that I have read and understood the information detailed within this document	
Name	Signature	