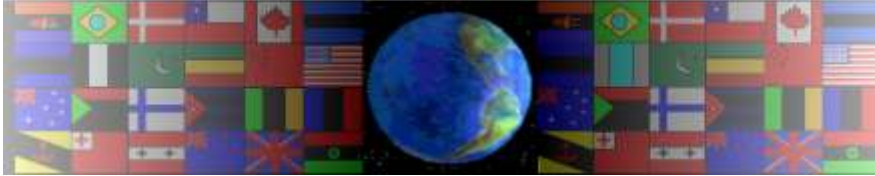


# THE CENTRE LATHE

V.Ryan © 2000 - 2009

On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website ([www.technologystudent.com](http://www.technologystudent.com)) before attempting the design sheet .

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# DRILLING WITH THE CENTRE LATHE

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1. The centre lathe can be used to drill accurately if a suitable attachment called a drill chuck, is correctly fitted. In the space below draw a suitable drill chuck, for use with a centre lathe. Add labels to your drawing.

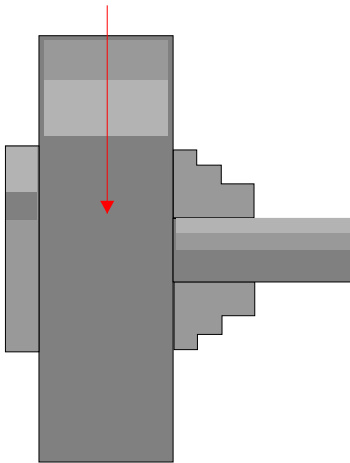
2. Identify the morse taper shaft on your drawing (above) and explain its purpose.

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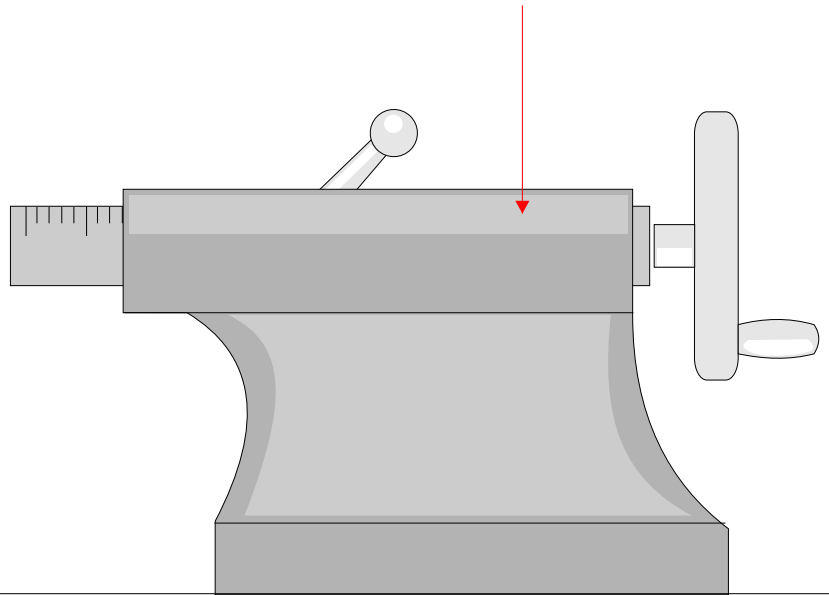
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3. The drawing below is incomplete as the drill chuck is missing. Draw a typical drill chuck in the correct position.

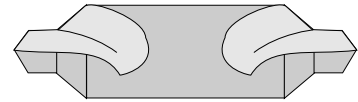
CHUCK



TAILSTOCK



4. A typical centre drill is shown opposite. Describe two techniques that require its use.



COUNTERSINK  
BIT

TECHNIQUE ONE:

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TECHNIQUE TWO:

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5. Why is there a need to apply soluble oil when drilling?

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