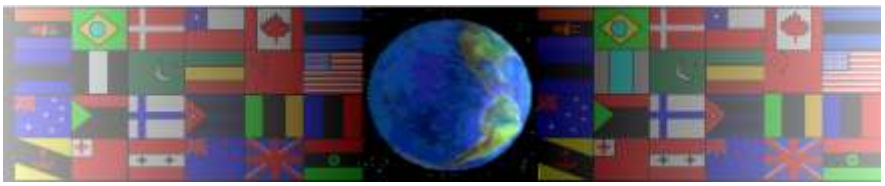
MECHANISMS INFORMATION / WORKSHEETS

On behalf of The World Association of Technology Teachers

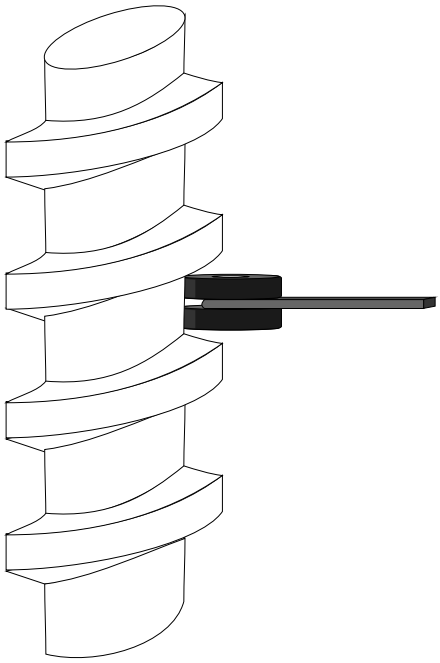
W.A.T.T.



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) before attempting the design sheet .

CYLINDER CAM



A cylindrical cam and its follower are shown opposite. Explain how this type of cam system works.

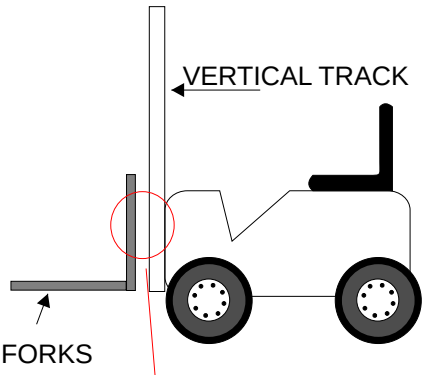
Why is it important that a roller follower is used with this type of cam.

The fork lift truck seen opposite has forks that rise and fall. This is a basic design requirement as the truck is designed to lift and move heavy weights/objects.

Design a mechanical system based on a cylindrical cam and follower(s) that controls the vertical motion of the forks.

Draw your design on the enlarged diagram below adding labels to identify the parts.

Add notes to explain how your system works.



NOTES:

Moving / rotating mechanisms can be a health and safety hazard. List one way in which your design may be a hazard.

How could you protect people from the hazard you have identified?