



**Risk Assessment – Use of Grinder/Disc Cutter/Slitting Disk.**

<b>Company:</b>	SES Engineering (Newark) Ltd	<b>Date:</b>	16.05.2022	<b>Review Date:</b>	16.05.2023	<b>Ref:</b>	SES/0040
-----------------	------------------------------	--------------	------------	---------------------	------------	-------------	----------

<b>Operation:</b>	Use of Grinder/Disc Cutter/Slitting Disks.			<b>Persons at risk:</b>	Employees, 3 <sup>rd</sup> parties		
<b>HAZARD</b>	<b>Assessment</b>			<b>CONTROL MEASURES TO REDUCE THE RISK</b>	<b>Re-assessment</b>		
	<b>S</b>	<b>L</b>	<b>R</b>		<b>S</b>	<b>L</b>	<b>R</b>
Abrasion or entanglement with rotating disc.	3	3	9	Disc cutter to be correctly attached to the disc and attached/operated by trained personnel only. All personnel to be clear from the area of the disc whilst disc cutter is attached to power supply. Disc cutter never to be left unattended whilst connected to power supply.	3	1	3
Contact with cutting head.	3	3	9	All personnel to be clear from the area of the disc whilst disc cutter is attached to power supply. Disc cutter never to be left unattended whilst connected to power supply.	3	1	3
Electrocution.	4	3	12	Equipment to be visually inspected before each use and taken out of use if damaged in any way. Equipment to be tested for electrical safety at appropriate intervals by a competent person.	4	1	4
Materials ejection.	3	4	12	Safety glasses/goggles and or face shield to be worn by all persons in close proximity whilst disc cutter is in operation.	3	1	3
Manual handling.	3	3	9	Use correct techniques when moving equipment to working area. Seek assistance where required – do not attempt to move heavy or awkward items without assistance.	3	1	3
Damage to equipment.	3	3	9	Machinery to be taken out of use and line management informed immediately if equipment is damaged or has been subject to event which may have caused damage.	3	1	3
Slips, trips, and falls.	3	3	9	Check route of travel prior to moving disc cutter to its working area for obstructions and potential slip/trip hazards. Ensure power cable to disc cutter is not located in a position which could create a trip hazard.	3	1	3
Damage to eyes.	3	4	12	Face shields must be worn at all times during all operations. Screens around the work area will prevent other personnel being affected.	3	1	3
Inhalation of dust.	3	3	9	Local exhaust ventilation and respiratory protection to be used.	3	1	3



Inhalation of fumes.	3	3	9	Local exhaust ventilation and respiratory protection to be used.	3	1	3
Excessive noise.	3	5	15	Ear protection must be worn during all operations.	3	1	3
Hand Arm Vibration. (HAVS)	3	3	9	Do not use equipment for prolonged periods. Take regular breaks and ensure daily usage does not exceed manufacturer's recommendations and keep hands warm. Report any problems immediately.	3	1	3
Cold weather	3	4	12	Cold weather can increase the effects of vibration. To prevent this it is important to keep hands warm. Gloves should always be worn to prevent cold increasing the effects of vibration. It is also important to wear warm clothes in cold weather as this significantly improves blood flow, therefore reducing the risk of vibration. The level of blood flow is significantly reduced in those who smoke; therefore, smokers should be aware of the need to take all extra steps to reduce the level of vibration and the effects it has on the body. See hand arm vibration exposure guides.	3	1	3
Fire.	4	4	16	Relevant fire extinguishers must be in the immediate vicinity. Clear the area of combustible materials before commencing work and check for signs of ignition when finished.	4	1	4

Likelihood →	Likely (5)	Probable (4)	Possible (3)	Unlikely (2)	Very unlikely (1)
↓ Severity					
Death (4)	20	16	12	8	4
Major Injury (3)	15	12	9	6	3
Minor Injury (2)	10	8	6	4	2
No Injury (1)	5	4	3	2	1

**KEY:** S = Severity

L= Likelihood

R= Risk rating

12-20 High risk
8-10 Medium risk
1-6 Low risk

**PPE Required:**

Hard hat	Y
High vis clothing & boots	Y
Eye/ ear protection	Y
Suitable gloves	Y
Respiratory equipment	As necessary
Safety harness	As necessary

Risk assessment to be reviewed every 12 months or following an accident / incident.