

USSL Risk Assessment

Risk Assessment No		67		Activity		Using a Pillar Drill		Locations		Workshop / Garage		
Assessment Undertaken by		M. Watson		Assessment Date		Jun-17		Review Date		1/6/18		
Risk Ratings												
Persons at risk (PAR)		Severity / Harm Rating (S)				Likelihood (L)						
E	Employees / Contractors	1	Negligible injury or no injury				1	Extremely unlikely to occur at any time				
P	Members of Public	2	Minor injury requiring First Aid				2	A rare combination of factors would be required for an incident to occur				
V	Visitors	3	Lost time injury				3	Could happen, but considered unlikely under normal circumstances				
C	Clients	4	Single serious injury or single death				4	Not certain, but an additional factor may result in an incident				
		5	Multiple deaths and or serious injuries				5	Almost inevitable that an incident will result - Highly likely to occur				
Tolerance rating												
15 - 25		DANGER - Task/activity should not proceed. Further control measures are to be put in place to reduce risk. When in place the level of risk should be re-assessed for adequacy before the										
7 - 14		SIGNIFICANT RISK is attached to this task/activity. Look critically at ways of reducing the level of risk to a more tolerable level by improving existing control measures or by introducing new										
1 - 6		TOLERABLE RISK - Consider if risk is "as low as reasonably practicable", If not try to reduce risk further by improving control measures. Keep under review and continue with task/activity,										
NB. Full PPE will be utilised as a matter of course during any works undertaken												
Initial Assessment No controls						Risk Mitigation Measures						
Item No	Hazard Identification	PAR	S	L	Score	Control Measures	S	L	Revised Score	Risk Acceptable		
1	Entanglement / Exposure to Chuck and Bit	E	5	4	20	Long hair and loose clothing secured Dangling jewellery removed Gloves or bandages should not be worn Fixed guards (removable only with a tool) or interlocked guards must enclose drive pulleys and belts Machine only to only used by personnel after training on safe operation of that piece of equipment	5	1	5	Yes		
	Chuck keys, broken drills, swarf, dust and work pieces can be ejected	E	5	4	20	Chuck key must be removed before starting the machine and after the work is completed Chuck key should preferably be spring loaded Chuck guard should extend to the bottom of the drill bit when it is in the uppermost position Table should be adjusted so that as the drill leaves the guard, it enters the work piece When using a specialist printed circuit board drilling machine, the need for a guard should be determined by a specific risk assessment Drill bits should be ground and sharpened correctly Suitable eye protection available near to machine Eye protection stickers on machine Eye protection in use at all times	5	1	5	Yes		
2	Lack of space around machine	E	5	4	20	Sufficient space around the machine to prevent the operator being pushed by passers-by	5	1	1	Yes		
3	Drill table slipping down, heavy objects falling from the table	E	4	3	12	Suitable footwear should be worn A safety collar stop should be used if no rack and pinion rise and fall mechanism is fitted	4	1	4	Yes		
4	Manual Handling	E	3	4	12	Heavy items to be lifted by 2 or more persons. Gloves, eye protection provided must be used	3	2	6	Yes		
5	Contact with fluids, oil and grease	E	4	4	16	Contact with the skin should be kept to a minimum and hands should be washed thoroughly after use	4	2	8	Yes		
6	Slippery floor surface, loose items around machine	E	4	5	20	Floor surface should not be slippery and should be kept free of loose items See BS 4163:2007 Section 4 Working Area Environment	4	2	10	Yes		
7	Electric shock/Inadvertent starting of the machine	E	4	4	16	The machine must have: A means of electrical isolation Fused switch disconnect Starter with overload protection and no-volt release Armoured cable to isolator A foot operated emergency stop device that can quickly stop the machine in an emergency Machine must be electrically isolated before position of the drive belt is changed	4	1	4	Yes		
8	Sharp edges on drills, work pieces and swarf	E	4	4	16	Swarf must be removed using a tool to avoid hand contact PPE Must be worn at all times	4	1	4	Yes		
9	Noise	E	3	4	12	Noise meter in workshop indicates when ear protection is to be used. Ear plug and ear defenders provided Ensure the correct cutting bit is used. Ensure Cutting Bit is sharp	3	2	6	Yes		
10	Slippage of work Unexpected spinning of hand held work pieces	E	4	4	16	Risk assessment should confirm appropriate clamping arrangements, e.g. use of a vice, clamping the work piece to the table etc., depending upon size of drill and size/shape of material	4	1	4	Yes		