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THE DRILLING MACHINE

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1. There are two types of drilling machine. What are their names and how do they differ?
Include an image / drawing of each type.

2. Goggles are worn to protect the eyes of the user. List four more safety factors that apply to the drilling machine.

3. Name three drill bits that are used with this machine.
Describe the use of each 'bit'.

4. Draw a labelled diagram of a G-cramp and describe how it can be used.

5. What is the name of this vice?
Describe how it can be used when drilling. Include diagrams.



6. A 'lightweight' machine vice is often used to hold material, when drilling. What is a lightweight machine vice? Describe its use.
Include an image.

9. Why is the red stop button of a machine, larger and easier to use, compared to the green start button? You may need to search the internet for the answer.



8. Why is a rack and pinion system used on some drilling machines?
Include a sketch of a rack and pinion.

7. When drilling metal, hot and sharp metal chippings can 'fly out' of the drilling area. This is a hazard. How can the risk be reduced? (called control measures).

EXTENSION WORK

Describe the use of a Radial Arm Drill.
Include images / drawings