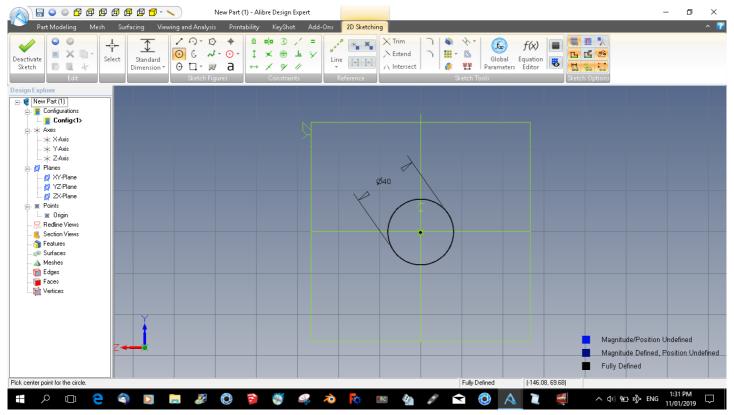
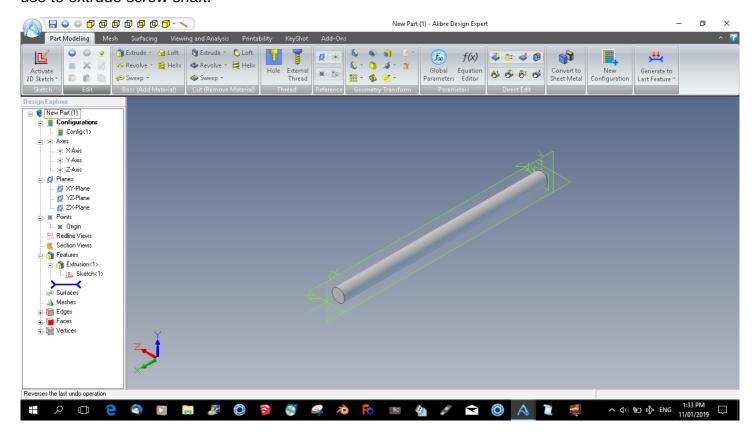


cooper.lawrence.jo@gmail.com

Basic Steps Modelling Oil Press Screw

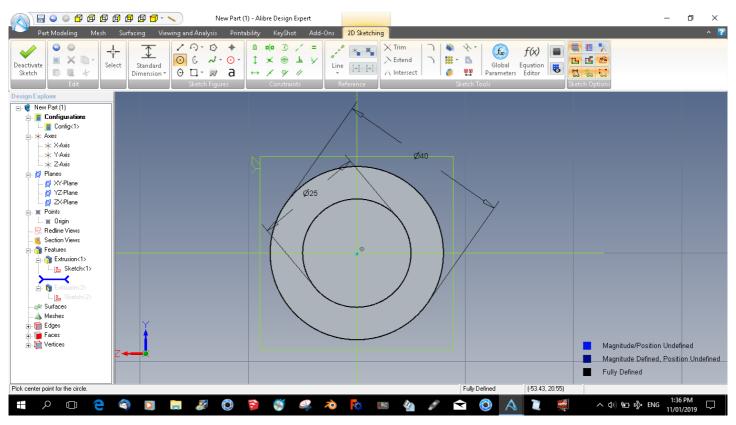


Step 1. sketch on plane a circle the same dia. As the bar stock screw is made from. Close sketch an use to extrude screw shaft.

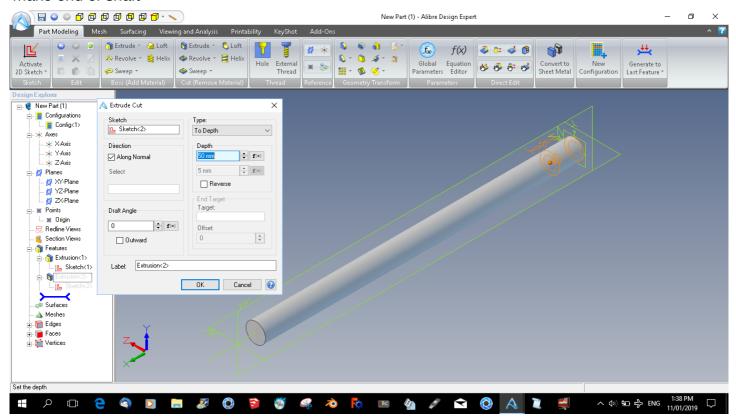




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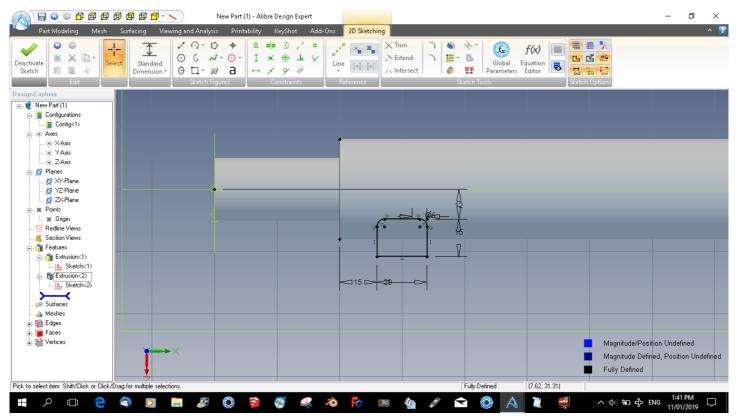


Step 2. sketch on plane of shaft end 2 circles. This sketch will be used to produce an extruded cut to make end of shaft

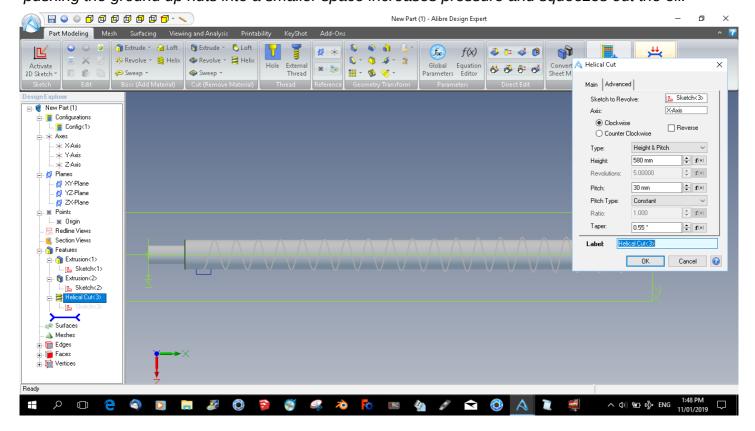




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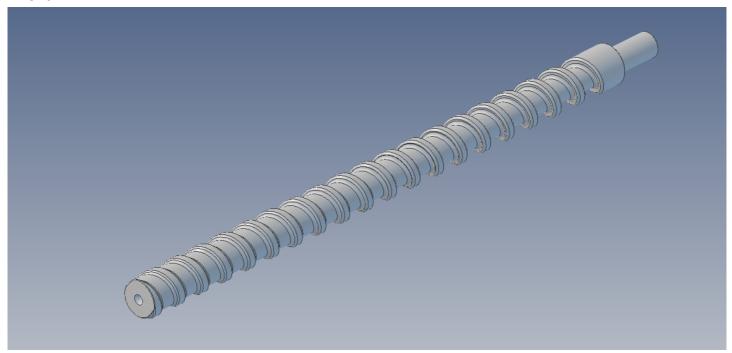
Step 3. We are now going to use the helical cut tool to construct the screw. The image above shows the sketch I used to make this feature. The image below shows the settings I used. Note I put a value of 0.55 deg. In the taper box. Screws used in oil presses are usually made this way as pushing the ground up nuts into a smaller space increases pressure and squeezes out the oil.





cooper.lawrence.jo@gmail.com

Bellow is an image of completed oil press screw. I have added some fillets and a centre drilled hole in end.



Modelling this screw is a simple task and even someone just starting out should be able to work out how this model is made with the tools available in your software. Once you have measured up the screw part you should be able to produce the model in 20 to 30 minuets maximum. if you wish to be employable long term in this industry.

I modelled this using my Alibre Design software. This is a great piece of software, very useful for producing manufacture ready drawings and documents for all of the machines and products I have been involved with the design and manufacture of. I have found this software as good as, and occasionally better than the way more expensive Solid Works or inventor.

Solid works is about six times the price of this product. Alibre Design does not have the surfacing tools and the FEA and CFD tools that are part of Solid Works but as I do not require these and a one sixth of the price purchasing this product was simple choice. The first months work I produced with this software covered the cost of purchase