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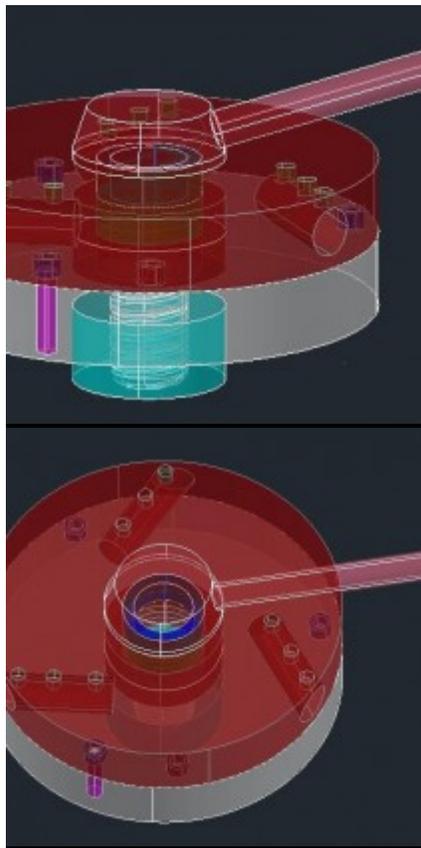
Before getting a lathe i was thinking of some kind of turret which would mount on the end of the cross-side which "light" center drilling, drilling and tapping could be done with. After getting the lathe into the basement it looks like this is not possible, cross-slide too small and not enough travel to keep the turret always mounted, and also use the tool post with out clearance problems.

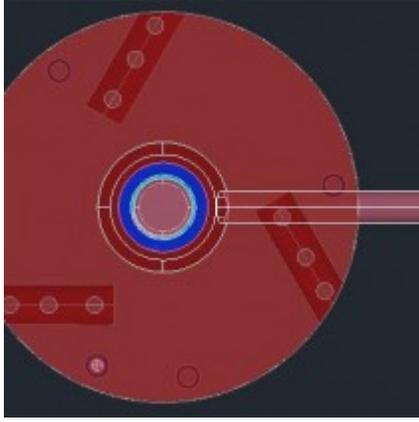
Below are some drawing i started but the project is on hold (might try and re-work the design to work as a tool post replacement similar to the four tool holders current available.)...

Locking with a pin and hole system:

The purple pin in the bottom base is just that, a that pin which would be spring loaded and seat into drill bushing pressed into the bottom of the top half. This was the first idea, there was going to be a spring in-between the two half's, you would loosen a center bold and the spring would push up the upper half, you would then spin the turret to the next station, lock the bolt and back to work.

It was pointed out to me that this would not be the best design because there would be a chance of debris getting between the two halves while rotating, which makes sense. So the second thought was to put a spring under the pin, push the pin down, spin the top half to next station and the pin would spring into the next pocket. If the pin was to move up and down there would have to be clearance for this action and i thought it would cause some rigidity issues.... so this idea was scrapped.

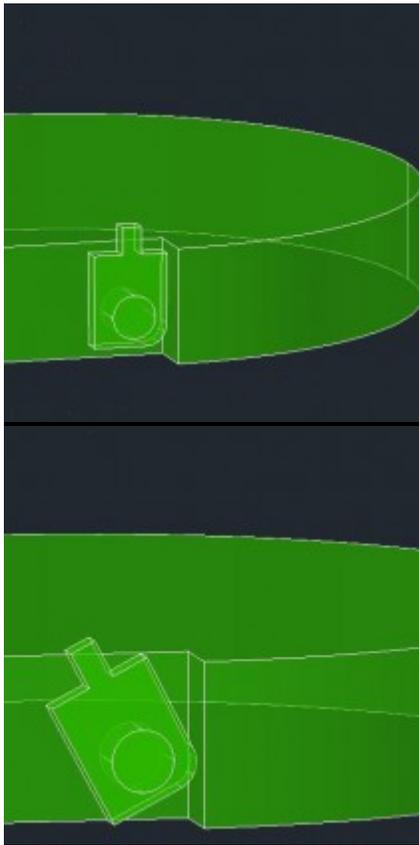


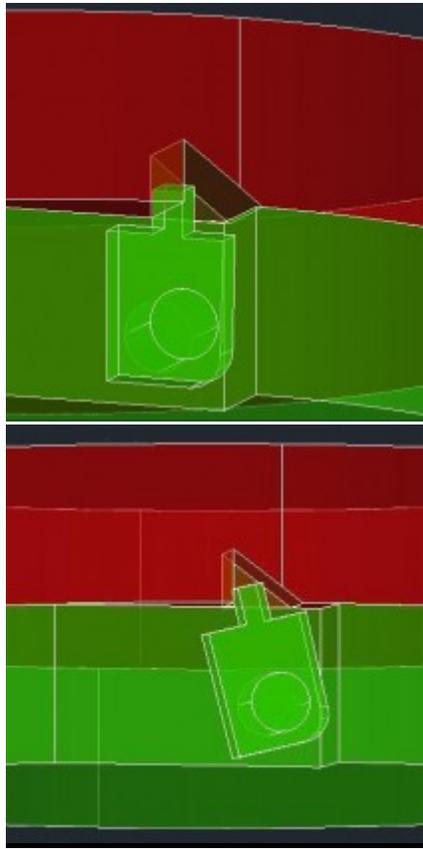


Locking with a 'dog'.

Second idea was to use some kind of "dog" which would pivot. As of last interest in this project, i liked where this idea was going and would have tried to develop it more.

There was going to be a center locking bolt, you would crack that bolt loose, spin the turret clock wise to the next station, make sure the dog was seated with a little presser counter-clock-wise and then lock the center bolt. Was thinking to make the center locking bolt a left-handed thread so when it was tightened it would lock/seat the dog "automatically" with the natural motion of turning it counter-clock-wise to tighten it.





Just about all the machining would be done except for the tool pockets. After it was assembled and mounted on the lathes cross-slide i was going to then machine the tool pockets "in place" so they would be on-center and square to the lathes chuck.

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