Risk Assessment - Workshop - Use of a Cylindrical Grinding Machine

Reference No: GLO-46085-50
Version No: 1
Assessment Approver: Kevin Jarvis

Workshop - Use of a Cylindrical Grinding or universal grinding Machine with centre capability

Department: Global
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Team: David Mullins

Use of a Cylindrical grinding machine in a workshop environment

Type	Hazard Cause	Persons Affected	Control Measures	L S T Overall	Additional Control Measures	L S T Overall	Owner/Action
Health and Safety	Personal Injury Multiple causes included contact with moving parts, sharps objects, entanglement, electrical shock etc.	Volunteers & Staff	1) CRITICAL - Elimination: No loose clothes, jewellery, overly long sleeves, ties or gloves will be worn. - Effective 2) CRITICAL - Elimination: Hands must be kept clear of the rotating or moving parts. - Effective 3) CRITICAL - Engineering: A stop switch will be fitted within the reach of the user. - Effective 4) CRITICAL - Engineering: Machine guards must be fitted, clean, functional and used at all times. - Effective 5) CRITICAL - Engineering: Any fitted safety devices such as foot switches or overloads must be fitted and functional. - Effective 6) CRITICAL - Engineering: The machine will be securely fixed to the floor or other stable and unmovable surface. Those machines that are mounted on wheels must be securely fixed whilst in use to stop them from moving. - Effective 7) CRITICAL - Engineering: The wheel must be securely fixed, in good condition and guarded. - Effective 8) CRITICAL - Engineering: The machine must be switched off and power isolated and locked out where possible before any maintenance activity takes place. - Effective 9) CRITICAL - Engineering: Grinding wheels and cutting tools will be made of a suitable material for the piece being worked. - Effective 10) CRITICAL - Engineering: Rotational and cutting speeds must be set appropriately depending on the task to be carried out. - Effective 11) CRITICAL - Engineering: Sufficient space must be available around the machine to prevent any issues with those passing by. - Effective 12) CRITICAL - Engineering: Floor surfaces must be clean and dry so as not to introduce a slip hazard. - Effective 13) CRITICAL - Engineering: Grinding wheels used must be correctly rated to cover the maximum speed of the machine being used. - Effective 14) CRITICAL - Engineering: Bonded abrasive wheels should be regularly dressed to maintain cutting effectiveness. - Effective 15) CRITICAL - Engineering: The workpiece should be securely held on the grinder holder, chuck or centres - Effective 16) CRITICAL - Administrative: Only competent and authorised staff are to use the equipment. - Effective 17) CRITICAL - Administrative: The equipment will be mechanically and electrically maintained regularly and accurate records of maintenance activity will be kept. All safety features will be tested. - Effective 18) CRITICAL - Administrative: A hair net or cap will be worn by staff with long hair. - Effective 19) CRITICAL - Administrative: The machine must never be left unsupervised if energised. - Effective 20) CRITICAL - Administrative: Only the user and any trainees can be near to the machine when it is in operation. - Effective 21) CRITICAL - Administrative: Only those persons trained and competent can change machine wheels or cutting tools. - Effective CONTINUES ON NEXT PAGE	2 x 4 = 8 Medium - Risk to be minimised and controlled so far as is reasonably practical.	1) Engineering: Consider the use of a dust extraction system in situations where large amounts of dust are generated. - Effective 2) Administrative: Where machine guards are not fitted extra care should be taken to avoid entanglement with moving parts or ejection of materials. - Effective 3) PPE: Wear ear protection if desired and always if noise surveys have indicated that ear protection is required. - Effective	2 x 4 = 8 Medium - Risk to be minimised and controlled so far as is reasonably practical.	Workshop Manager : Ensure guards are fitted as appropriate. Ensure dust and any cutting mist is extracted using LEV

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			22) CRITICAL - Administrative: Care must be taken when touching work pieces after working due to the potential for a burn. - Effective 23) CRITICAL - Administrative: Loose tooling and other equipment or rags etc. must not be kept on the machine or allowed to obstruct the work area. - Effective 24) CRITICAL - Administrative: Grinding wheels should only be changed, balanced etc by a competent person. - Effective 25) CRITICAL - PPE: Eye protection, overalls or dust coat and steel toe-capped footwear mustd be worn. - Effective				

Score and Control Measure Notes.
Risk is medium due to potential injury.
All control measures must be followed.
The risk remains medium.

COSHH Assessments

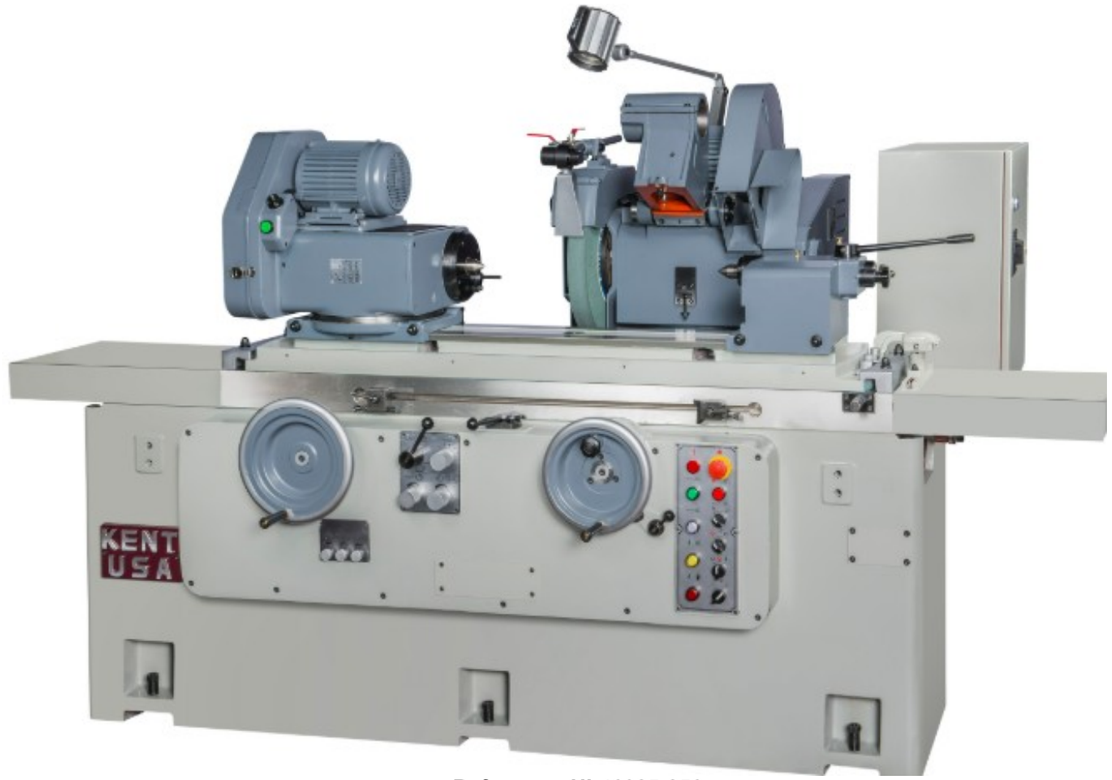
There are no COSHH assessments associated with this risk assessment.

Ends

Appendix



Reference: UI-46085-915
A Jones and Shipman Universal Grinding Machine - Universal grinding machine where cylindrical grinding is an option



Reference: UI-46085-256
Example cylindrical grinding machine - A Kent machine