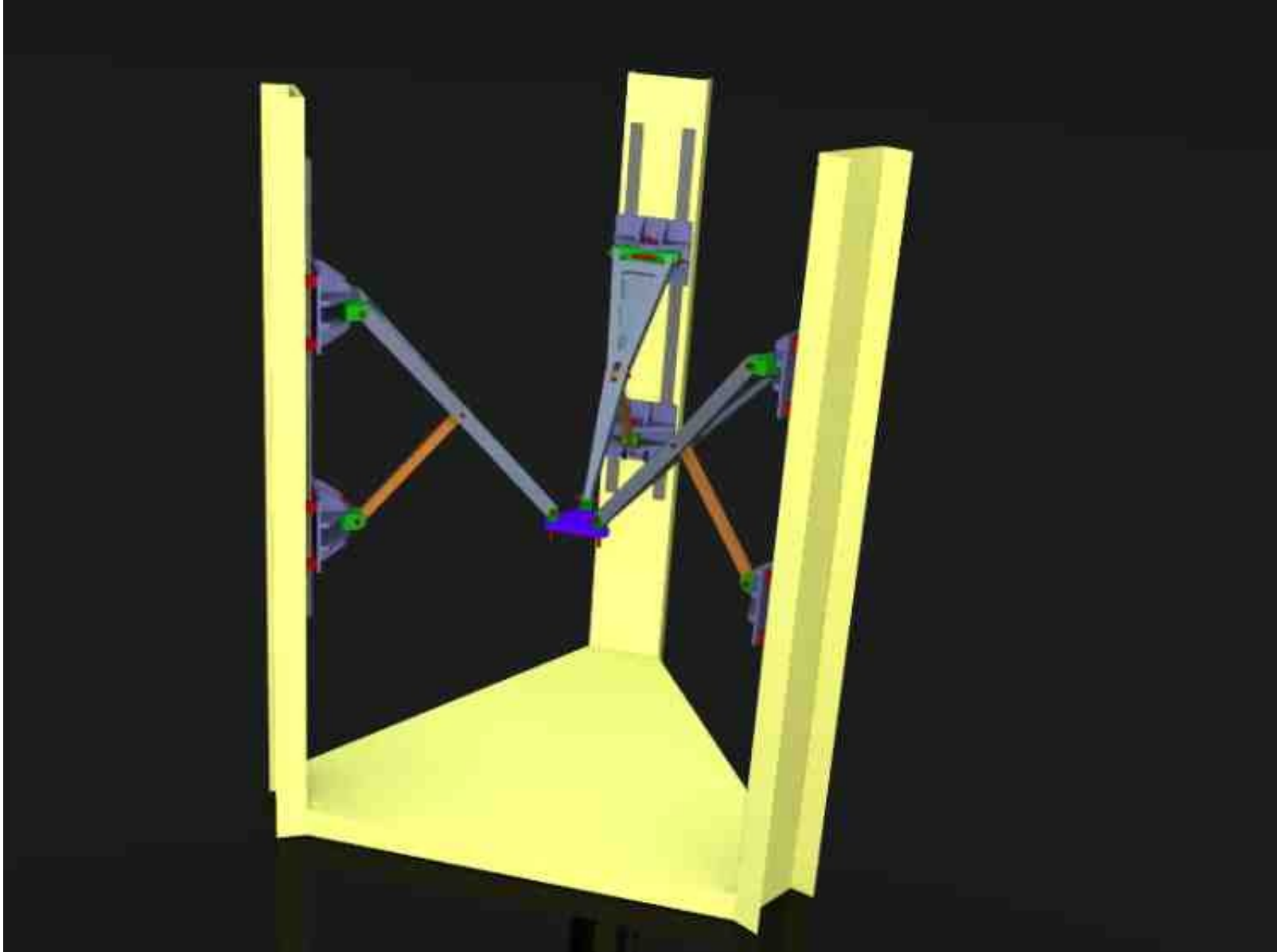


What it could look like??



# What is going on??

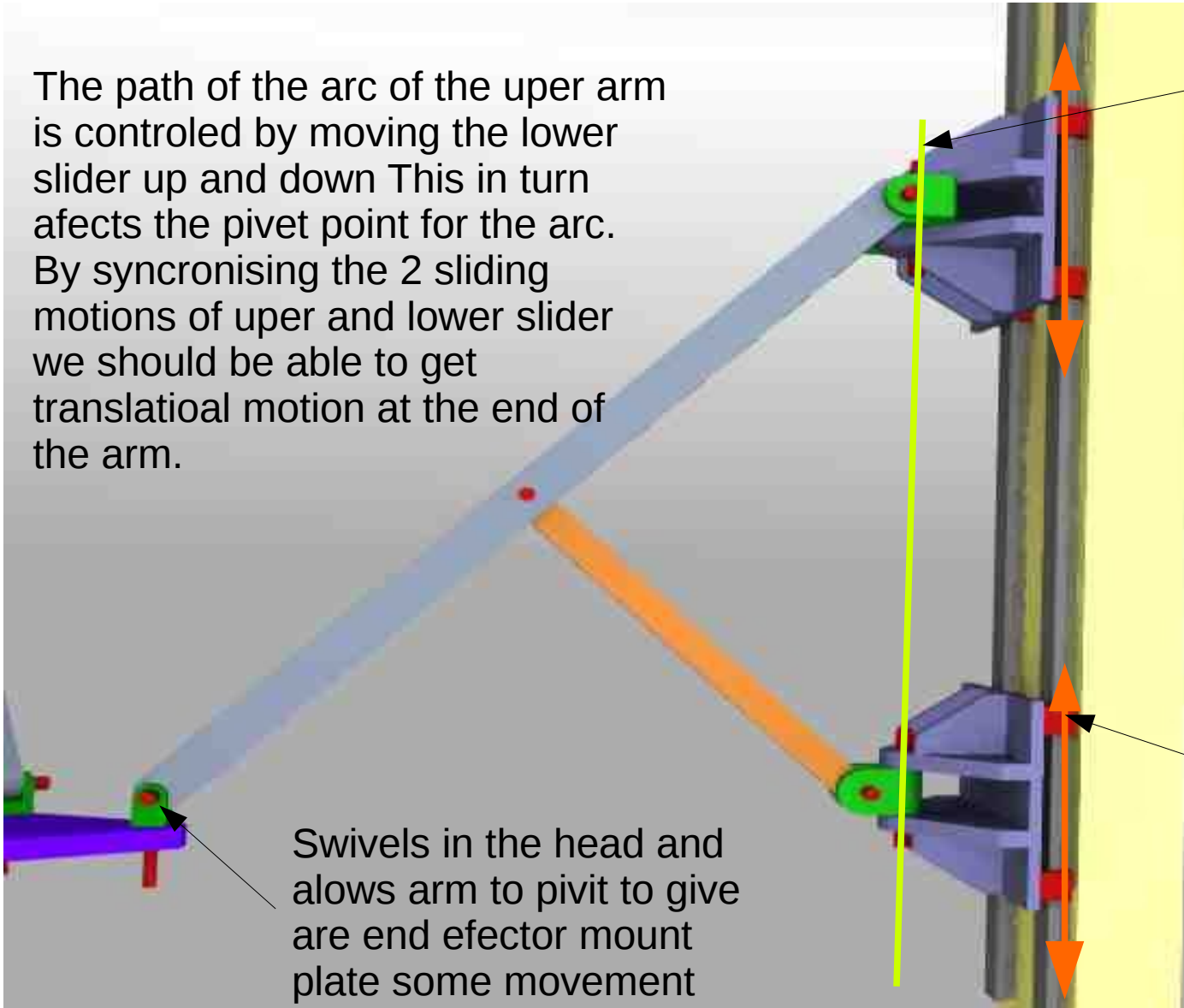
Red Pins pivot, Red Trucks slide...

The path of the arc of the upper arm is controlled by moving the lower slider up and down. This in turn affects the pivot point for the arc. By synchronising the 2 sliding motions of upper and lower slider we should be able to get translational motion at the end of the arm.

Upper and lower arm turn on the same axis  
Yellow line

Trucks move up and down on liner guide independently.  
Orange arrows

Swivels in the head and allows arm to pivot to give end effector mount plate some movement



# What I'm not sure of

- How would you home this type of machine?
- How hard is the math for the kinematics
- Do I have too many variables with the motion for the math?
- Can I use linuxCNC to control this?
- Do I get 5 dof in reality or am i missing something?  
Translation X Y Z Rotation to some extent A and B no C.
- Do I end up with singularities and binding?