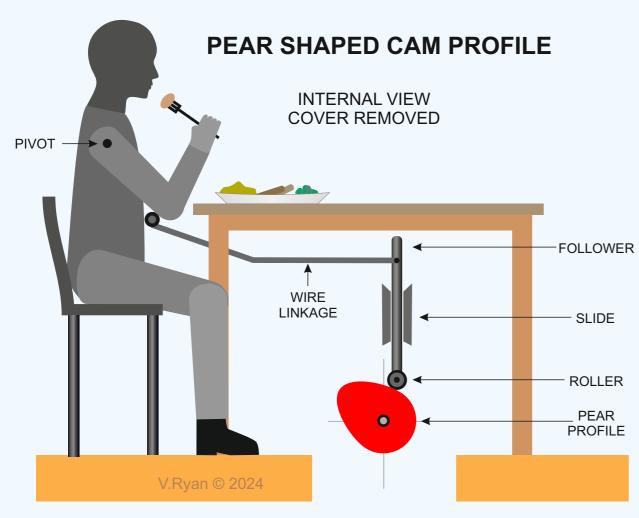
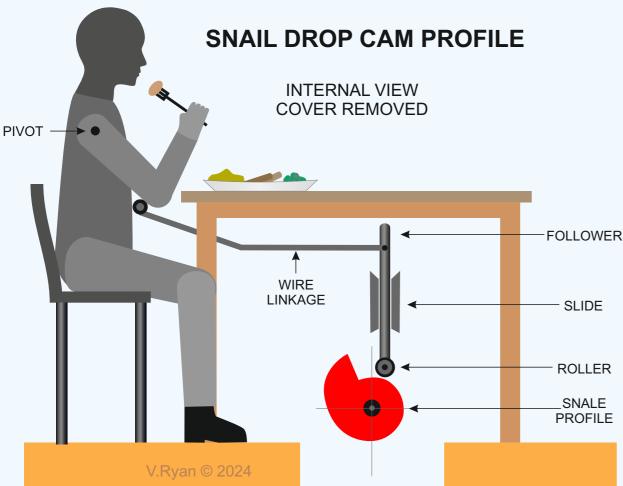
## **COMMON CAM PROFILES**

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

https://www.facebook.com/groups/25496344819282

www.technologystudent.com © 2024 V.Ryan © 2024



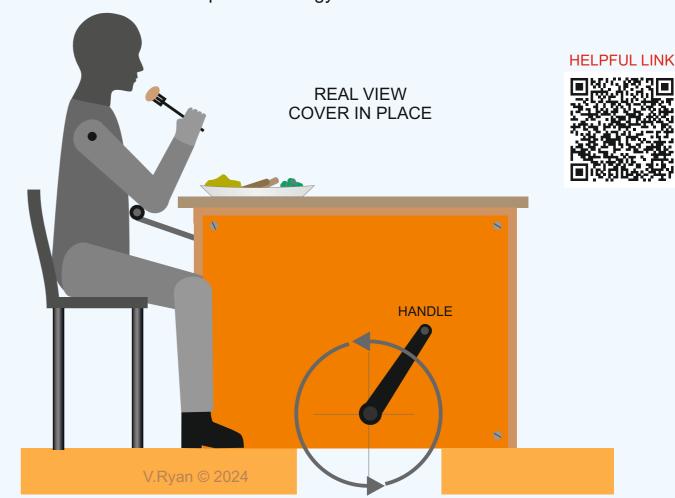


The toy is operated manually by turning a handle (see below). This turns the cam profile, lifting the arm and food towards the 'models' mouth. Installing different cam profiles, gives a slightly different movement of the arm.

The <u>pear shaped</u> cam profile allows for a smoother action as the arm rises and falls. However, for half the rotation of the cam, the arm stays in the same place. The <u>snail profile</u> allows for a smooth rise and a quick / sudden drop of the arm.

The advantage of a pear shaped cam, is that the handle can be rotated in both directions, because the arm lifts and falls smoothly. However, if a snail drop cam is fitted to the mechanism, the handle must be rotated in an anti-clockwise direction only. Otherwise it will 'jam'.

HELPFUL LINK: https://technologystudent.com/cams/camdex.htm

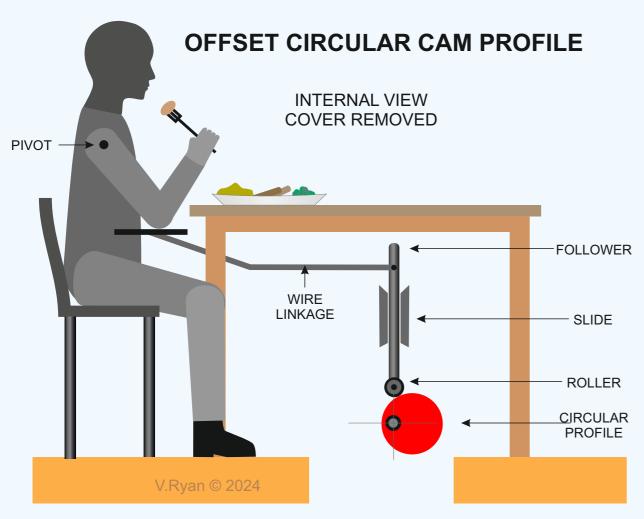


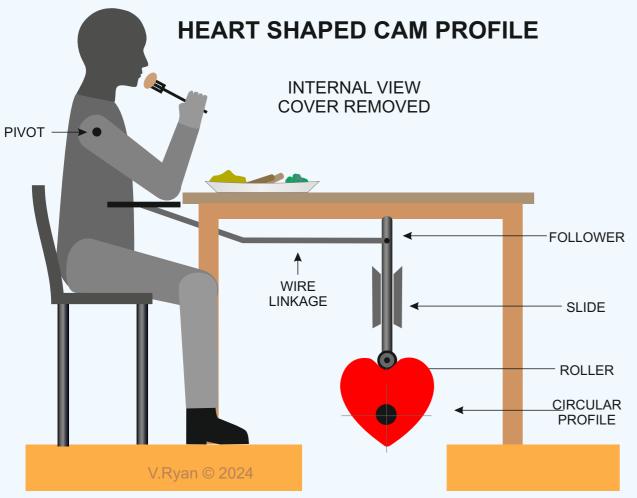
## **COMMON CAM PROFILES**

WORLD ASSOCIATION OF TECHNOLOGY TEACHERS

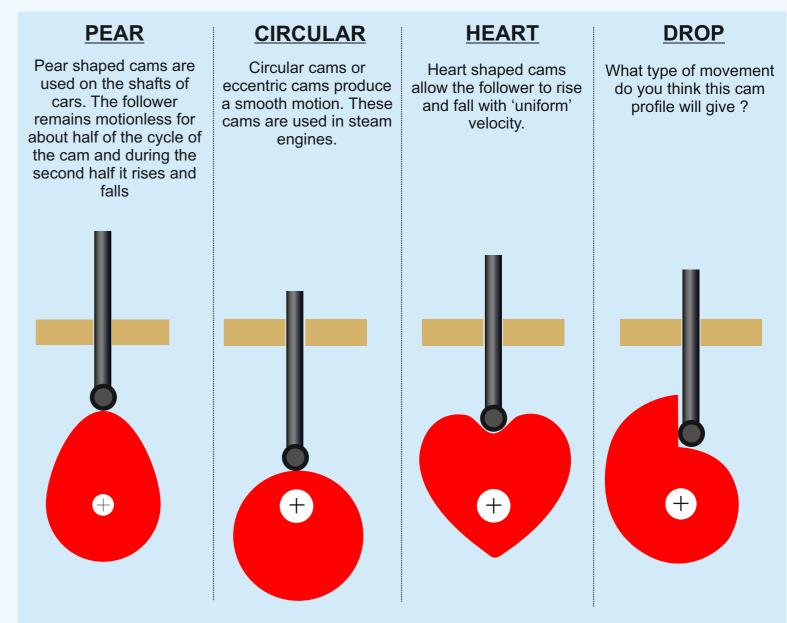
https://www.facebook.com/groups/254963448192823/

www.technologystudent.com © 2024 V.Ryan © 2024









Using an offset circular cam profile, means that alterations have to be made to the follower. The arm now rests on a 'flat' and the circular cam has been lowered. This cam gives a very smooth movement.

A heart-shaped cam profile looks like a heart. It results in a steady rise and fall motion and uniform velocity. However, when applied to this mechanical toy, it does not give a suitable movement of the arm.

HELPFUL LINK: https://technologystudent.com/cams/camdex.htm