

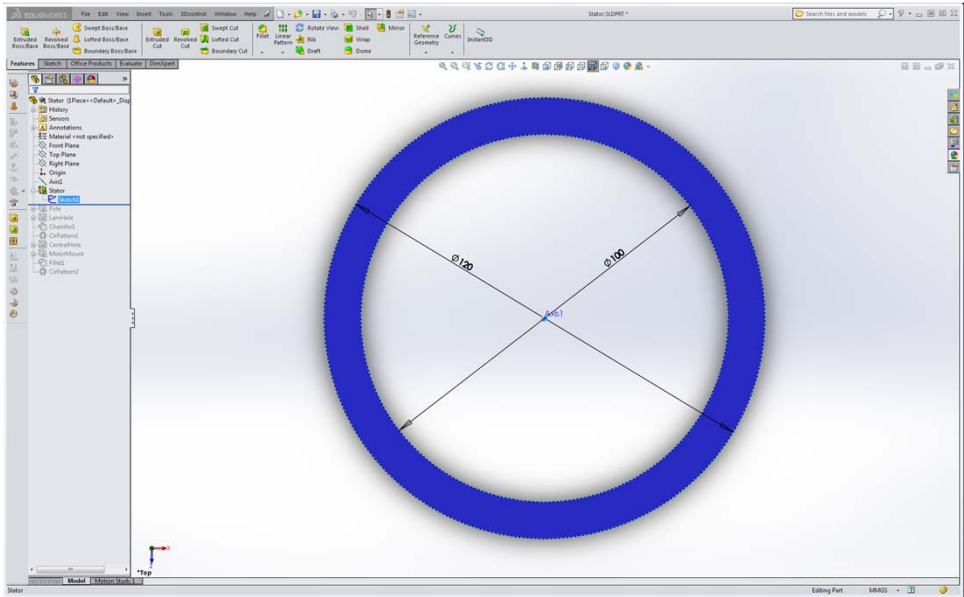


Solid Parts

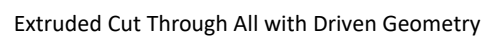
- Stator
 - Sketches
 - Black lines
 - Driven geometry
 - Design Tree
 - Rearrange order
 - Referenced features prevent time-travel
 - Reverse time
 - Reference geometry (axis)
 - Configurations
 - Suppressed Features
 - Dimensions
 - Colours
- Pinion
 - Tooth Geometry
 - Helical
 - Export
 - 3D Printer
 - STL
 - Waterjet
 - DXF

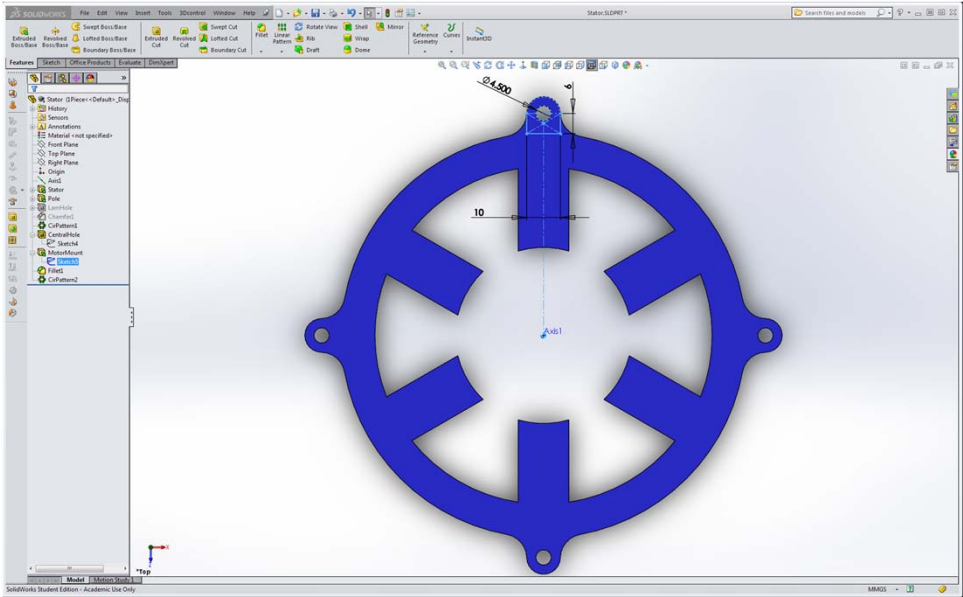
Stator.SLDPRT

Solid Parts

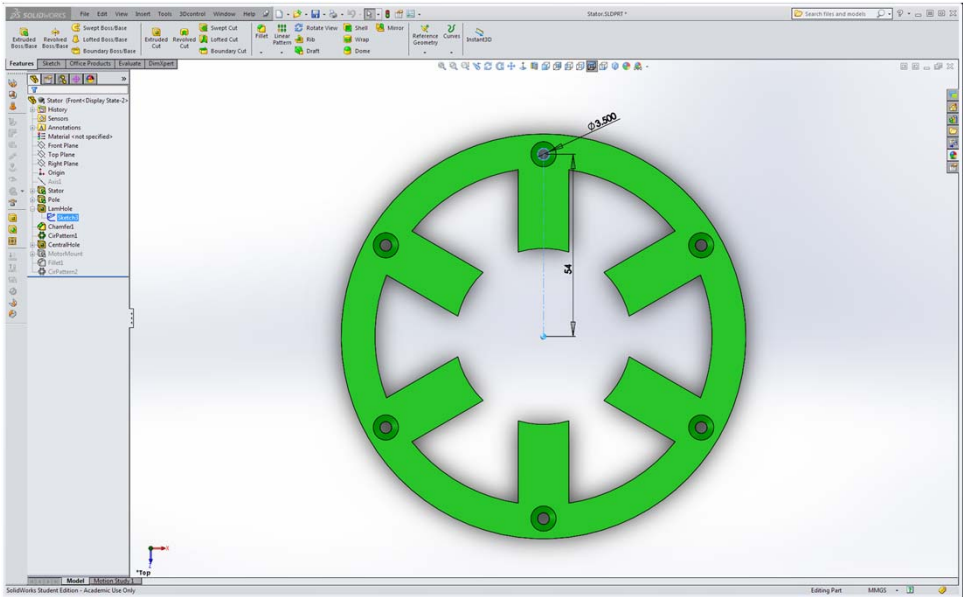


12.5mm Mid-Plane Extrusion

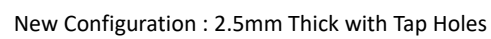




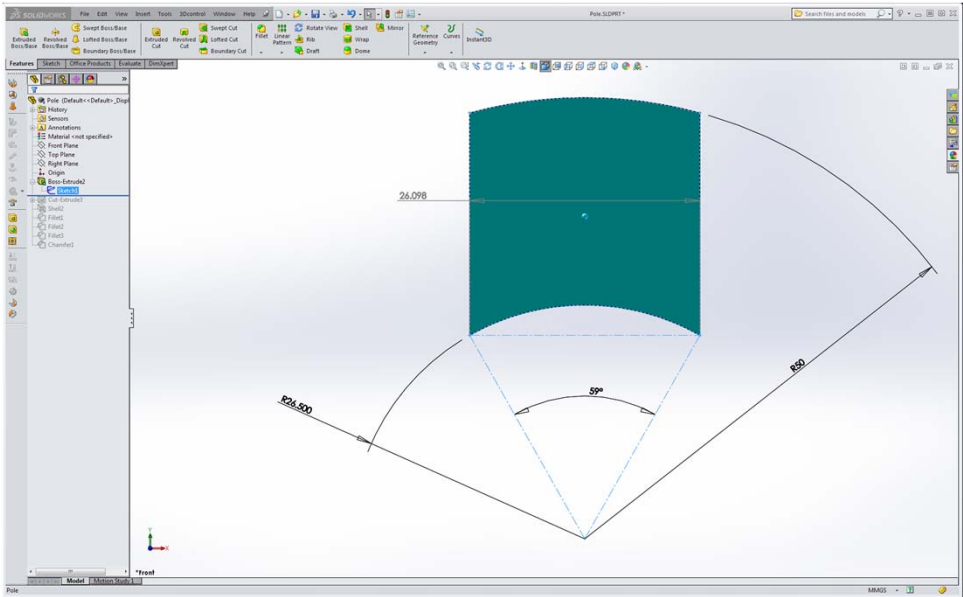
Extruded Tab with 7mm Fillet & New Circular Pattern



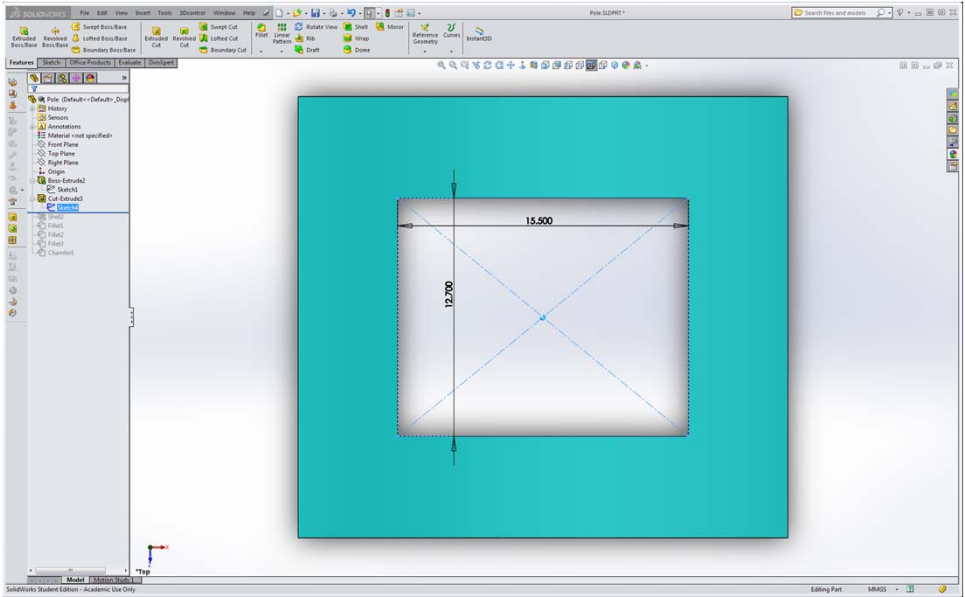
New Configuration : 25mm Thick with Countersunk Holes



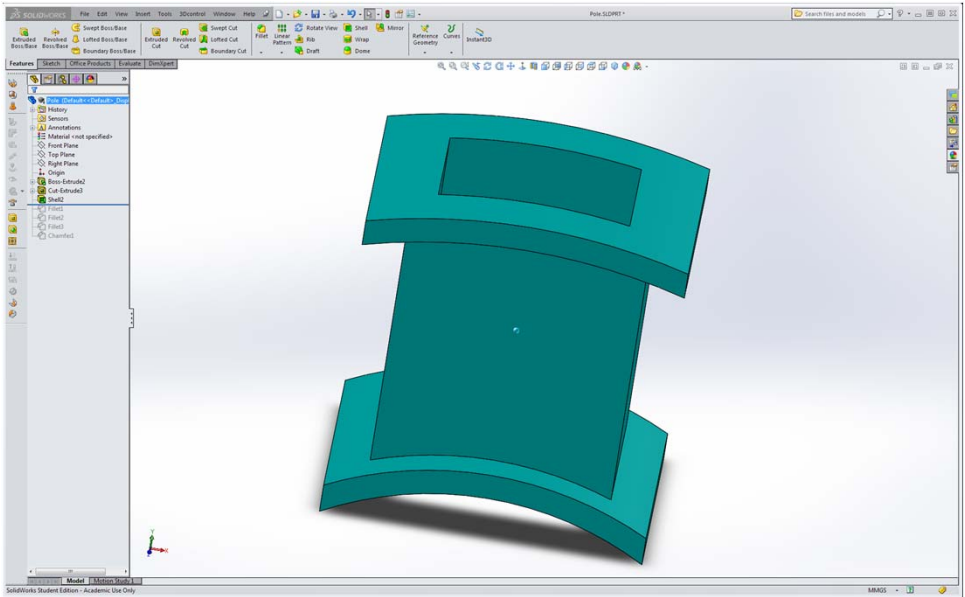
Pole.SLDPRT



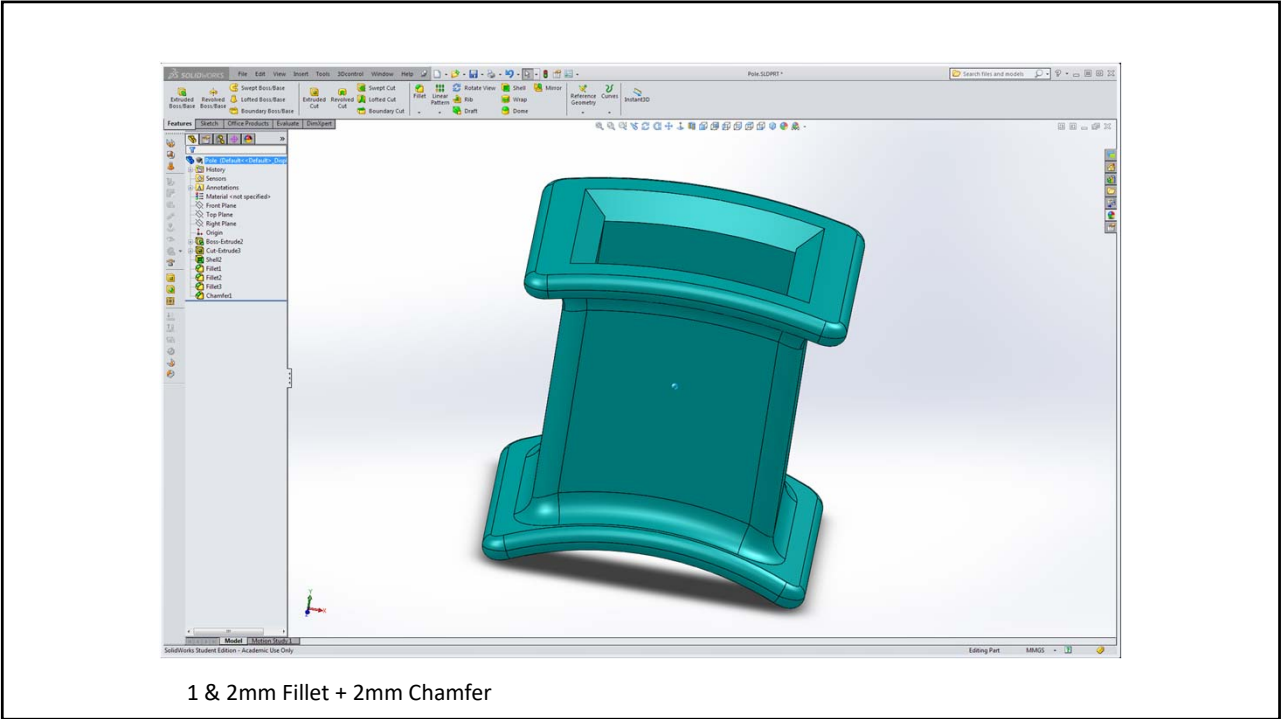
23.5mm Mid-Plane Extrusion



Extruded Cut : Measure actual part to account for manufacturing error + 0.2mm clearance



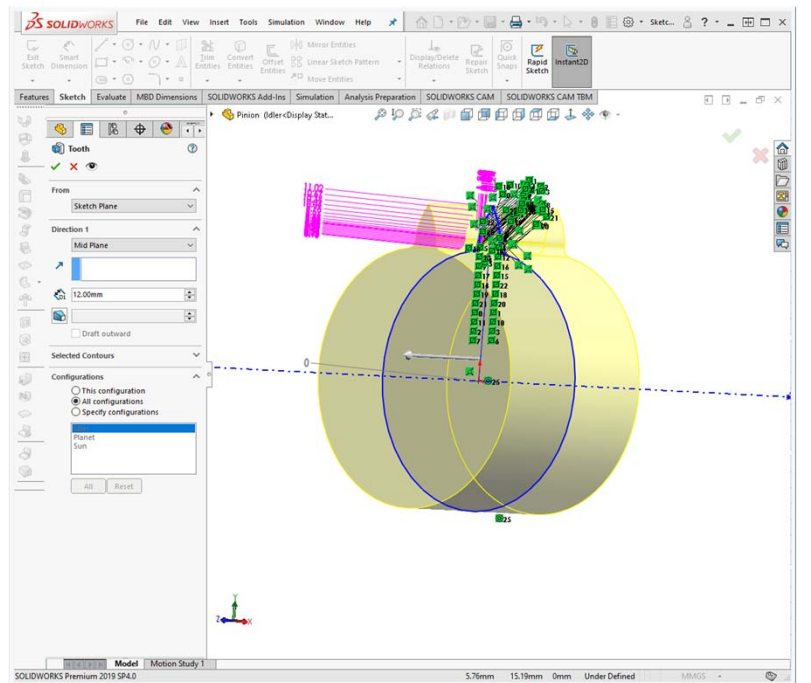
2mm Shell



Pinion.SLDPRT

- Available on SW page in Tools Tab

Extrusion named “Tooth”
determines face width.

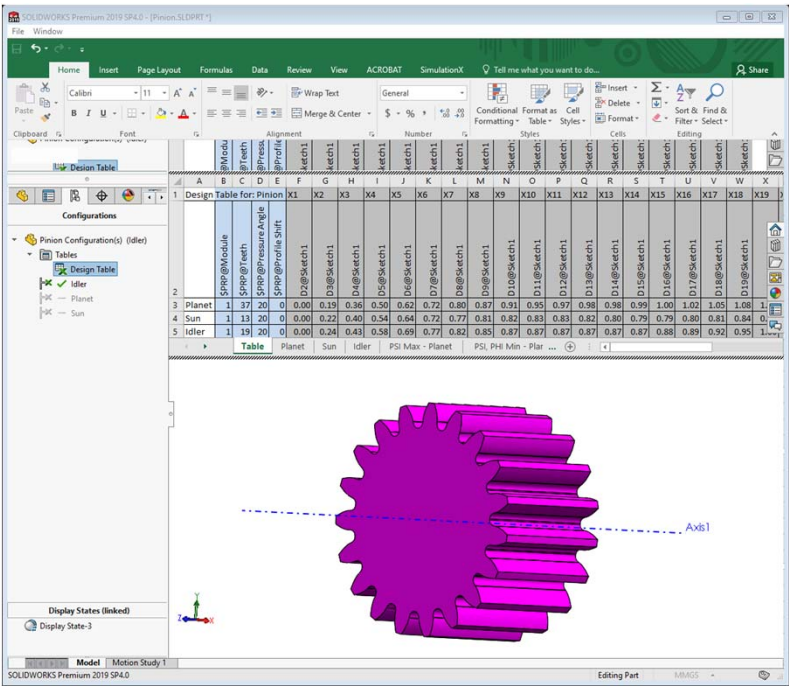


Edit Design Table in Configuration menu to set Module (M) and Number of Teeth (Z).

$M \approx \frac{1}{2}$ Tooth Height
 $\text{Gear OD} \approx M \times Z$

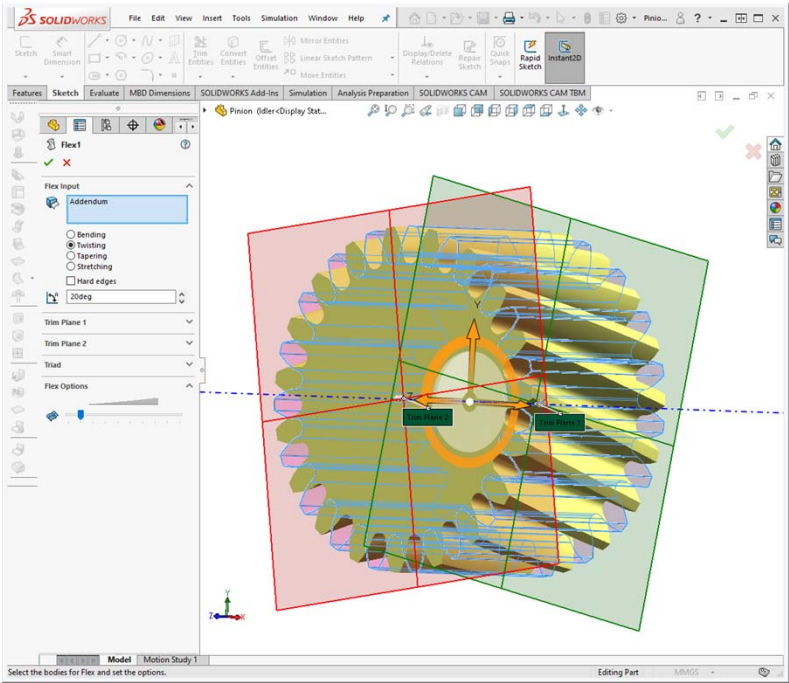
20° is a standard Pressure Angle.
Do not change unless you know what you are doing.

0 is a standard Profile Shift.
Do not change unless you know what you are doing.



Un-suppress “Helical Flex” feature for helical gear.

Helix angle must be proportional to Z for two engaged helical gears.



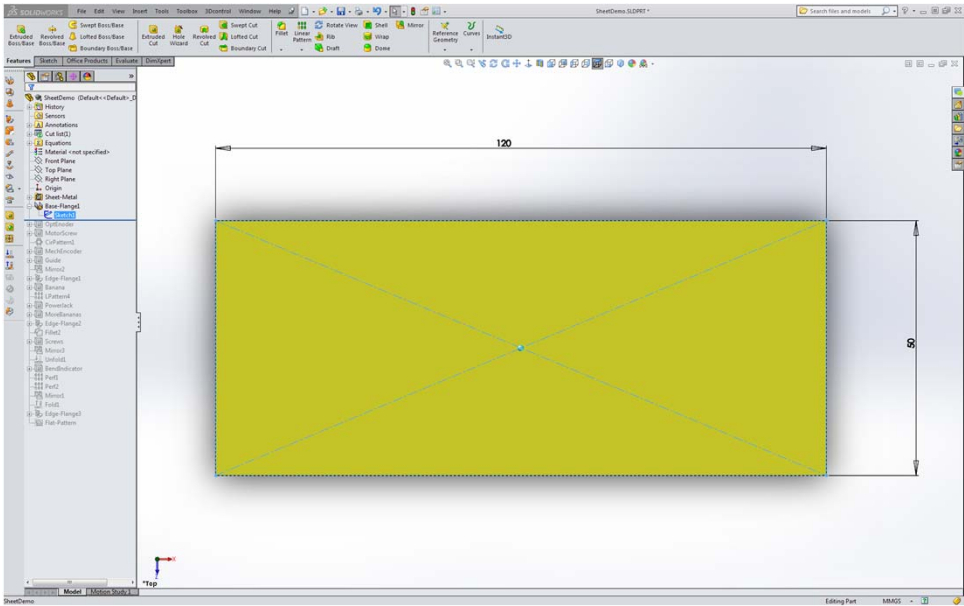


Sheet-Metal Parts

- New Part
 - Base Flange
 - Edge Flange
- Stand
 - Flatten
 - Unfold / Fold
 - Export DXF
 - Sheet metal option
- Sheet-Metal Design
 - Bend indicator
 - Bend perforation

Stand.SLDPRT

Sheet-Metal Parts



Sheet-Metal Base Flange – 20 Ga (1mm = 0.04”) AI

