

```
Dim swApp As Object
Dim Part As Object
Dim SelMgr As Object
Dim boolstatus As Boolean
Dim longstatus As Long, longwarnings As Long
Dim Feature As Object
Dim DrawView As Object
```

```
Public Sub PRINCIPAL_1()
'Crea el objeto de solid works
Set swApp = CreateObject("sldworks.Application")
swApp.Visible = True
Set Part = swApp.ActiveDoc
```

```
Set Part = swApp.NewDocument("C:\Archivos de
programa\SolidWorks\lang\spanish\Tutorial\part.prtdot", 0, 0#, 0#)
Set Part = swApp.ActivateDoc2("Part21", False, longstatus)
```

```
'Llama cada uno de los modulos
If FORM_OPCIONES.OPCION_BLISTER_RING = True Then
BLISTER_RING
End If
If FORM_OPCIONES.OPCION_AXON = True Then
AXON
End If
If FORM_OPCIONES.OPCION_PINES = True Then
PINES
End If
If FORM_OPCIONES.OPCION_PINEAPPLE = True Then
PINEAPPLE
End If
If FORM_OPCIONES.OPCION_LEROY = True Then
LEROY
End If
If FORM_OPCIONES.OPCION_SAXTON = True Then
SAXTON
End If
If FORM_OPCIONES.OPCION_DULMAGE = True Then
DULMAGE
End If
If FORM_OPCIONES.OPCION_DOUBLEWAVE = True Then
DOUBLEWAVE
End If
If FORM_OPCIONES.OPCION_EGAN = True Then
EGAN
End If
```

End
End Sub

Public Sub BLISTER_RING()

'Definición de parametros

Diametro = FORM_BLISTER_RING.Diametro.Value / 1000

Paso = Diametro

RADIO_CIRCULO = Diametro / 2

Longitud = (FORM_BLISTER_RING.Longitud.Value / 1000)

Angulo = Atn(Paso / 3.1416 / Diametro)

Base = 0.1 * Diametro

Profundidad = (FORM_BLISTER_RING.Profundidad.Value / 1000)

Espesor = (FORM_BLISTER_RING.Espesor.Value / 1000)

ANILLO_CEN = Longitud / 2 - Espesor / 2

swApp.CloseDoc "BLISTER"

swApp.CloseDoc "BLISTER - Hoja1"

'Extrusión cilindro

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False, False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False

Part.SelectionManager.EnableContourSelection = 0

'Perfil helice

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.CreateLine2 RADIO_CIRCULO - Profundidad, 0, 0, RADIO_CIRCULO - Profundidad, Base, 0

```
Part.CreateLine2 RADIO_CIRCULO - Profundidad, Base, 0, RADIO_CIRCULO,
Base, 0
Part.CreateLine2 RADIO_CIRCULO, Base, 0, RADIO_CIRCULO, 0, 0
Part.CreateLine2 RADIO_CIRCULO, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Helice

```
Set Part = swApp.ActiveDoc
Set SelMgr = Part.SelectionManager
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis3",
"EXTSKETCHSEGMENT", 0.00510479163502, 0.02651303646064, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, True, False, True, 2, Longitud - Base, Paso, 0, 0, 0

boolstatus = Part.Extension.SelectByID2("Croquis2", "SKETCH", 0.0095,
0.001637703732882, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
-0.002968244031081, -0.008755456080792, -0.006826547337653, True, 0, Nothing, 0)
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Croquis2", "SKETCH", 0.0095,
0.001637703732882, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
-0.002968244031081, -0.008755456080792, -0.006826547337653, True, 4, Nothing, 0)
Dim SweepFeature As Object
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)
```

'Linea construcción

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
Part.InsertAxis2 True
```

'Perfil corte

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.SketchRectangle RADIO_CIRCULO, ANILLO_CEN - Profundidad, 0,
RADIO_CIRCULO - Profundidad, ANILLO_CEN + Espesor + Profundidad, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Corte

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

'Perfil y revolución anillo

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 RADIO_CIRCULO - Profundidad, ANILLO_CEN, 0,
RADIO_CIRCULO - Profundidad, ANILLO_CEN + Espesor, 0
Part.CreateLine2 RADIO_CIRCULO - Profundidad, ANILLO_CEN, 0,
RADIO_CIRCULO, ANILLO_CEN + Profundidad, 0
Part.CreateLine2 RADIO_CIRCULO, ANILLO_CEN + Profundidad, 0,
RADIO_CIRCULO, ANILLO_CEN + Espesor - Profundidad, 0
Part.CreateLine2 RADIO_CIRCULO, ANILLO_CEN + Espesor - Profundidad, 0,
RADIO_CIRCULO - Profundidad, ANILLO_CEN + Espesor, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

```

boolstatus = Part.Extension.SelectByID2("Croquis1", "SKETCH", 0, 0, 0, False, 0,
Nothing, 0)
Part.BlankSketch

```

'PUNTAS

```

If FORM_PUNTAS.OPCION_PUNTA1 = True Then
medida = (Diametro - 3 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2
Y = Sqr(medida)

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)

```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA2 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
```

```

Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud
+ RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10,
(RADIO_CIRCULO - Profundidad) / 5, 0, 2
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO -
Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

'Acople croquis

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, -
(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0,
(Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro /
1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5),
0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
```

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro / 1.451612903), False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Rectangulo corte helice

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Revolucion acople

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

'Helice de Corte

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis7", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Barrido Corte


```
boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

Else

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

End If

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
```

Part.InsertSketch2 True

Part.ClearSelection2 True

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857) /
2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),
0
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
```

```
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0
```

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0
Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis9", "EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
Part.SelectionManager.EnableContourSelection = 0

'Plano
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.ClearSelection2 True

'Circulo helice
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Helice de Corte
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis10", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Rectangulo helice
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES", 0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

Part.ShowNamedView2 "*Isométrica", 7

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\BLISTER.SLDPRT", 0, False, False

swApp.ActiveDoc.ActiveView.FrameLeft = 0

swApp.ActiveDoc.ActiveView.FrameTop = 0

swApp.ActiveDoc.ActiveView.FrameState = 1

swApp.ActiveDoc.ActiveView.FrameState = 1

Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)

Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\BLISTER.SLDPRT"

Dim DrawView As Object

Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS
MODELING\Partes\BLISTER.SLDPRT", "*Isométrica", 0.1627554696833,
0.1570664670057, 0)

boolstatus = Part.ActivateView("Vista de dibujo4")

Dim Annotations As Variant

Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\BLISTER.SLDDRW", 0, False, False

FORM_BLISTER_RING.Show

End Sub

Public Sub AXON()

'Definición parametros

Diametro = FORM_AXON.Diametro.Value / 1000

Paso = Diametro

RADIO_CIRCULO = Diametro / 2

Longitud = (FORM_AXON.Longitud.Value / 1000)

Angulo = Atn(Paso / 3.1416 / Diametro)

Base = 0.1 * Diametro

Profundidad = (FORM_AXON.Profundidad.Value / 1000)

Ancho = (FORM_AXON.Ancho.Value / 1000)

swApp.CloseDoc "AXON"

swApp.CloseDoc "AXON - Hoja1"

'Extrusion cilindro

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False, False, False, False, 0, 0, False, False, False, 1, 1, 1, 0, 0, False

Part.SelectionManager.EnableContourSelection = 0

'Perfil helice

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.SketchRectangle RADIO_CIRCULO - Profundidad, 0, 0, RADIO_CIRCULO, Base, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle2 0, 0, 0, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis3",
"EXTSKETCHSEGMENT", 0.00510479163502, 0.02651303646064, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, True, False, True, 2, Longitud - Base, Paso, 0, 0, 0

boolstatus = Part.Extension.SelectByID2("Croquis2", "SKETCH", 0.0095,
0.001637703732882, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
-0.002968244031081, -0.008755456080792, -0.006826547337653, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

```

```

'Plano1
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud - Base / 2, True, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

```

'Helice corte
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, RADIO_CIRCULO - Profundidad, 0
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis4",
"EXTSKETCHSEGMENT", 0.00510479163502, 0.02651303646064, 0, False, 0,
Nothing, 0)
Part.InsertHelix False, True, False, True, 2, Longitud, Paso, 0, 0, 1.57079632679

```

```

'Croquis corte
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle Longitud - Base / 2 - Ancho / 2, RADIO_CIRCULO -
Profundidad, 0, Longitud - Base / 2 + Ancho / 2, RADIO_CIRCULO + 0.005, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0.0175, 0, 0, False,
1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
0.003735404505491, -0.01383487602595, -0.006961252675714, True, 4, Nothing, 0)

```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

```
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
```

```
Part.BlankRefGeom
```

```
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.BlankSketch
```

```
boolstatus = Part.Extension.SelectByID2("Croquis1", "SKETCH", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.BlankSketch
```

```
'PUNTAS
```

```
If FORM_PUNTAS.OPCION_PUNTA1 = True Then
```

```
medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2
```

```
Y = Sqr(medida)
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
```

```
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
```

```
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA2 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO -
Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud
+ RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10,
(RADIO_CIRCULO - Profundidad) / 5, 0, 2
```

```
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

Part.SelectionManager.EnableContourSelection = 0

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True


```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

'Acople croquis

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, -
(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0,
(Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro /
1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5),
0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Plano

```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

'Circulo helice

```
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Rectangulo corte helice

```
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro /
1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Eje

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
Part.InsertAxis2 True
```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Revolucion acople

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

'Helice de Corte

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis7",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

Else

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

Part.SelectionManager.EnableContourSelection = 0

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", -0.06200000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

End If

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857)
/ 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),
0

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud
- (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0

Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0

Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro /
4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis9",
"EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)

Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice de Corte

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis10", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)

Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Rectangulo helice

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral4", "REFERENCECURVES", 0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

```
boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
```

```
Part.ShowNamedView2 "*Isométrica", 7
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\AXON.SLDPRT", 0, False, False
```

```
swApp.ActiveDoc.ActiveView.FrameLeft = 0
swApp.ActiveDoc.ActiveView.FrameTop = 0
swApp.ActiveDoc.ActiveView.FrameState = 1
swApp.ActiveDoc.ActiveView.FrameState = 1
```

```
Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)
Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\AXON.SLDPRT"
Dim DrawView As Object
Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS
MODELING\Partes\AXON.SLDPRT", "*Isométrica", 0.1627554696833,
0.1570664670057, 0)
boolstatus = Part.ActivateView("Vista de dibujo4")
```

```
Dim Annotations As Variant
Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\AXON.SLDDRW", 0, False, False
```

```
FORM_AXON.Show
End Sub
```

```
Public Sub PINES()
```

```
'Definición parametros
Diametro = FORM_PINES.Diametro.Value / 1000
Paso = Diametro
RADIO_CIRCULO = Diametro / 2
Longitud = (FORM_PINES.Longitud.Value / 1000)
Angulo = Atn(Paso / 3.1416 / Diametro)
Base = 0.1 * Diametro
Profundidad = (FORM_PINES.Profundidad.Value / 1000)
N_Pines = (FORM_PINES.N_Pines.Value)
N_repeticiones = (FORM_PINES.N_repeticiones.Value)
ANILLO_CEN = (Longitud / (N_repeticiones + 1)) - Base / 2
```

```
swApp.CloseDoc "PINES"
swApp.CloseDoc "PINES - Hoja1"
```

'Extrusión cilindro

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False, False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False

Part.SelectionManager.EnableContourSelection = 0

'Perfil helice

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.CreateLine2 RADIO_CIRCULO - Profundidad, 0, 0, RADIO_CIRCULO - Profundidad, Base, 0

Part.CreateLine2 RADIO_CIRCULO - Profundidad, Base, 0, RADIO_CIRCULO, Base, 0

Part.CreateLine2 RADIO_CIRCULO, Base, 0, RADIO_CIRCULO, 0, 0

Part.CreateLine2 RADIO_CIRCULO, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis3", "EXTSKETCHSEGMENT", 0.00510479163502, 0.02651303646064, 0, False, 0, Nothing, 0)

Part.InsertHelix True, True, False, True, 2, Longitud - Base, Paso, 0, 0, 0

'barrido

```
boolstatus = Part.Extension.SelectByID2("Croquis2", "SKETCH", 0.0095,
0.001637703732882, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
-0.002968244031081, -0.008755456080792, -0.006826547337653, True, 0, Nothing, 0)
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Croquis2", "SKETCH", 0.0095,
0.001637703732882, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
-0.002968244031081, -0.008755456080792, -0.006826547337653, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)
```

'Eje

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
Part.InsertAxis2 True
```

'perfil corte

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.SketchRectangle RADIO_CIRCULO, ANILLO_CEN - Profundidad, 0,
RADIO_CIRCULO - Profundidad, ANILLO_CEN + Espesor + Profundidad, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Corte

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

'línea construcción y círculo

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateCircleByRadius2 0, ANILLO_CEN, 0, Base / 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Matriz lineal corte

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Cortar-Revolución1", "BODYFEATURE",
0, 0, 0, True, 0, Nothing, 0)
Part.ActivateSelectedFeature
Part.ClearSelection2 True
```

```

boolstatus = Part.Extension.SelectByID2("Cortar-Revolución1", "BODYFEATURE",
0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureLinearPattern2(N_repeticiones,
ANILLO_CEN + Base, 1, 0.05, True, False, "NULL", "NULL", False)

```

'Extrusión

```

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis5",
"EXTSKETCHSEGMENT", 0.002493323830134, 0.0976825822502, 0, False, 0,
Nothing, 0)
Part.FeatureManager.FeatureExtrusion True, False, False, 0, 0, RADIO_CIRCULO, 0,
False, False, False, False, 0.01745329251994, 0.01745329251994, False, False, False,
False, 1, 1, 1

```

'Matriz circular (pines)

```

boolstatus = Part.Extension.SelectByID2("Extruir2", "BODYFEATURE", -
1.620331133267E-04, 0.015500000000009, -0.06477969631629, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(N_Pines, (360 / N_Pines) *
(3.1416 / 180), False, "NULL", False)

```

'Matriz lineal matriz circular

```

boolstatus = Part.Extension.SelectByID2("MatrizC1", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureLinearPattern2(N_repeticiones,
ANILLO_CEN + Base, 1, 0.05, True, False, "NULL", "NULL", False)

```

'PUNTAS

```

If FORM_PUNTAS.OPCION_PUNTA1 = True Then
medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2
Y = Sqr(medida)

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

```

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0

Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)

```

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)

```

Part.InsertAxis2 True


```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA2 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud
+ RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10,
(RADIO_CIRCULO - Profundidad) / 5, 0, 2
```

```
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

```

'Acople croquis
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, -
(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0,
(Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro /
1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5),
0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

```

```

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

'Plano
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

```

'Circulo helice
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

'Rectangulo corte helice
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro /
1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then
'Revolucion acople
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

```

'Helice de Corte
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis7",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

```

```
boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

Else

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

End If

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
```

```
Part.InsertSketch2 True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857) /
2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),
0
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
```

```
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0
```

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0
Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis9", "EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
Part.SelectionManager.EnableContourSelection = 0

'Plano
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.ClearSelection2 True

'Circulo helice
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Helice de Corte
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis10", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Rectangulo helice
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES", 0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

Part.ShowNamedView2 "*Isométrica", 7

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\PINES.SLDPRT", 0, False, False

swApp.ActiveDoc.ActiveView.FrameLeft = 0

swApp.ActiveDoc.ActiveView.FrameTop = 0

swApp.ActiveDoc.ActiveView.FrameState = 1

swApp.ActiveDoc.ActiveView.FrameState = 1

Set Part = swApp.NewDocument("C:\SolidWorks

2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)

Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\PINES.SLDPRT"

Dim DrawView As Object

Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS MODELING\Partes\PINES.SLDPRT", "*Isométrica", 0.1627554696833, 0.1570664670057, 0)

boolstatus = Part.ActivateView("Vista de dibujo4")

Dim Annotations As Variant

Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\PINES.SLDDRW", 0, False, False

FORM_PINES.Show

End Sub

Public Sub PINEAPPLE()

'Definicion parametros

Diametro = FORM_PINEAPPLE.Diametro.Value / 1000

RADIO_CIRCULO = Diametro / 2

Longitud = (FORM_PINEAPPLE.Longitud.Value / 1000)

PASO_H1 = FORM_PINEAPPLE.Paso.Value / 1000

Profundidad = FORM_PINEAPPLE.Profundidad.Value / 1000

PASO_H2 = (FORM_PINEAPPLE.Paso2.Value - 1) / 1000

Repeticion2 = FORM_PINEAPPLE.Repeticion2.Value

Repeticion1 = FORM_PINEAPPLE.Repeticion1.Value

Angulo1 = Atn(PASO_H1 / 3.1416 / Diametro)

ANGULO2 = Atn(PASO_H2 / 3.1416 / Diametro)

Base1 = FORM_PINEAPPLE.Ancho_1.Value / 1000

Base2 = FORM_PINEAPPLE.Ancho_2.Value / 1000

swApp.CloseDoc "ROMBOIDES"

swApp.CloseDoc "ROMBOIDES - Hoja1"

'Extrusión cilindro

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False, False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False

Part.SelectionManager.EnableContourSelection = 0

'Helice uno

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle 0, 0, 0, RADIO_CIRCULO, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2", "EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0, Nothing, 0)

Part.InsertHelix True, True, False, True, 2, Longitud + 0.05, PASO_H1, 6, 0, 0

'Perfil corte

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.SketchRectangle RADIO_CIRCULO, 0, 0, RADIO_CIRCULO - Profundidad, - Base1, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Corte Barrido

boolstatus = Part.Extension.SelectByID2("Croquis3", "SKETCH", 0.0125, - 0.003947929158187, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES", -0.006789158724359, -0.01625568249335, -0.01071895594424, True, 4, Nothing, 0)

Dim SweepFeature As Object

Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

'Perfil corte 2

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.SketchRectangle 0, RADIO_CIRCULO, 0, -Base2, RADIO_CIRCULO - Profundidad, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice 2

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle 0, 0, 0, RADIO_CIRCULO, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis5", "EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0, Nothing, 0)

Part.InsertHelix True, False, False, True, 2, Longitud + 0.05, PASO_H2, 6, 0, 1.57079632679

'Corte Barrido 2

boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", - 0.002918140349408, 0.0175, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES", -0.00509562120709, 0.01669784076063, -0.001692344473284, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

'Eje

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

'Matriz corte helice 2
boolstatus = Part.Extension.SelectByID2("Cortar-Barrer2", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion2, (360 *
(3.14159265359 / 180)) / Repeticion2, False, "NULL", False)

```

```

'Matriz corte helice 1
boolstatus = Part.Extension.SelectByID2("Cortar-Barrer1", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion1, (360 *
(3.14159265359 / 180)) / Repeticion1, False, "NULL", False)

```

'PUNTAS

```

If FORM_PUNTAS.OPCION_PUNTA1 = True Then
medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2
Y = Sqr(medida)

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

End If

If FORM_PUNTAS.OPCION_PUNTA2 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, 2
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA4 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA5 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
```

Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True

boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

'Acople croquis

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, -
(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0,
(Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro /
1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5),
0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True

Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.ClearSelection2 True

'Circulo helice
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Rectangulo corte helice
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Revolucion acople
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

'Helice de Corte

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis7", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", -0.062000000000309, 0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES", 8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False, 0, 0, False, 0, 0, 0, 1, 1, 0, 1)

Else

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1

Part.SelectionManager.EnableContourSelection = 0

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

End If

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857)
/ 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),
0
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud
- (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0
Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0
Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro /
4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis9",
"EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice de Corte

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis10", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)

Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Rectangulo helice

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral4", "REFERENCECURVES", 0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom


```
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
```

```
Part.ShowNamedView2 "*Isométrica", 7
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\ROMBOIDES.SLDPRT", 0, False,
False
```

```
swApp.ActiveDoc.ActiveView.FrameLeft = 0
swApp.ActiveDoc.ActiveView.FrameTop = 0
swApp.ActiveDoc.ActiveView.FrameState = 1
swApp.ActiveDoc.ActiveView.FrameState = 1
```

```
Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)
Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\ROMBOIDES.SLDPRT"
Dim DrawView As Object
Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS
MODELING\Partes\ROMBOIDES.SLDPRT", "*Isométrica", 0.1627554696833,
0.1570664670057, 0)
boolstatus = Part.ActivateView("Vista de dibujo4")
```

```
Dim Annotations As Variant
Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\ROMBOIDES.SLDDRW", 0, False,
False
FORM_PINEAPPLE.Show
```

```
End Sub
'Mezclador Maddock
Public Sub LEROY()
```

```
'Definicion parametros
Diametro = FORM_LEROY.Diametro.Value / 1000
RADIO_CIRCULO = Diametro / 2
Longitud = (FORM_LEROY.Longitud.Value / 1000)
Radio = (FORM_LEROY.Radio.Value / 1000)
Angulo1 = FORM_LEROY.Angulo.Value
Angulo = Angulo1 * 3.1416 / 180
X = Sin(Angulo) * RADIO_CIRCULO
Y = Cos(Angulo) * RADIO_CIRCULO
```

```
swApp.CloseDoc "MADDOCK"
swApp.CloseDoc "MADDOCK - Hoja1"
```

```
'Extrusión cilindro
```

```

Set Part = swApp.ActiveDoc
Set SelMgr = Part.SelectionManager
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,
Nothing, 0)
Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False,
False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False
Part.SelectionManager.EnableContourSelection = 0

```

```

'Croquis 1
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircleByRadius2 0, RADIO_CIRCULO, 0, Radio
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

'Plano1
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud, True, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

```

'Croquis 2
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircleByRadius2 X, Y, 0, Radio
Part.SketchManager.InsertSketch True

```

```

'Plano2
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud - 2 * Radio, False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

'Perfil redondeo 1

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateArc2 X, Y, 0, X - Radio, Y, 0, X + Radio, Y, 0, 0

Part.CreateLine2 X - Radio, Y, 0, X + Radio, Y, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Plano3

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreatePlaneAtOffset3 Longitud - 2 * Radio, True, True

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

'Perfil redondeo 2

boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateArc2 0, RADIO_CIRCULO, 0, -Radio, RADIO_CIRCULO, 0, Radio, RADIO_CIRCULO, 0, 0

Part.CreateLine2 -Radio, RADIO_CIRCULO, 0, Radio, RADIO_CIRCULO, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Redondeo 1

boolstatus = Part.Extension.SelectByID2("Line1@Croquis4", "EXTSKETCHSEGMENT", 0.0257001288885, -5.663055130377E-08, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

'Redondeo 2

boolstatus = Part.Extension.SelectByID2("Line1@Croquis5", "EXTSKETCHSEGMENT", 0.0257001288885, -5.663055130377E-08, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

.....

'PUNTAS

If FORM_PUNTAS.OPCION_PUNTA1 = True Then

medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2

Y = Sqr(medida)

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0

Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

Part.InsertAxis2 True

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1

Part.SelectionManager.EnableContourSelection = 0

End If

If FORM_PUNTAS.OPCION_PUNTA2 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0

Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

Part.InsertAxis2 True

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1

Part.SelectionManager.EnableContourSelection = 0

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0

Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, 2

Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

Part.InsertAxis2 True

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1

Part.SelectionManager.EnableContourSelection = 0

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0

Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

'Corte 1

```

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis3",
"EXTSKETCHSEGMENT", 0.0183580028436, 0.02161936140086, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis3",
"EXTSKETCHSEGMENT", 0.0183580028436, 0.02161936140086, 0, False, 0,
Nothing, 0)

```

```
Part.FeatureManager.FeatureCut False, False, True, 0, 0, Longitud - 2 * Radio,  
Longitud - 2 * Radio, False, False, False, False, 0.01745329251994,  
0.01745329251994, False, False, False, False, 0, 1, 1  
Part.SelectionManager.EnableContourSelection = 0
```

'Corte 2

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2",  
"EXTSKETCHSEGMENT", -0.003886088249997, 0.02594779645137, 0, False, 0,  
Nothing, 0)  
Part.ClearSelection2 True  
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2",  
"EXTSKETCHSEGMENT", -0.003886088249997, 0.02594779645137, 0, False, 0,  
Nothing, 0)  
Part.FeatureManager.FeatureCut True, False, False, 0, 0, Longitud - 2 * Radio, 0, False,  
False, False, False, 0.01745329251994, 0.01745329251994, False, False, False, False,  
0, 1, 1  
Part.SelectionManager.EnableContourSelection = 0
```

'Perfil de corte

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,  
Nothing, 0)  
Part.SketchRectangle Radio + Radio / 10, RADIO_CIRCULO - Radio / 3, 0, Longitud -  
Radio - Radio / 10, RADIO_CIRCULO + Radio, 0, 1  
Part.ClearSelection2 True  
Part.SketchManager.InsertSketch True
```

'eje

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,  
Nothing, 0)  
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,  
0)  
Part.InsertAxis2 True
```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'corte

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)  
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,  
Nothing, 0)  
Part.FeatureManager.FeatureRevolveCut Angulo, False, 0, 0, 0, 1, 1  
Part.SelectionManager.EnableContourSelection = 0  
Else
```

'corte

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)  
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0,  
Nothing, 0)  
Part.FeatureManager.FeatureRevolveCut Angulo, False, 0, 0, 0, 1, 1
```

Part.SelectionManager.EnableContourSelection = 0

End If

'matriz

boolstatus = Part.Extension.SelectByID2("Cortar-Revolución3", "BODYFEATURE", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Cortar-Extruir2", "BODYFEATURE", 0, 0, 0, True, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Cortar-Extruir1", "BODYFEATURE", 0, 0, 0, True, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Cortar-Revolución2", "BODYFEATURE", 0, 0, 0, True, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Cortar-Revolución1", "BODYFEATURE", 0, 0, 0, True, 4, Nothing, 0)

Set Feature = Part.FeatureManager.FeatureCircularPattern2(360 / (Angulo1 * 2), 6.28318530717 / Round((360 / (Angulo1 * 2))), False, "NULL", False)

'Acople croquis

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, - (Diametro / 3.461538462), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Plano


```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

'Circulo helice

```

boolstatus = Part.Extension.SelectByID2("Plano4", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Rectangulo corte helice

```

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro /
1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Revolucion acople

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

'Helice de Corte

```

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

```

```

boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

```

Else

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis9",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis10", "SKETCH", -
0.062000000000309, 0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA6 = True Then
```

```
'Acople croquis
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
```

```
Part.InsertSketch2 True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857)
/ 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),
0
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
```

```
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0
```

```
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud
- (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0
```

```
Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0
```

```
Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro /
4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Line6@Croquis10",
"EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis10", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

'Plano

```
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), True, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano5", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
```

'Circulo helice

```
boolstatus = Part.Extension.SelectByID2("Plano5", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Helice de Corte

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis11",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

'Rectangulo helice

```
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro /
3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625),
(Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Helice

```
boolstatus = Part.Extension.SelectByID2("Croquis12", "SKETCH", 0, 0, 0, False, 1,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
0, 0, 0, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)
```

End If

```

boolstatus = Part.Extension.SelectByID2("Plano5", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
boolstatus = Part.Extension.SelectByID2("Plano4", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
boolstatus = Part.Extension.SelectByID2("Plano3", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom

Part.ShowNamedView2 "*Isométrica", 7
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\MADDOCK.SLDPRT", 0, False, False

```

```

swApp.ActiveDoc.ActiveView.FrameLeft = 0
swApp.ActiveDoc.ActiveView.FrameTop = 0
swApp.ActiveDoc.ActiveView.FrameState = 1
swApp.ActiveDoc.ActiveView.FrameState = 1

```

```

Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)
Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\MADDOCK.SLDPRT"
Dim DrawView As Object
Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS
MODELING\Partes\MADDOCK.SLDPRT", "*Isométrica", 0.1627554696833,
0.1570664670057, 0)
boolstatus = Part.ActivateView("Vista de dibujo4")

```

```

Dim Annotations As Variant
Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\MADDOCK.SLDDRW", 0, False,
False

```

```

FORM_LEROY.Show
End Sub

```

```

Public Sub SAXTON()

```

```

'Definicion parametros
Diametro = FORM_SAXTON.Diametro.Value / 1000

```

RADIO_CIRCULO = Diametro / 2
Longitud = (FORM_SAXTON.Longitud.Value / 1000)
PASO_H1 = FORM_SAXTON.Paso.Value / 1000
Profundidad = FORM_SAXTON.Profundidad.Value / 1000
Repeticion = FORM_SAXTON.Repeticion.Value
Angulo1 = Atn(PASO_H1 / 3.1416 / Diametro)
Base1 = 0.1 * Diametro
Base2 = FORM_SAXTON.Ancho.Value / 1000

swApp.CloseDoc "SAXTON"
swApp.CloseDoc "SAXTON - Hoja1"

'Extrusión cilindro
Set Part = swApp.ActiveDoc
Set SelMgr = Part.SelectionManager
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle2 0, 0, 0, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,
Nothing, 0)
Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False,
False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False
Part.SelectionManager.EnableContourSelection = 0

'Helice uno
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle 0, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2",
"EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, True, False, True, 2, Longitud, Longitud * 2, 6, 0, 0

'Perfil
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True

Part.SketchRectangle RADIO_CIRCULO, 0, 0, RADIO_CIRCULO - Profundidad,
Base1 / 2, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Barrido

boolstatus = Part.Extension.SelectByID2("Croquis3", "SKETCH", 0.02338818381241,
-0.002500455901625, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
0.01949948351432, -0.002838632210569, -0.002875488986369, True, 4, Nothing, 0)

Dim SweepFeature As Object

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

'Eje

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)

Part.InsertAxis2 True

'Matriz

boolstatus = Part.Extension.SelectByID2("Barrer1", "BODYFEATURE", 0, 0, 0, False,
4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)

Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion, (361 *
(3.14159265359 / 180)) / Repeticion, False, "NULL", False)

'Perfil corte 2

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.SketchRectangle 0, RADIO_CIRCULO + 0.005, 0, -Base2, RADIO_CIRCULO -
Profundidad, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice 2

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle 0, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis5",
"EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0,
Nothing, 0)

Part.InsertHelix True, False, False, True, 2, Longitud + 0.05, PASO_H1, 6, 0,
1.57079632679

```
'Corte
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", -
0.002014197830217, 0.02241604575096, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
-0.006494731300165, 0.01347467795233, -0.001323301847862, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 1, 1, 0, 1)
```

'PUNTAS

```
If FORM_PUNTAS.OPCION_PUNTA1 = True Then
medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2
Y = Sqr(medida)
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

```
If FORM_PUNTAS.OPCION_PUNTA2 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
```

```
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud,  
RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,  
Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,  
0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing,  
0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA3 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,  
Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
```

```
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
```

```
Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud  
+ RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10,  
(RADIO_CIRCULO - Profundidad) / 5, 0, 2
```

```
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO -  
Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud,  
RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,  
Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,  
0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0, Nothing,  
0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
End If
```


If FORM_PUNTAS.OPCION_PUNTA4 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
```

Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

'Acople croquis

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, -
(Diametro / 3.461538462), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0,
(Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro /
1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5),
0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

```
'Rectangulo corte helice
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro /
1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
If FORM_PUNTAS.OPCION_PUNTA6 = True Then
'Revolucion acople
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
'Helice de Corte
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis7",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", -0.06200000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

```
Else
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", -0.06200000000309,
0.012, 0, False, 1, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",  
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,  
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

```
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA6 = True Then
```

```
'Acople croquis
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,  
0)
```

```
Part.InsertSketch2 True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857)  
/ 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),  
0
```

```
Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -  
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -  
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
```

```
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -  
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -  
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /  
2.647058824), 0
```

```
Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -  
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud  
- (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /  
2.647058824), 0
```

```
Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0
```

```
Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro /  
4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Line6@Croquis9",  
"EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0,  
Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
'Plano
```

```
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,  
Nothing, 0)
```

```
Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) -  
(Diametro / 1.451612903), True, True
```

```
Part.ClearSelection2 True
```

```
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
```

'Circulo helice

```
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Helice de Corte

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis10",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

'Rectangulo helice

```
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro /
3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625),
(Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

'Helice

```
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, False, 1,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral4", "REFERENCECURVES",
0, 0, 0, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)
```

End If

```
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
```

```
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom
```

```
Part.ShowNamedView2 "*Isométrica", 7
Part.ViewZoomtofit2
```

Part.SaveAs2 "C:\MIXERS MODELING\Partes\SAXTON.SLDPRT", 0, False, False

swApp.ActiveDoc.ActiveView.FrameLeft = 0
swApp.ActiveDoc.ActiveView.FrameTop = 0
swApp.ActiveDoc.ActiveView.FrameState = 1
swApp.ActiveDoc.ActiveView.FrameState = 1

Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)
Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\SAXTON.SLDPRT"
Dim DrawView As Object
Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS
MODELING\Partes\SAXTON.SLDPRT", "*Isométrica", 0.1627554696833,
0.1570664670057, 0)
boolstatus = Part.ActivateView("Vista de dibujo4")

Dim Annotations As Variant
Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)
Part.ViewZoomtofit2
Part.SaveAs2 "C:\MIXERS MODELING\Partes\SAXTON.SLDDRW", 0, False, False

FORM_SAXTON.Show

End Sub

Public Sub DULMAGE()

'Definición parametros
Diametro = FORM_DULMAGE.Diametro.Value / 1000
RADIO_CIRCULO = Diametro / 2
Longitud = (FORM_DULMAGE.Longitud.Value / 1000)
Profundidad = FORM_DULMAGE.Profundidad.Value / 1000
Repeticion = FORM_DULMAGE.Repeticion.Value
Cantidad = FORM_DULMAGE.Cantidad.Value
PASO_H1 = Diametro
Angulo1 = Atn(PASO_H1 / 3.1416 / Diametro)
Base1 = 0.1 * Diametro
Mitad = Longitud / (Cantidad + 1)
Ancho = FORM_DULMAGE.Ancho.Value / 1000

swApp.CloseDoc "DULMAGE"
swApp.CloseDoc "DULMAGE - Hoja1"

'Extrusión cilindro
Set Part = swApp.ActiveDoc
Set SelMgr = Part.SelectionManager
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,
Nothing, 0)
Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False,
False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False
Part.SelectionManager.EnableContourSelection = 0

'Helice uno

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle 0, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2",
"EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, True, False, True, 2, Longitud, Longitud * 2, 6, 0, 0

'Perfil

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.SketchRectangle RADIO_CIRCULO, 0, 0, RADIO_CIRCULO - Profundidad,
Base1 / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Barrido

boolstatus = Part.Extension.SelectByID2("Croquis3", "SKETCH", 0.02338818381241,
-0.002500455901625, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",
0.01949948351432, -0.002838632210569, -0.002875488986369, True, 4, Nothing, 0)
Dim SweepFeature As Object
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

'Eje

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)

Part.InsertAxis2 True

'Matriz

boolstatus = Part.Extension.SelectByID2("Barrer1", "BODYFEATURE", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)

Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion, (361 * (3.14159265359 / 180)) / Repeticion, False, "NULL", False)

'Perfil

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchRectangle Mitad - Ancho / 2, RADIO_CIRCULO + 0.01, 0, Mitad + Ancho / 2, RADIO_CIRCULO - Profundidad, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Corte

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

'Matriz

boolstatus = Part.Extension.SelectByID2("Cortar-Revolución1", "BODYFEATURE", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)

Set Feature = Part.FeatureManager.FeatureLinearPattern2(Cantidad, Mitad, 1, 0.05, False, False, "NULL", "NULL", False)

'PUNTAS

If FORM_PUNTAS.OPCION_PUNTA1 = True Then

medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2

Y = Sqr(medida)

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0

Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)


```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA2 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
```

```

Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud
+ RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10,
(RADIO_CIRCULO - Profundidad) / 5, 0, 2
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO -
Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud,
RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

'Acople croquis

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, - (Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
```

```

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Plano

```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

'Circulo helice

```

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Rectangulo corte helice

```

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro /
1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Revolucion acople

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

'Helice de Corte

```

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis6",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

```

```

boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

```

Else

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0

```

```

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis7",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

```

```

boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", -0.062000000000309,
0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)

```

```

Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

```

End If

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)

```

Part.InsertSketch2 True

Part.ClearSelection2 True

```

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857)
/ 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903),
0

```

```

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

```

```

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud -
(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro /
2.647058824), 0

```

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0
Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis8", "EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis8", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1
Part.SelectionManager.EnableContourSelection = 0

'Plano
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.ClearSelection2 True

'Circulo helice
boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Helice de Corte
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis9", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Rectangulo helice
boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis10", "SKETCH", 0, 0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES", 0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

Part.ShowNamedView2 "*Isométrica", 7

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\DULMAGE.SLDPRT", 0, False, False

swApp.ActiveDoc.ActiveView.FrameLeft = 0

swApp.ActiveDoc.ActiveView.FrameTop = 0

swApp.ActiveDoc.ActiveView.FrameState = 1

swApp.ActiveDoc.ActiveView.FrameState = 1

Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)

Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\DULMAGE.SLDPRT"

Dim DrawView As Object

Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS
MODELING\Partes\DULMAGE.SLDPRT", "*Isométrica", 0.1627554696833,
0.1570664670057, 0)

boolstatus = Part.ActivateView("Vista de dibujo4")

Dim Annotations As Variant

Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\DULMAGE.SLDDRW", 0, False,
False

FORM_DULMAGE.Show

End Sub

Public Sub DOUBLEWAVE()

'Definición parámetros

Diametro = FORM_DOUBLE.Diametro.Value / 1000

RADIO_CIRCULO = Diametro / 2

Longitud = (FORM_DOUBLE.Longitud.Value / 1000)

Profundidad = FORM_DOUBLE.Altura.Value / 1000

Paso = FORM_DOUBLE.Paso.Value / 1000

Angulo1 = Atn(Paso / 3.1416 / Diametro)

Base = 0.1 * Diametro

Ancho = Paso - Base

i = Longitud / Paso

swApp.CloseDoc "DOUBLE"

swApp.CloseDoc "DOUBLE - Hoja1"

'Extrusión cilindro

Set Part = swApp.ActiveDoc

Set SelMgr = Part.SelectionManager

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1", "EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0, Nothing, 0)

Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False, False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False

Part.SelectionManager.EnableContourSelection = 0

'circulo

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateCircle 0, 0, 0, 0, RADIO_CIRCULO - Profundidad * 2, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice profundidad variable

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2", "EXTSKETCHSEGMENT", -0.004591805796727, 0.01946574734052, 0, False, 0, Nothing, 0)

Part.FeatureManager.InsertVariablePitchHelix True, True, 0, 0


```
Part.FeatureManager.AddVariablePitchHelixSegment 0, RADIO_CIRCULO * 2 -  
Profundidad * 2, Paso  
For n = 1 To i + 3 ' + 3
```

```
If n >= Round(i) Then  
Part.FeatureManager.AddVariablePitchHelixSegment n, RADIO_CIRCULO * 2 -  
Profundidad * 2, Paso  
Else
```

```
If n / 2 = Round(n / 2) Then  
Part.FeatureManager.AddVariablePitchHelixSegment n, RADIO_CIRCULO * 2 -  
Profundidad * 4, Paso  
Else  
Part.FeatureManager.AddVariablePitchHelixSegment n, RADIO_CIRCULO * 2 -  
Profundidad * 2, Paso  
End If  
End If  
Next n  
Part.FeatureManager.EndVariablePitchHelix
```

```
'Perfil corte  
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,  
0)  
Part.SketchManager.InsertSketch True  
Part.ClearSelection2 True  
Part.SketchRectangle RADIO_CIRCULO - Profundidad * 2, 0, 0, RADIO_CIRCULO  
+ Ancho / 1.5, -Ancho, 0, 1  
Part.ClearSelection2 True  
Part.SketchManager.InsertSketch True
```

```
'Corte barrido  
boolstatus = Part.Extension.SelectByID2("Croquis3", "SKETCH", 0.045, -  
0.01820756157633, 0, True, 0, Nothing, 0)  
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",  
-0.00185248194083, 0.01276378493662, -0.03666285087695, True, 0, Nothing, 0)  
Part.ClearSelection2 True  
boolstatus = Part.Extension.SelectByID2("Croquis3", "SKETCH", 0.045, -  
0.01820756157633, 0, False, 1, Nothing, 0)  
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES",  
-0.00185248194083, 0.01276378493662, -0.03666285087695, True, 4, Nothing, 0)  
Dim SweepFeature As Object  
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,  
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

```
'PUNTAS  
If FORM_PUNTAS.OPCION_PUNTA1 = True Then  
medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2  
Y = Sqr(medida)
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
```

```
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
```

```
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA2 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
```

```
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
```

```
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

Part.SelectionManager.EnableContourSelection = 0

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0

Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, 2

Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud, RADIO_CIRCULO - Profundidad, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

Part.InsertAxis2 True

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1

Part.SelectionManager.EnableContourSelection = 0

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0

Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0

Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

If FORM_PUNTAS.OPCION_PUNTA5 = True Then

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0,
0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0,
Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

```

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing,
0)
Part.InsertAxis2 True

```

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If

```

'Acople croquis

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, -
(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0,
(Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0

```

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
 Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
 Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
 Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0
 Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
 Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
 Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
 Part.ClearSelection2 True
 Part.SketchManager.InsertSketch True

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
 Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro / 1.451612903), False, True
 Part.ClearSelection2 True
 boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
 Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
 Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
 Part.ClearSelection2 True
 Part.SketchManager.InsertSketch True

'Rectangulo corte helice

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
 Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
 Part.ClearSelection2 True
 Part.SketchManager.InsertSketch True

"Eje

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
If FORM_PUNTAS.OPCION_PUNTA6 = True Then
```

```
'Revolucion acople
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
'Helice de Corte
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis5", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
```

```
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", -0.062000000000309, 0.012, 0, False, 1, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES", 8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

```
Else
```

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis5", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis6", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)
```

```
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", -0.062000000000309, 0.012, 0, False, 1, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES", 8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

```
End If
```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.InsertSketch2 True

Part.ClearSelection2 True

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0

Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis7", "EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0

Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Helice de Corte

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679

'Rectangulo helice

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro /
3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625),
(Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, False, 1,
Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",
0, 0, 0, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False,
False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533,
0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)
Part.BlankRefGeom

Part.ShowNamedView2 "*Isométrica", 7

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\DOUBLE.SLDPRT", 0, False, False

swApp.ActiveDoc.ActiveView.FrameLeft = 0
swApp.ActiveDoc.ActiveView.FrameTop = 0
swApp.ActiveDoc.ActiveView.FrameState = 1
swApp.ActiveDoc.ActiveView.FrameState = 1

Set Part = swApp.NewDocument("C:\SolidWorks
2001\d000928.042.SWC\data\temp_a.slddrt", 0, 0.2159, 0.2794)


```
Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\DOUBLE.SLDPRT"  
Dim DrawView As Object  
Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS  
MODELING\Partes\DOUBLE.SLDPRT", "*Isométrica", 0.1627554696833,  
0.1570664670057, 0)  
boolstatus = Part.ActivateView("Vista de dibujo4")
```

```
Dim Annotations As Variant  
Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)  
Part.ViewZoomtofit2  
Part.SaveAs2 "C:\MIXERS MODELING\Partes\DOUBLE.SLDDRW", 0, False, False
```

```
FORM_DOUBLE.Show
```

```
End Sub
```

```
Public Sub EGAN()
```

```
'Definición parámetros  
Diametro = FORM_EGAN.Diametro.Value / 1000  
Longitud = (FORM_EGAN.Longitud.Value / 1000)  
RADIO_CIRCULO = Diametro / 2  
Profundidad = FORM_EGAN.Profundidad.Value / 1000  
Base1 = 0.1 * Diametro  
Repeticion = (FORM_EGAN.Repeticion.Value) * 2  
'Angulo = 30 * 3.1416 / 180  
Y = (Base1 / 2) / 2  
X = Sqr((RADIO_CIRCULO - Profundidad) ^ 2 - Y ^ 2)
```

```
swApp.CloseDoc "EGAN"  
swApp.CloseDoc "EGAN - Hoja1"
```

```
'Extrusión cilindro  
Set Part = swApp.ActiveDoc  
Set SelMgr = Part.SelectionManager  
boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,  
Nothing, 0)  
Part.ClearSelection2 True  
Part.CreateCircle2 0, 0, 0, 0, RADIO_CIRCULO - Profundidad, 0  
Part.ClearSelection2 True  
Part.SketchManager.InsertSketch True  
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",  
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,  
Nothing, 0)  
Part.ClearSelection2 True  
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis1",  
"EXTSKETCHSEGMENT", -0.008441796255905, -0.02353159739529, 0, False, 0,  
Nothing, 0)  
Part.FeatureManager.FeatureExtrusion2 True, False, True, 0, 0, Longitud, 0, False,  
False, False, False, 0, 0, False, False, False, False, 1, 1, 1, 0, 0, False
```

Part.SelectionManager.EnableContourSelection = 0

'Helice uno

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle 0, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis2", "EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0, Nothing, 0)

Part.InsertHelix True, True, False, True, 2, Longitud, Longitud * 2, 6, 0, 0

'Perfil

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.SketchRectangle RADIO_CIRCULO, 0, 0, RADIO_CIRCULO - Profundidad, - Base1 / 2, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Barrido

boolstatus = Part.Extension.SelectByID2("Croquis3", "SKETCH", 0.02338818381241, -0.002500455901625, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral1", "REFERENCECURVES", 0.01949948351432, -0.002838632210569, -0.002875488986369, True, 4, Nothing, 0)

Dim SweepFeature As Object

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

'Eje

boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)

Part.InsertAxis2 True

'Matriz circular

boolstatus = Part.Extension.SelectByID2("Barrer1", "BODYFEATURE", 0, 0, 0, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)

Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion, (361 * (3.14159265359 / 180)) / Repeticion, False, "NULL", False)

'Perfil de corte

```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.SketchRectangle RADIO_CIRCULO + 0.001, 0.002, 0, RADIO_CIRCULO -
Profundidad / 4, -(Base1 / 2) - 0.002, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Helice de corte

```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True
Part.CreateCircle 0, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis5",
"EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, True, False, True, 2, Longitud - Base1 / 2, Longitud * 2, 6, 0, 0

```

'Barrido Corte

```

boolstatus = Part.Extension.SelectByID2("Croquis4", "SKETCH", 0.02242277876714,
0, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral2", "REFERENCECURVES",
0, 0, 0, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

```

'Matriz circular

```

boolstatus = Part.Extension.SelectByID2("Cortar-Barrer1", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion / 2, (361 *
(3.14159265359 / 180)) / (Repeticion / 2), False, "NULL", False)

```

'Perfil

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.SketchRectangle RADIO_CIRCULO + Profundidad, 0, 0, RADIO_CIRCULO - 2
* Profundidad, Base1 / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Revolucion 1

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis6", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)

```

Part.FeatureManager.FeatureRevolve (410 * (3.14159265359 / 180)) / Repeticion,
False, 0, 0, 0, 1, 1, 1

'Matriz

boolstatus = Part.Extension.SelectByID2("Revolución1", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion / 2, (361 *
(3.14159265359 / 180)) / (Repeticion / 2), False, "NULL", False)

'Perfil corte remanente

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.SketchManager.InsertSketch True

Part.ClearSelection2 True

Part.CreateLine2 RADIO_CIRCULO - Profundidad, 0, 0, RADIO_CIRCULO, 0, 0

Part.ClearSelection2 True

Part.CreateLine2 RADIO_CIRCULO, 0, 0, RADIO_CIRCULO, Base1 / 2, 0

Part.ClearSelection2 True

Part.CreateLine2 RADIO_CIRCULO, Base1 / 2, 0, RADIO_CIRCULO - Profundidad,
Base1 / 2, 0

Part.ClearSelection2 True

Part.Create3PointArc RADIO_CIRCULO - Profundidad, 0, 0, RADIO_CIRCULO -
Profundidad, Base1 / 2, 0, X, Y, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice dos

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)

Part.ClearSelection2 True

Part.CreateCircle 0, 0, 0, RADIO_CIRCULO - Profundidad, 0, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis8",
"EXTSKETCHSEGMENT", -0.01608245812088, 0.01914039029879, 0, False, 0,
Nothing, 0)

Part.InsertHelix True, True, False, True, 2, Longitud, Longitud * 2, 6, 0, 0

'Corte remanente

boolstatus = Part.Extension.SelectByID2("Croquis7", "SKETCH", 0.02242277876714,
0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral3", "REFERENCECURVES",
0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)

'Matriz

boolstatus = Part.Extension.SelectByID2("Cortar-Barrer2", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion / 2, (361 *
(3.14159265359 / 180)) / (Repeticion / 2), False, "NULL", False)

```

'Perfil

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.SketchRectangle -RADIO_CIRCULO - 0.001, Longitud - Base1 / 2, 0, -
RADIO_CIRCULO + 0.001 + Profundidad, Longitud, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Revolucion 1

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis9", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve (360 * (3.14159265359 / 180)) / Repeticion, True,
0, 0, 0, 1, 1, 1

```

'Matriz

```

boolstatus = Part.Extension.SelectByID2("Revolución2", "BODYFEATURE", 0, 0, 0,
False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, True, 1, Nothing, 0)
Set Feature = Part.FeatureManager.FeatureCircularPattern2(Repeticion / 2, (361 *
(3.14159265359 / 180)) / (Repeticion / 2), False, "NULL", False)

```

'Perfil

```

boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.SketchRectangle -RADIO_CIRCULO, 0, 0, -RADIO_CIRCULO - 0.02, Longitud,
0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Revolucion 1

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis10", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

```

'PUNTAS

```

If FORM_PUNTAS.OPCION_PUNTA1 = True Then
medida = (Diametro - 2 * Profundidad) ^ 2 - (RADIO_CIRCULO - Profundidad) ^ 2
Y = Sqr(medida)

```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
```

```
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
```

```
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

```
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA2 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
```

```
Part.SketchManager.InsertSketch True
```

```
Part.ClearSelection2 True
```

```
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
```

```
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
```

```
Part.CreateLine2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
```

```
Part.ClearSelection2 True
```

```
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
```

```
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
```

```
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA3 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + RADIO_CIRCULO - Profundidad, 0, 0
Part.CreateTangentArc2 Longitud + RADIO_CIRCULO - Profundidad, 0, 0, Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, 2
Part.CreateLine2 Longitud + RADIO_CIRCULO - Profundidad - (RADIO_CIRCULO - Profundidad) / 10, (RADIO_CIRCULO - Profundidad) / 5, 0, Longitud, RADIO_CIRCULO - Profundidad, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

End If

If FORM_PUNTAS.OPCION_PUNTA4 = True Then

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 2, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

```
If FORM_PUNTAS.OPCION_PUNTA5 = True Then
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.SketchManager.InsertSketch True
Part.ClearSelection2 True
Part.CreateLine2 Longitud, RADIO_CIRCULO - Profundidad, 0, Longitud, 0, 0
Part.CreateLine2 Longitud, 0, 0, Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0
Part.CreateTangentArc2 Longitud + (RADIO_CIRCULO - Profundidad) / 3, 0, 0, Longitud, RADIO_CIRCULO - Profundidad, 0, 2
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True
```

```
boolstatus = Part.Extension.SelectByID2("Vista lateral", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, True, 0, Nothing, 0)
Part.InsertAxis2 True
```

```
boolstatus = Part.Extension.SelectByID2("Eje2", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
End If
```

```
'Acople croquis
```

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing, 0)
Part.InsertSketch2 True
Part.ClearSelection2 True
Part.CreateLine2 (Diametro / 1.607142857) / 2, 0, 0, (Diametro / 1.607142857) / 2, - (Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
```



```

Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5),
0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5), 0, (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.607142857) / 2, -(Diametro / 3.461538462) - (Diametro
/ 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, -(Diametro / 3.461538462) -
(Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 (Diametro / 1.875) / 2, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, -(Diametro / 3.461538462)
- (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0
Part.CreateLine2 0, 0, 0, (Diametro / 1.607142857) / 2, 0, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Plano

```

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreatePlaneAtOffset3 (Diametro / 3.461538462) + (Diametro / 4.5) + (Diametro /
1.451612903), False, True
Part.ClearSelection2 True
boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.ClearSelection2 True

```

'Circulo helice

```

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

'Rectangulo corte helice

```

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0,
Nothing, 0)
Part.SketchRectangle -(Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro /
1.451612903), (Diametro / 1.875) / 2, 0, -(Diametro / 3.461538462) - (Diametro / 4.5) -
(Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1
Part.ClearSelection2 True
Part.SketchManager.InsertSketch True

```

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Revolucion acople

```

boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)

```

```
boolstatus = Part.Extension.SelectByID2("Croquis11", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

'Helice de Corte

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis12",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis13", "SKETCH", -
0.062000000000309, 0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral4", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

Else

```
boolstatus = Part.Extension.SelectByID2("Eje1", "AXIS", 0, 0, 0, False, 4, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Croquis12", "SKETCH", 0, 0, 0, True, 0,
Nothing, 0)
Part.FeatureManager.FeatureRevolve 6.28318530718, False, 0, 0, 0, 1, 1, 1
Part.SelectionManager.EnableContourSelection = 0
```

```
boolstatus = Part.Extension.SelectByID2("Arc1@Croquis13",
"EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0,
Nothing, 0)
Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0,
1.57079632679
```

```
boolstatus = Part.Extension.SelectByID2("Croquis14", "SKETCH", -
0.062000000000309, 0.012, 0, False, 1, Nothing, 0)
boolstatus = Part.Extension.SelectByID2("Hélice/Espiral4", "REFERENCECURVES",
8.171677064865E-04, -0.01168267445098, 0.04587268431172, True, 4, Nothing, 0)
```

```
Set SweepFeature = Part.FeatureManager.InsertCutSwept3(False, True, 0, False, False,
0, 0, False, 0, 0, 0, 0, 1, 1, 0, 1)
```

End If

If FORM_PUNTAS.OPCION_PUNTA6 = True Then

'Acople croquis

```
boolstatus = Part.Extension.SelectByID2("Planta", "PLANE", 0, 0, 0, False, 0, Nothing,
0)
Part.InsertSketch2 True
Part.ClearSelection2 True
```

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.607142857) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), 0, (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 (Diametro / 1.875) / 2, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.CreateLine2 0, Longitud, 0, (Diametro / 1.607142857) / 2, Longitud, 0

Part.CreateLine2 0, Longitud, 0, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 2.647058824), 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

boolstatus = Part.Extension.SelectByID2("Line6@Croquis14", "EXTSKETCHSEGMENT", 0, 0, -0.2, False, 4, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Croquis14", "SKETCH", 0, 0, 0, True, 0, Nothing, 0)

Part.FeatureManager.FeatureRevolveCut 6.28318530718, False, 0, 0, 0, 1, 1

Part.SelectionManager.EnableContourSelection = 0

'Plano

boolstatus = Part.Extension.SelectByID2("Alzado", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreatePlaneAtOffset3 Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), True, True

Part.ClearSelection2 True

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.ClearSelection2 True

'Circulo helice

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.CreateCircle2 0, 0, 0, 0, (Diametro / 1.875) / 2, 0

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice de Corte

boolstatus = Part.Extension.SelectByID2("Arc1@Croquis15", "EXTSKETCHSEGMENT", 0.008495546316039, 0.01027635492623, 0, False, 0, Nothing, 0)

Part.InsertHelix True, False, False, True, 1, (Diametro / 1.451612903), 0.0175, 2, 0, 1.57079632679

'Rectangulo helice

boolstatus = Part.Extension.SelectByID2("Vista Lateral", "PLANE", 0, 0, 0, False, 0, Nothing, 0)

Part.SketchRectangle Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903), (Diametro / 1.875) / 2, 0, Longitud - (Diametro / 3.461538462) - (Diametro / 4.5) - (Diametro / 1.451612903) - (Diametro / 5.625), (Diametro / 1.607142857) / 2, 0, 1

Part.ClearSelection2 True

Part.SketchManager.InsertSketch True

'Helice

boolstatus = Part.Extension.SelectByID2("Croquis16", "SKETCH", 0, 0, 0, False, 1, Nothing, 0)

boolstatus = Part.Extension.SelectByID2("Hélice/Espiral5", "REFERENCECURVES", 0, 0, 0, True, 4, Nothing, 0)

Set SweepFeature = Part.FeatureManager.InsertProtrusionSwept3(False, False, 0, False, False, 0, 0, False, 0, 0, 0, 0, 1, 1, 1, 0, 1)

End If

boolstatus = Part.Extension.SelectByID2("Plano1", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

boolstatus = Part.Extension.SelectByID2("Plano2", "PLANE", 0.07609773169533, 0.07590696409104, -0.1975227441711, False, 0, Nothing, 0)

Part.BlankRefGeom

Part.ShowNamedView2 "*Isométrica", 7

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\EGAN.SLDPRJT", 0, False, False

swApp.ActiveDoc.ActiveView.FrameLeft = 0

swApp.ActiveDoc.ActiveView.FrameTop = 0

swApp.ActiveDoc.ActiveView.FrameState = 1

swApp.ActiveDoc.ActiveView.FrameState = 1

Set Part = swApp.NewDocument("C:\SolidWorks 2001\d000928.042.SWC\data\temp_a.sldprt", 0, 0.2159, 0.2794)

Part.Create3rdAngleViews "C:\MIXERS MODELING\Partes\EGAN.SLDPRJT"

Dim DrawView As Object

Set DrawView = Part.CreateDrawViewFromModelView2("C:\MIXERS MODELING\Partes\EGAN.SLDPRJT", "*Isométrica", 0.1627554696833, 0.1570664670057, 0)

boolstatus = Part.ActivateView("Vista de dibujo4")

Dim Annotations As Variant

Annotations = Part.InsertModelAnnotations3(0, 32776, True, True, False, False)

Part.ViewZoomtofit2

Part.SaveAs2 "C:\MIXERS MODELING\Partes\EGAN.SLDDRW", 0, False, False

FORM_EGAN.Show

End Sub