



Advanced SolidWorks Glass Suction Tool



- Surfacing
- > Indent
- > Deform
- Master Modelling





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Glass Suction Tool



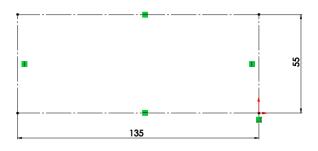


Glass Suction Tool

Creating the Multibody Master Model

Create a sketch using **Corner Rectangle** on the **Front Plane**.

Make for Construction & **Dimension** as shown.

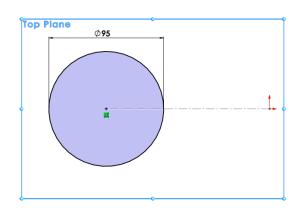


Rename as 'Construction Sketch'.

Create a sketch on the Top Plane

Sketch a **Circle** with the Centerpoint Coincident with outer edge of construction sketch.

Dimension circle 95mm diameter.



Rename as 'Base Profile'.

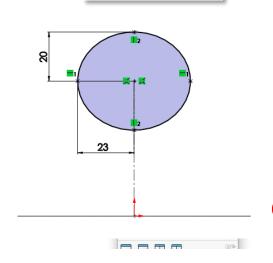
Create a sketch on the Right Plane. Sketch an Ellipse and add a

Coincident relation to the top of the Construction

Sketch.Add a **Horizontal relation** between the outer points of the ellipse.

Dimension the ellipse as shown.

Rename as 'Ellipse Profile'.

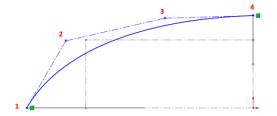






Create a sketch on the Front Plane.

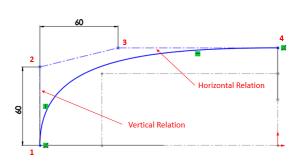
Select the **Style Spline** command and create a 4-point style spline as shown.



Add a Vertical Relation to segment 1-2.

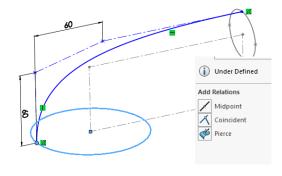
Add a Horizontal Relation to segment 3-4.

Add dimensions as shown.



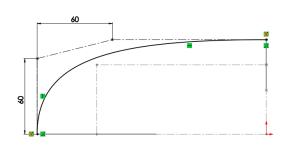
Add **Pierce Relation** between endpoint of Style Spline (Point 1) and Circle (Base Profile).

Add **Pierce Relation** between endpoint of Style Spline (Point 4) and Ellipse (Ellipse Profile).



Note: This relation ensures **tangency** when mirrored at a later stage.

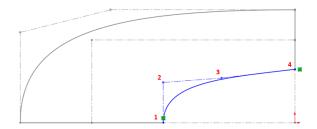
The Style Spline will now be fully defined.



Rename as 'Top Curve'.

Create a **New** sketch on the **Front Plane**.

Select the **Style Spline** command and create a 4-point style spline as shown.







Add a Vertical Relation to segment 1-2.

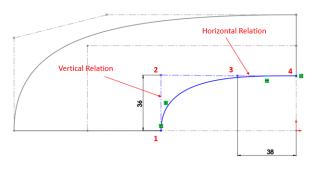
Add a Horizontal Relation to segment 3-4.

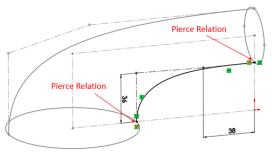
Add dimensions as shown.

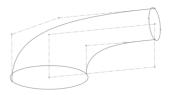
Add **Pierce Relation** between endpoint of Style Spline (Point 1) and Circle (Base Profile).

Add **Pierce Relation** between endpoint of Style Spline (Point 4) and Ellipse (Ellipse Profile). The Style Spline will now be fully defined.

Rename as 'Bottom curve'.











Creating the Lofted Surface

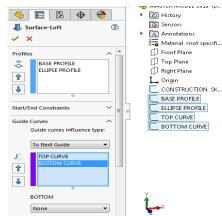
Select the **Lofted Surface** Command from the Surfaces toolbar.

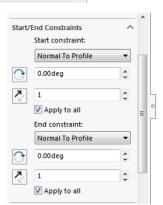
In the Profiles Tab select **Base Profile** & **Ellipse profile** from feature tree.

In the Guide Curves Tab select **Top Curve** & **Bottom Curve**.

Select the drop down arrow under **Start/End Constraints**.

Select Normal to Profile under both Start and End Constraints.









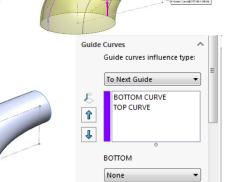
Note; Normal to profile will give a more accurate curve type.

In the Guide Curves Tab, Select **To Next Guide** under guide curves influence type.

Select None for Bottom Selection.

Select **OK** to accept the surface produced.

Rename Feature as 'Main Body Loft'.



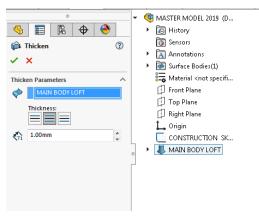
Adding a Thickness to the surface



Select Thicken from the Surface toobar.

Under the Thicken Parameters Tab, You are required to select a **Surface** to thicken, Select **Main Body Loft** from the feature tree.

Note; Under the Thickness Tab there are three options.



Select Thicken Both Sides.

Select 1mm Thickness.

Select **OK** to accept the feature.



Rename as 'Thicken Main Body'.

Creating a Split Line Feature

Create a Sketch on the **Top Plane**.

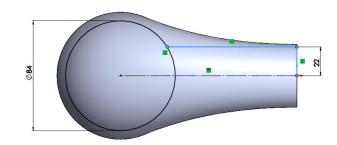




Select Convert Entities and select the construction sketch. (Centerline). Under options Tick

the for Construction check box, select ok.

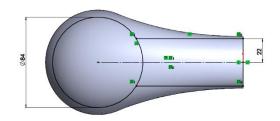
Select **Circle** command and draw circle, add a **Coincident Relation** between the centre of the circle and end centerline.



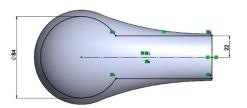
Select **Line** Command and Draw Horizontal And Vertical Line as shown opposite.

Dimension as shown opposite.

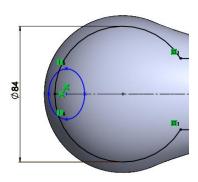
Select **Mirror entities**, Mirror the Horizontal and Vertical lines about the centerline.



Select **Trim Entities** and use Power trim to remove inner segments of circle.

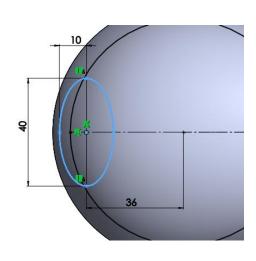


Select **Extend Entities** to extend centerline to Outer edge of Circle.



Select **Ellipse** and sketch an ellipse **Coincident** to the centerline as shown opposite.

Add a **Vertical Relation** between the outer points of the major axis.



Dimension as shown opposite.





Select **Trim Entities** and remove inner segments of circle and ellipse.

2 2 III

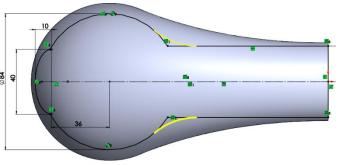
Select **Sketch Fillet** from the sketch tools, select the **intersection point** between the circle and the horizontal lines.

Set the Fillet Parameters to 40mm.

Select **OK** to accept the fillet.

The sketch is now **fully defined**.

Rename as **'Split Sketch'**.



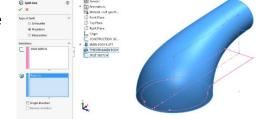


Creating a split on the Body

Select **Surfaces** toolbar and go to **Curves**, Under the Curves drop down select **Split Line**.

Under the **Split Line Tab**, select **Projection**.

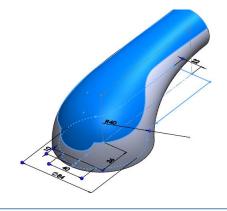
Under the **Sketch tab**, select **Split Sketch** from feature tree.



Under the **Faces tab**, select the **outer face** of the body.

Select **OK** to accept the Split line.

The Face selected has now been **Split** into seperate surfaces.





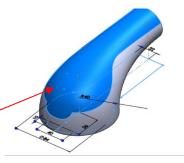


Click on the face to identify the Surfaces.

Rename Split Feature as 'Split Top Surface'.

Offsetting the New Surface

Note; Solidwork will not permit the user to work with the existing surface that has been created as this belongs to the existing body, the user must create a new surface. To do this the Offset Surface Feature is used. This feature acts like a copy button, The offset surface can be controlled by direction and distance.



Select the **Surface** that was Split.

From the surfaces toolbar select **Offset Surface Feature**. Under the Offset Surface, Set offset distance to **0.5mm**.



Select **OK** to Accept the Offset Surface.

Rename as 'Top Surface Offset'.



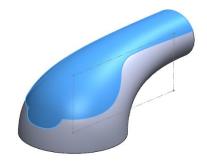
Note: The Flip Offset Direction is automatically set to offset to the outside of the Surface. Should the user need to change this to the inside, this button can be used to Flip Offset direction.

Note; If the user required the surface to remain flush with the existing surface you could set the offset distance to zero. This will copy the existing surface and allow the user to use the new surface for other features.

Adding a Thickness to the new offset surface.

Select the 'Top Surface Offset' from the feature tree.

From the Surfaces toolbar select **Thicken**.







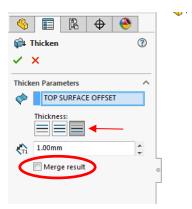
Set Thicken Parameters to;

Thicken Side 2

Thickness 1mm.

Untick the Merge result

Select OK & rename as 'Top Surface Thicken'.



Sensors
Annotations
Solid Bodies(2)

Top Plane

Right Plane

p SPLIT TOP SURFACE

TOP SURFACE THICKEN

Note; At this stage by deselecting the merge result, a new solid body will be formed containg the top surface. This style of modelling is known as Multbody Modelling.

All solid bodies created in this manner can be saved as individual parts at any stage. It is good practice to create the full multibody and save the bodies as new parts when all editing has been finalised.

Viewing the Solid Bodies

From the feature tree select Solid bodies folder.

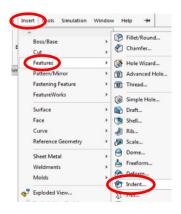
Two seperate bodies can now be seen in this folder. While these appear as two seperate bodies they can be saved as seperate parts at a later stage.

Note; The name of the solid body is derived from the name of the last feature created on this body. The names of the solid bodies can be changed at any stage.

Using the Indent Feature

The indent feature will now be used to take a cut in the shape of the Top Surface directly out of the Main Body resulting in two bodies that will fit perfectly into each other.

Note; The indent Feature can be found under the Insert Tab > Features > Indent.







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Under the Indent Parameter select;

Target Body as Select face of Main Body.

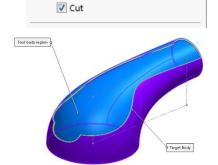
Tool Body Region as Select **face of Top Surface**.

Tick the Cut Checkbox.

Select **Ok** & rename feature as **'Indent top'**.

To view the resulting feature select
Top Surface Thicken from the **Solid Bodies** folder.





/- 0 - N - 1

Centerpoint Arc Slot

DDEL 2019 (Default<< Del

ch Straight Slot

Ch Com Centerpoint Straight Slot

Com Composition Straight Slot

□ · 6 · 0 · A Irim Entities

Target body:

SPLIT TOP SURFACE

Keep selections

Remove selections

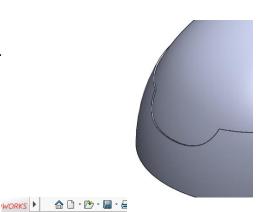
Tool body region:

Point@Face<1>

Select **Hide**.

The resulting effect of the indent feature can be seen.

Select **Show** Top Surface Thicken to resume editing.



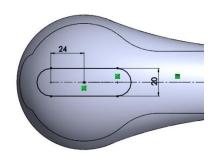
Creating the Button

Create a Sketch on the **Top Plane**.

Select Convert Entities and select the construction

sketch. (Centerline). Under options Tick the **for Construction** check box, select ok.

Sketch a **Centerpoint Straight Slot** with the centerpoint **Coincident** with the Outer edge of the Construction sketch.



Dimension as shown opposite.





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Exit Sketch & Rename as 'Button Sketch'.

Select **Split line** from the Curves toolbar.

Type **Projection**

Under Sketch select Button Sketch sketch.

Spirit line

Selections

Fine the graph direction

Frace the graph direction

Reverse direction

Under face Select the **Top Face** of Top Surface thicken.

Select OK.

Rename feature as 'Split Button'.



From the surfaces toolbar select **Offset Surface Feature**. Under the Offset Surface, Set offset distance to **0.2mm**. Select **OK** to Accept the Offset Surface.

Rename as 'Offset Button'.







Adding a Thickness to the Button offset.

From the Surfaces toolbar select **Thicken**.

Select the **'Offset Button'** from the feature tree.

Set Thicken Parameters to;

Thicken Side 2 - 0.5mm

Untick the Merge result.

Accept and rename as 'Thicken Button'.

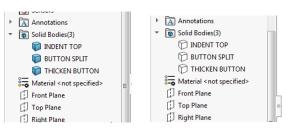






In the feature tree under **Solid Bodies folder**, three Solid Bodies can now be seen.

Hide the three Solid Bodies in the Solid Bodies folder.



Adding the Arrors to the Button





Select **Convert Entities** and select the Button sketch from the feature tree. Under options Tick the **for Construction** check box, select ok. (To be used as a guide)

Select **Centerline** and sketch from center to center of slot curves.

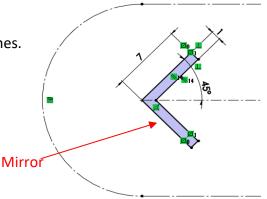


Select **Line** and create sketch starting on the end of the centerline as shown opposite.

Add Parallel & Perpindicular Relations between the lines.

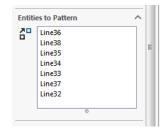
Dimension as shown.

Mirror the Entities using the centerline.



Select Linear Sketch Pattern from sketch tools.

Set Entities to pattern – **Select arrow** (Tip – Select a point inside arrow to automatically select all lines)

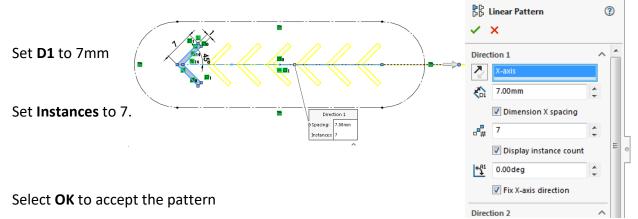






Annotations

Set Direction 1 to the centerline



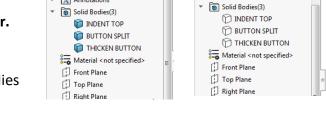
Rename as 'Arrows'.

In the feature tree under Solid Bodies Folder.

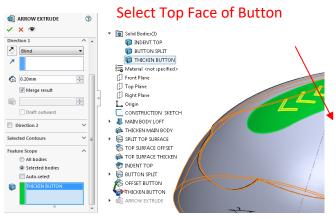
Show the three Solid Bodies in the Solid Bodies folder.

Select the **Arrows sketch** from the feature tree.

Select Extruded Boss/Base
Set The following parameters;
From – Surface/Face/Plane
Surface – Select top face of button
Select – Blind & Distance 1 – 0.2mm



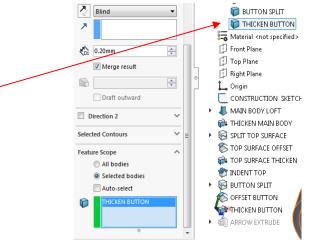
Annotations



Under Feature Scope - Tick selected Bodies

Untick Auto-select

Select the body to merge with from the feature tree – **Thicken Button**







Target Body 9

Note; This is an important feature of the extrude boss/base, it allows the user to select which of the bodies to merge with. If all bodies was selected it would merge all bodies in the entire model resulting in a single solid body.

Select **Ok** to accept the feature & rename as **'Arrow Extrude'**.

Indent Feature for Button

Select **Indent Feature** – Insert>Features>Indent Under the Indent Parameter select;

Target Body as Top Surface/Split Button.

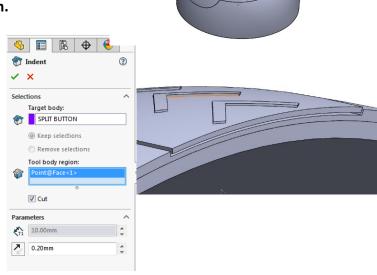
Tool Body Region as Button.

Tick the Cut Checkbox.

Under Parameters;

Set the thickness to 0.2mm

Select Ok & rename as 'Indent Button'.



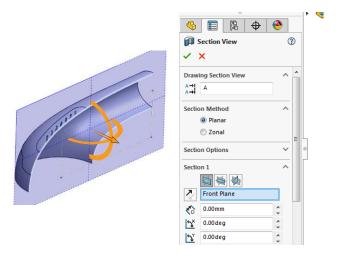
Tool body region 9.

Note; The thickness parameter can be used to create a gap between the two bodies in the indent. The gap is created around the outside of the bodies and between the bodies.

Revolving the Bottom of the Suction Cup

Create a Section View using the **Front Plane**.

Select **OK**.







Create a sketch on the Front Plane and Convert Entities for base line.

Select **Line** and complete sketch as shown opposite.

Select **Circle** and sketch a circle with its centerpoint **Coincident** to the outer corner of the model.

Use Convert Entities for this

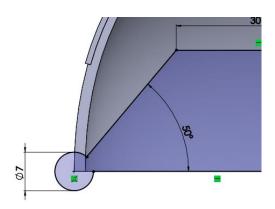
Dimension as shown.

Select **Trim Entities** and remove as Shown opposite.

Trim right side of converted entity line.

Dimension Angle as shown to fully define sketch.

Rename as 'Inner Section'.



Select Revolved Boss/Base

Select the 22mm line as axis of reveloution

Select Parameters as shown below;

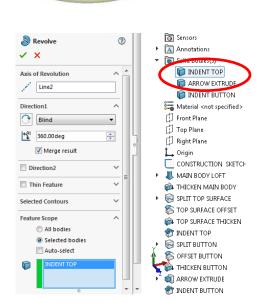


Set to Selected Bodies

Untick Auto-select

Select **Indent Top** from feature tree as the Selected Body.

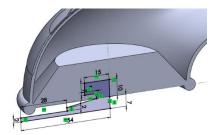
Select OK & rename as 'Revolve Base'.











Create a sketch on the **Front Plane** using the **line command**. Make first point of line **Coincicent** with midpoint of previous revolve.

Dimension as Shown.

Select Revolve Boss/Base

Set the **10mm line** as the axis of revolution.

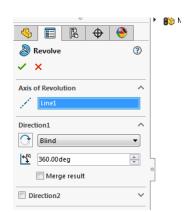
Start 7 9 Start 54

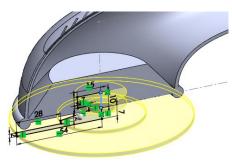
Untick the Merge result tickbox.

This will form a new Solid Body.

Select **OK** to accept.

Rename as 'Base Suction Cup'.

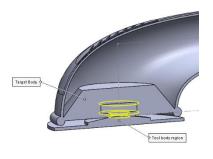




Select Indent Feature

Select the **Revolve Base** as the **Target Body.**

Select the **Base Suction Cup** as the **Tool** body region.



Tick the Cut checkbox.





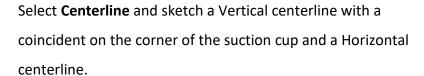
Note; In this instance space is not required between the two bodies so the gap setting will be set to zero.

Rename as 'Indent Main Body'.

Turn Off Section View.

Adding a Grip Tab to the Suction Cup

Create a sketch on the **Front Plane** as shown opposite.



Dimension as shown.

Select **Centerpoint arc** to complete the arc.

Select Revolved Surface.

Use Centerline from **Construction sketch** as axis of revolution.

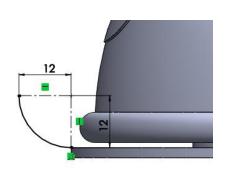
Set Revole **Parameters** as shown opposite.

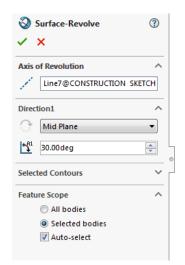
Select OK & rename as 'Revolve Tab'.

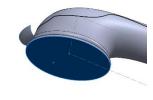
Create a sketch on the **Bottom Surface** of the Suction Cup.

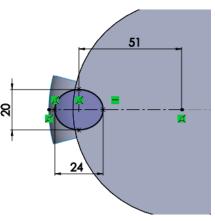
Select **Centerline** and sketch from Construction sketch to edge of surface.

Select **Ellipse** and sketch Ellipse with Major axis **Coincident** with Centerline.











Dimension as shown.

Rename sketch as 'Tab Sketch'.

Select **Split line** command from **Curves toolbar**.

Select Tab sketch

Select Face of surface

Select **Ok** to accept.

Rename as 'Tab Surface'.

Select the Tab portion of the Surface.

Select Offset Surface.

Create a 2mm offset to the underside of the surface.

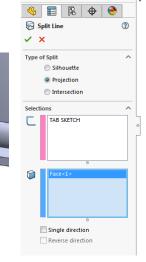
Select Ok.

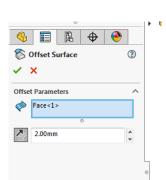
Rename as 'Tab Offset'.

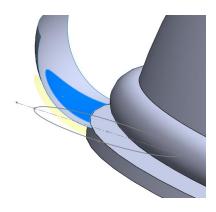
Select **Tab Surface** from Feature tree & **Hide** surface.

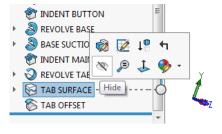










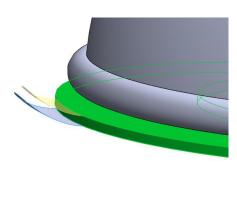




Set **Parameters** as shown opposite.

Rename as 'Thicken Tab'.











Select the **underside face** of the suction cup.

Select the **Dome** feature.

Reverse Direction.

Select **OK** to accept &rename as 'Dome Underside'.

Select Fillet.

Add a 5mm Fillet each side of the Tab.

Rename as Fillet Tab Edge.

Select Fillet

Add a 0.5mm fillet to the top edge of the suction cup.

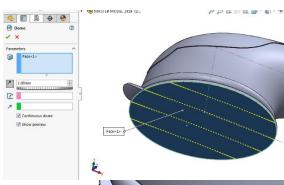
Rename as Fillet Suction Top.

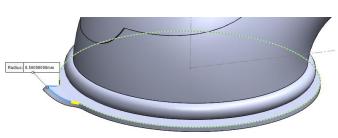
Select **Top Edge** of Button.

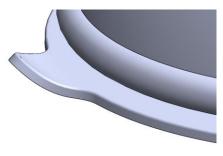
Select Fillet.

Add a 0.5 mm Fillet.

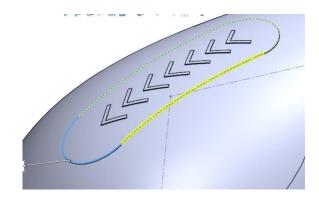
Rename as 'Button Fillet'.







♦ Radius: 5.00000000mm







Mirror Solid Bodies

Select Mirror from the features toolbar.

Set Mirror parameters as shown opposite.

Select **OK**.

Rename as 'Mirror Bodies'.

Select **Combine** Feature

Select Add

Select the **Top Surfaces**

Select **OK** & rename as **'Top Casing'**.

Select Combine Feature

Select Add

Select the Main Body and Mirror

Select **OK** & rename as 'Main Body'.



Combine1 × Operation Type

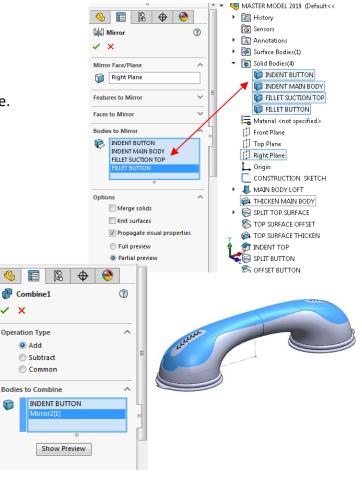
> Add Subtract Common (



Creating a Grip

Create a Sketch on the **Top Plane**.

Select Convert Entities and select the Construction sketch from the feature tree. Under options Tick the for Construction check box, select ok.



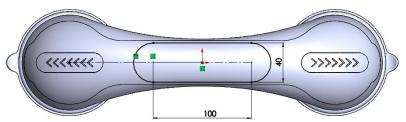




Select Centerpoint slot **Coincident** with Origin and side point **Coincident** with the centerline converted.

Dimension as shown.

Rename as 'Grip Split Line'.

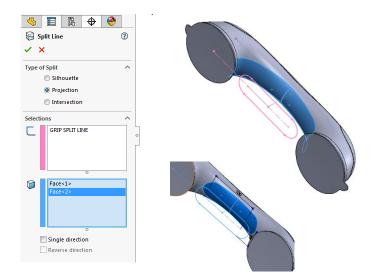


Select **Split Line** from Curves toolbar.

Set Parameters as shown.

Ensure **both faces** are selected.

Select **OK** & rename as **'Grip Split'**.

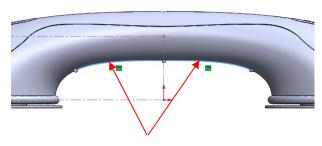


Using the Deform Tool To Create Grips

Create a sketch on the Front Plane.

Select Convert Entities and select both edge curves.

Rename as 'Initial Curve'.



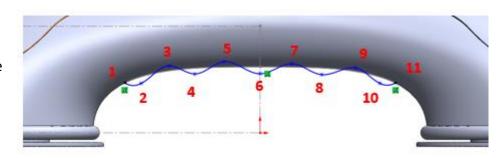
Select these two edges

Create a sketch on the Front Plane.

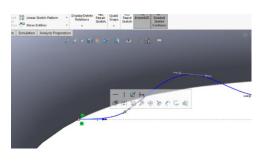


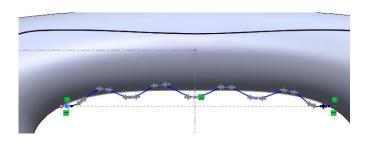


Create a **Spline** as shown in the sketch opposite. Ensure **start and end point** of spline are **Coincident** with Initial Sketch.



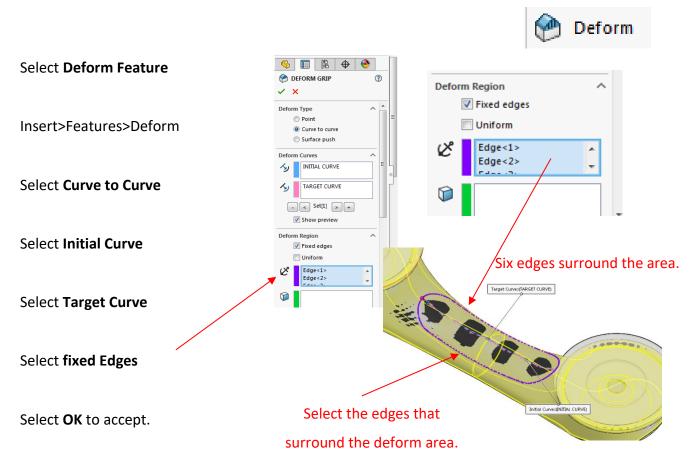
Add a Horizontal Relation to both ends of the spline handles.





Rename as 'Target Curve'.

Note; Try to keep the spline just outside and inside the body for this feature.



Rename as 'Deform Grip'.





Hide Initial Sketch **and** Target Sketch in feature tree.

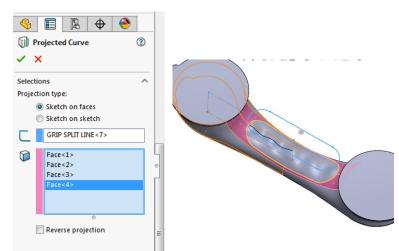
Note; Use **Section View** – Front Plane to best view Grip.

Creating a Design around the grip.

Select Grip Split Line sketch.

Select **Projected Curve** from Curves toolbar.

Select **faces** to project onto as shown.



Select OK and Rename as 'Projected Curve'.

Select Feature Swept Boss/Base
Select Projected curve

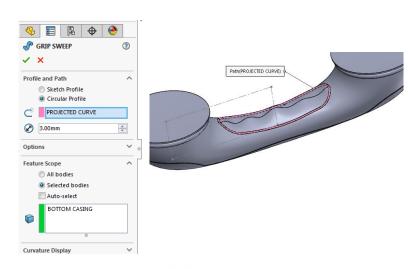
Select Circular Profile

Set Diameter - 3mm

Select **OK** and Rename as 'Grip Sweep'.

Hide the Projected Curve.

Hide the Construction Sketch.

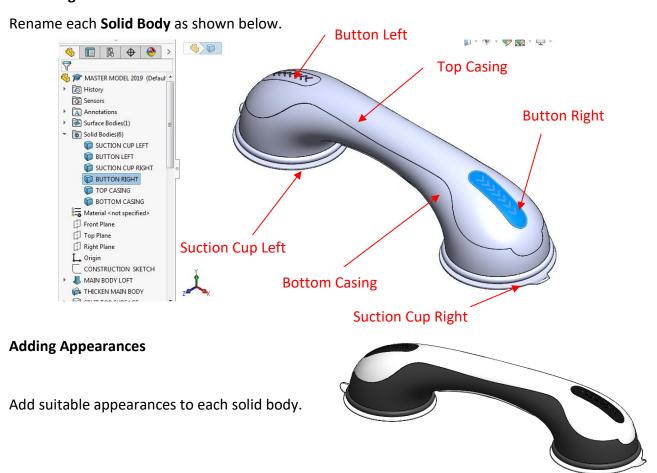








Renaming The Solid Bodies



Saving the Bodies

There are **two methods** of saving the bodies.

Method 1

Right Click on the Solid Body in the Solid Bodies Folder.

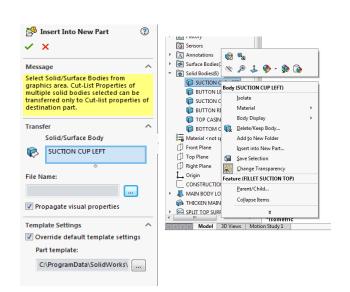
Select Insert into New Part.

Tick Propagate visual properties.

Tick Override default template settings.

File Name - Leave blank.

Select OK.







The Solid body will now appear as a new part file.

The Save as dialog box will appear – It will **automatically** create a name for the part linked to the name of the Solid Body.

Select Save.

Note; The new part will automatically be saved into the same folder/location as the master model. Only tick propagate visual properties if you want to carry appearances/decals into the new part.

Repeat this Process for all solid bodies.

Create an Assembly & Insert Parts into the Assembly.

Parts can be mated using planes. (front to front)

This will create an **identical** setup to the Master Model.

Note; All mating can be achieved as if mating any set of parts.

Note; When Solid Bodies are inserted into a new part, they retain the parametric link to the Master. This is important to note as any changes carried out in the Master Model will automatically update in the new part or assembly.

Any changes made in the part files will not be linked to the master model, these changes will be seen in the assembly. This can be used to an advantage for making different versions of a part.





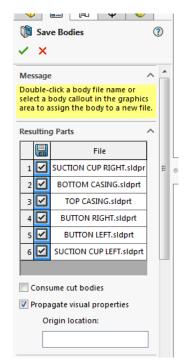
Save Bodies Feature

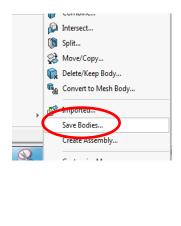
In the Master Model

Select Insert> Features > Save Bodies.

Tick the Bodies to Save.

In this case all 6 bodies should be ticked.





Untick Consume Cut Bodies.

Tick propagate Visual Properties.

Under Create Assembly

Select Browse

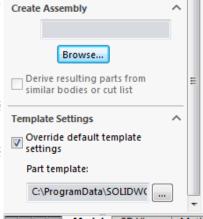
See As

Or Organize W ADVANCED SW SUCTION CUP... > SOLDWORKS V 49 Search SOLDWORKS D

Organize W New folder

Recorder... Name
Determodified Type
Determodified Type
Determodified Type
17/09/2019 22:18 SOLDWORKS Ads...
W ASSEMBLY USING MATES 17/09/2019 22:18 SOLDWORKS Ads...
W Google Diver - SV
Orchiver - MALE
Recent Places
U Obraries
Documents
File name:
Save as type: [SpiRAseembly Ciddsom)
Description: Add a description

High



Specify the **file name** and **location** for the assembly.

Select **Save**.

Select OK on the save bodies feature.

Solidworks will **automatically** save each solid body as a new part file, it will also create an assembly of all the part files.

Notes;

All parts are fixed in the exact position from the master model.

Assembly Environment



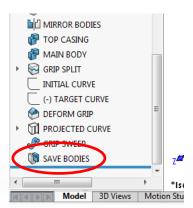




If changes are required in the **Master Model** it is important to look at the feature tree.

A new feature was created when **Save Bodies** was used.

In order to retain a **parametric link** to the assembly, any further changes must be created before the Save Bodies Feature.





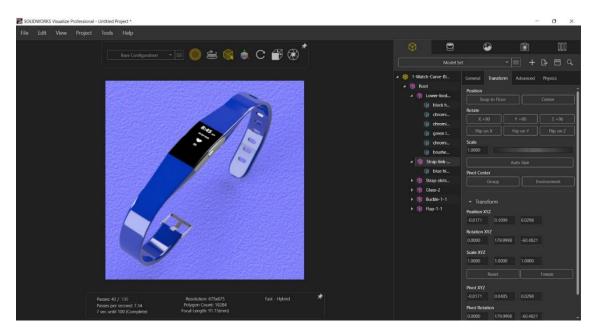




S SOLIDWORKS | Visualize Professional

SolidWorks Visualize

Professional



It is essential to understand the importing process in SolidWorks Visualize to control the import settings and the organisation of the original CAD files

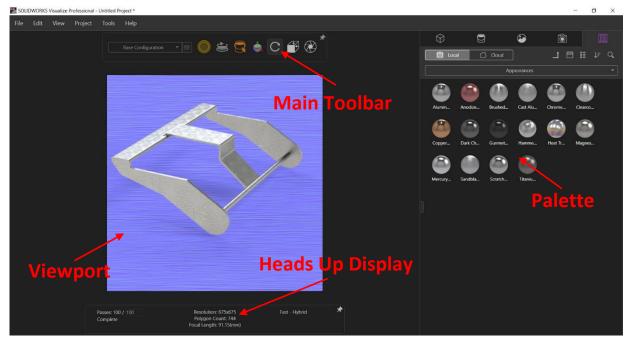
There are two common import settings to setup a Visualize project for different workflows one to make a model quick and easy to work the other to allow live updates and more flexibility.

This presentation will focus in on the workflow that allows the appearances applied to Parts/Assemblies in SolidWorks to Live Update in Visualize. Note reference will be made to the quick and easy workflow (www.mysolidworks.com) at a later stage





General User Interface Of Visualize



Importing CAD files into Visualize

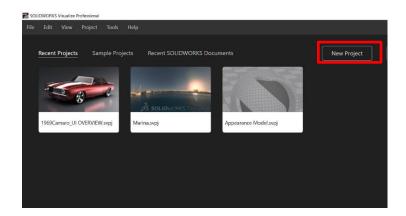
Open the CAD files Watch-curveblue and apply appearances save the file as normal.

Select the **Visualize Icon** (Desktop)





Select the icon create **New Project** and save.

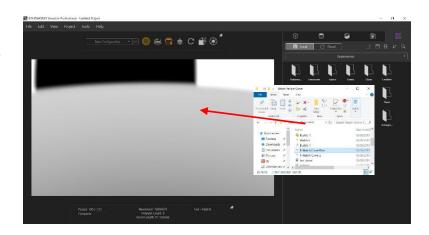






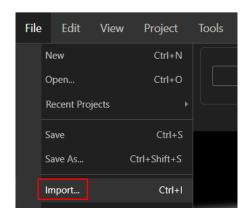
Importing CAD File Option 1

In the **New Project** window open the folder with the contains the file Watch-curve-blue drag the file into the new project window.

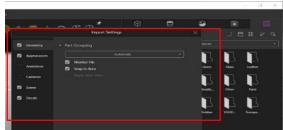


Importing CAD File Option 2

Select File top left and scroll down to import.

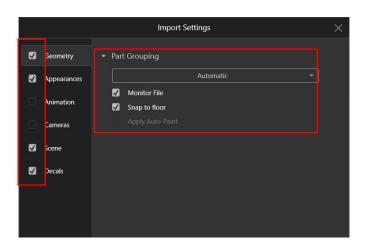


Import window



Import Settings Checked

- ✓ Geometry
- ✓ Appearances
- ✓ Scene
- ✓ Decals
- Animations
- o Camera
- ✓ Automatic
- ✓ Monitor File
- ✓ Snap to Floor



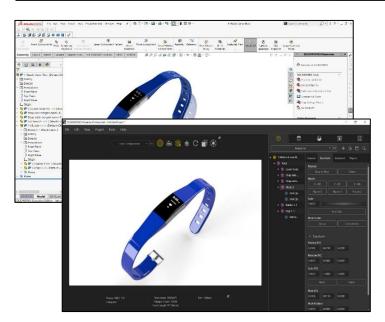






Toggle between

SolidWorks & Visualize (Alt Tab)



Edit a part in SolidWorks, Visualize will prompt to **Update Live**





SolidWorks Edit Visualize Live Update

Advanced SolidWorks 2019-2020





Saving an Image from Visualize

Select the **Output Icon** from the Main Toolbar this will bring up the **Output Tools**



Output Tools

File Name: Appropriate Name for Image

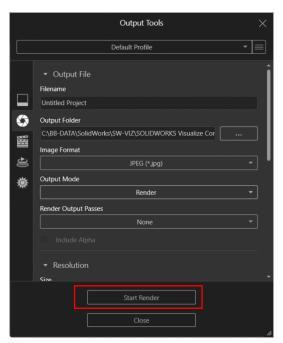
Output Folder: Location to save file

o Image Format: JPEG

Output Mode: Render

Render Output Passes: None

Start Render



Render Completed

On completion of the **render** you can select a link to find the location of the file with you have pointed to in the **Output Tools Settings**



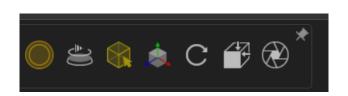




Editing the SolidWorks Model

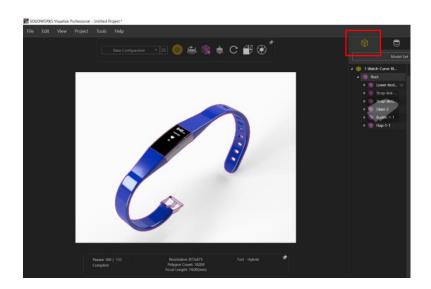
Main Toolbar

- Renderer Selection
- Turntable
- Selection Tool
- Object Manipulation Tool
- Camera Tool
- View Presets
- Output Tool



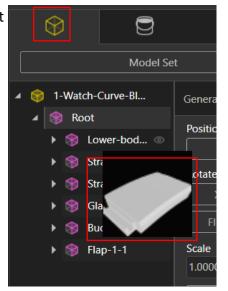
Showing and **Hide Parts**

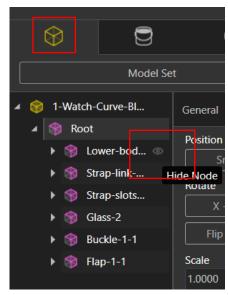
Select the Models Icon



Select a Part and on the right select the **Show/Hide**

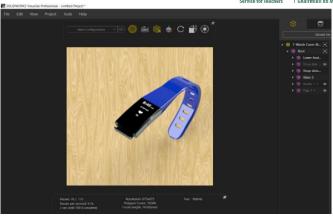


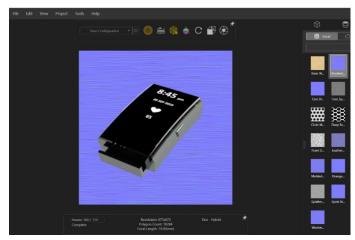






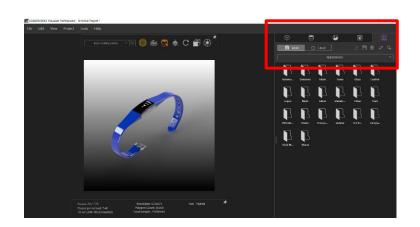


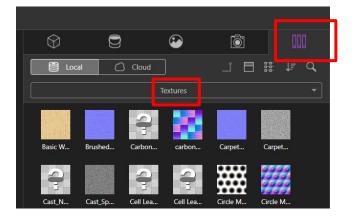




Inserting Textures

Select File Library and Textures

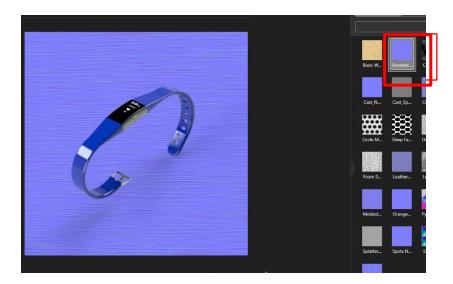


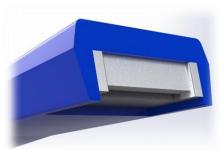






Drag **Brushed Normal** into the Project Window













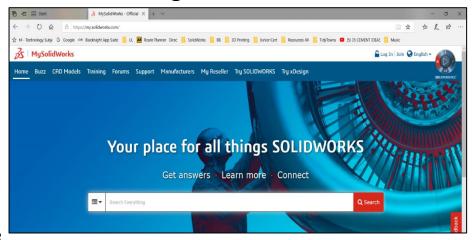




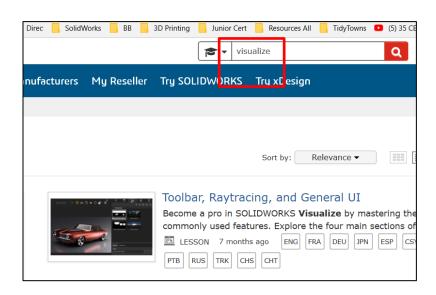
www.mysolidworks.com

Login using Existing SolidWorks Account

Create a New Account using SolidWorks Serial Number



Search for Visualize







Training Materials

https://my.solidworks.com/training/path/61

SOLIDWORKS Visualize

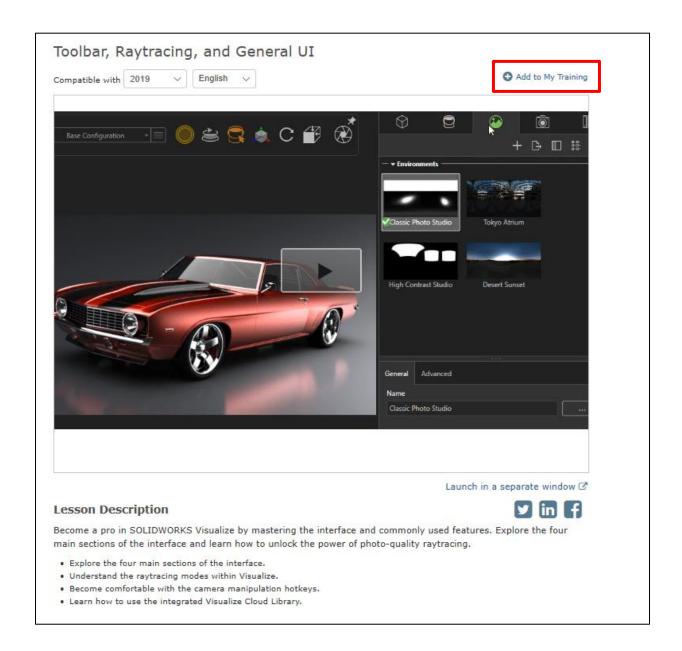
• Add to My Training

Learn about SOLIDWORKS Visualize, which enables anyone to create professional, photo-quality im textures, and decals to your model, animate your assemblies, and much more.

Lessons	Status	Langua
Import & CAD Live-Update	Completed	ENG
Toolbar, Raytracing, and General UI	C In Progress	ENG
Easy Mode Overview	C In Progress	ENG
Working With Your Scene Tree	C In Progress	ENG
Using Appearances in SOLIDWORKS Visualize	C In Progress	ENG
Texture Mapping	C In Progress	ENG
Decals	C In Progress	ENG
Setting Up Your Scene	(Not Started	ENG
Adjust Camera Settings	(Not Started	ENG
Image and Video Output Options	C In Progress	ENG
Configurations	(Not Started	ENG







https://my.solidworks.com/training/lessonviewer/19-ENG-VIS-0001/ https://my.solidworks.com/training/master/333/1/0/toolbar%2C+raytracing%2C+and+general+ui





Create Text & Image Decals using

PowerPoint

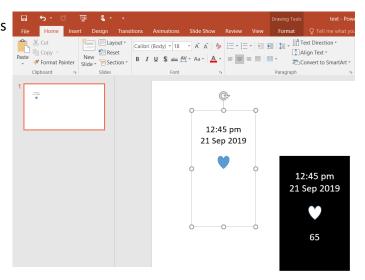
Create a text box insert Text and Images

Format the text box.

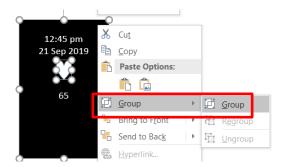
Background Black

Text White

Image White



Group Text and Image



Right click Save as Picture

