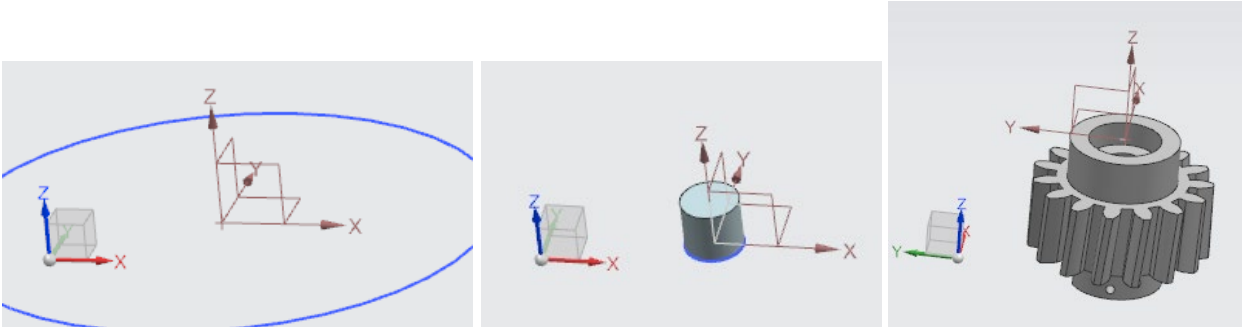


## File Preparation for the Spinner US-620

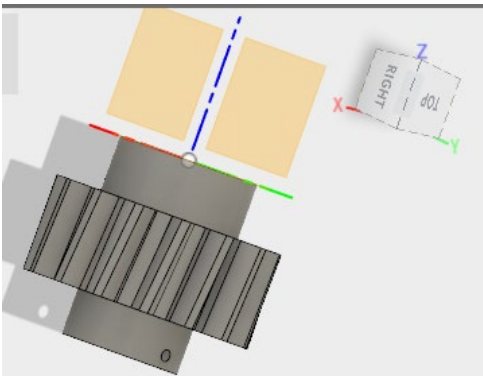
Files provided for the Spinner U5-620 need to be provided as Part, Solid Part, STEP, IGES or IGS format. Dimensions need to be in millimetres (mm).

Please see following images for file export from Fusion 360, Solid Works and Inventor Programs. The image is a generic Image from NX 10, the main Camming Software used in the Digital Manufacturing Lab.

The Spinner U5-620 requires design orientation to take place in the XY orientation, with Z as depth / Height.

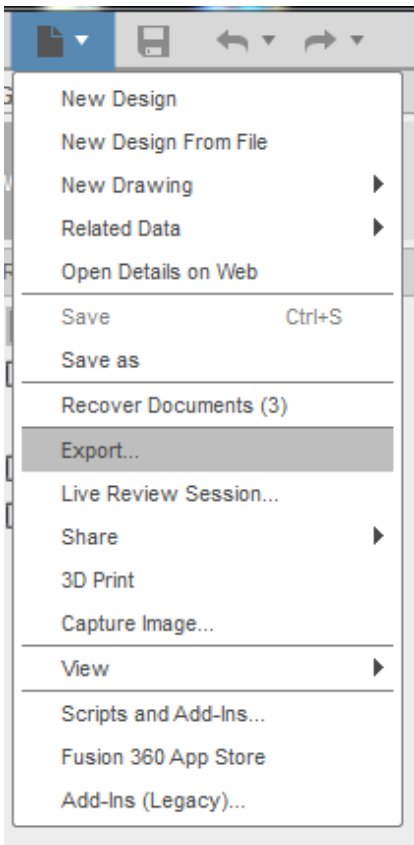


### Fusion 360:



With Fusion 360 part needs to be assigned to home position on coordinates, this is start from 0 point of axis's. The Part still requires to be orientated in the XY plane. This can either be from beginning of modelling or on completion through the Move Function.

Once part is ready for export, select File (Displayed as ear-tagged page in image). Then select 'Export...' using left key on mouse.



This opens the dialogue page for exporting part file to another location such as a thumb drive. Using the drop-down arrow under '**Type:**' select IGES File. Selecting the '...' next to original file location will open '**File browser**' to choose location for part to be saved to, eg Thumb-drive. Then simply hit '**Save**' and IGES will be created in designated file.

## Export ×

---

Name:

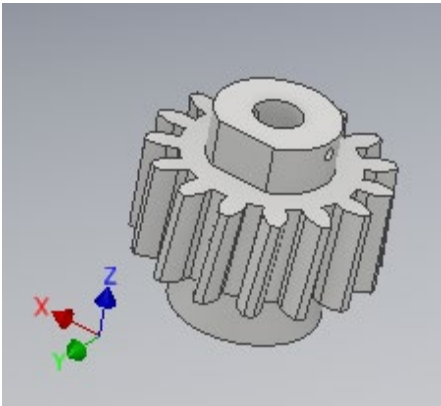
Type:

Save to a project in the cloud

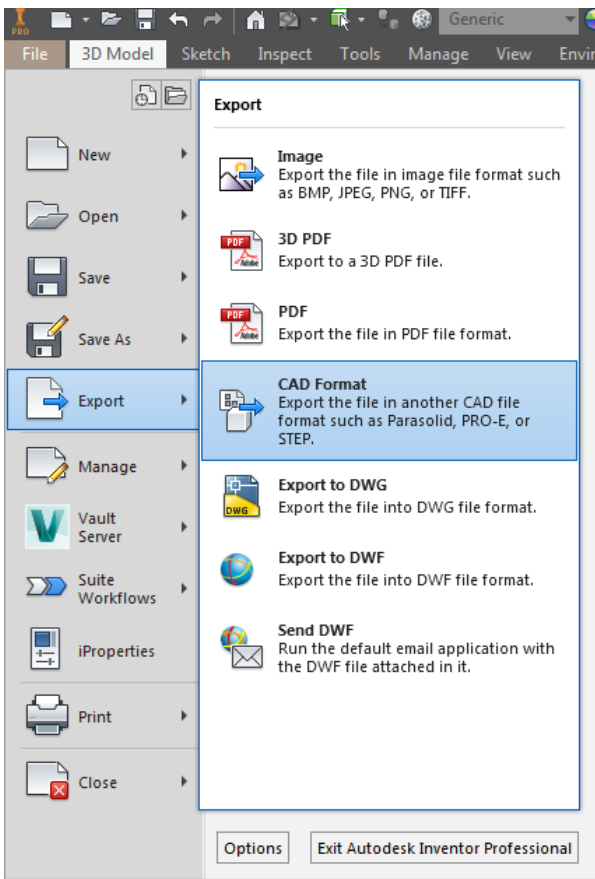
Save to my computer

## Autodesk Inventor:

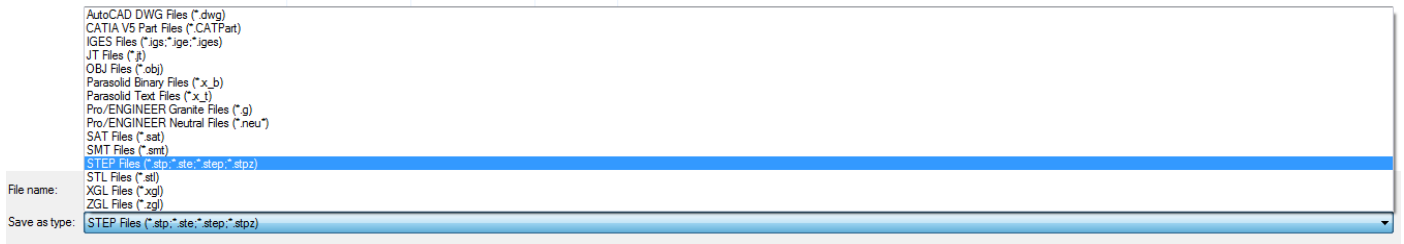
With Autodesk Inventor part needs to be assigned to home position on coordinates, this is start from 0 point of axis's. The Part still requires to be orientated in the YZ plane with X as Depth / Height. This can either be from beginning of modelling or on completion through the Move Function.



Once part is ready for export, select 'File'. Then select 'Export', 'CAD Format' using left key on mouse.



A new window will open, at bottom of page select 'Save as type', and then select 'STEP' using left key on mouse. Then select 'Save'.



## Solid Works:

TBA

## Clamping / Holding:

With each machine, there is varying methods in which work pieces are required to be held, for the Spinner U5-620 this predominately uses Machine Vices and Fixtures to hold work pieces. This is designed for holding Square / Rectangular shaped stock, however jiggling fixtures can be manufactured. Predominately an extra 15 – 20mm of material is required on each side of stock, for gripping and blocking / squaring of material for manufacturing:

