

KETIV

Manufacturing Innovation. Together.

```
Dim strSize As String
```

```
' In our gunline assembly model template, we have the default feed line set at 4"
' If the user selects to have the 6" line, we need to do a component replace to put the 6" line into the assembly
```

```
If GUNLINE_SIZE = 4 in Then
    strSize = "4"
```

```
Else
    strSize = "6"
    Component.Replace("ANSI A53B 4 - Gunline:1", TEMPLATE_PATH & "Gunline Assy\ANSI A53B 6 - Gunline.ipt", True)
End If
```

```
' This code finds the part we need for the gunline feed, and makes a copy of it in our new project folder
' It uses the methodology where we basically open the template file, and then do a "Save As" operation to get our new file
```

```
Dim strTemplateFile, strNewFile As String
```

```
strTemplateFile = TEMPLATE_PATH & "Gunline Assy\ANSI A53B " & strSize & " - Gunline.ipt"
```

```
strNewFile = PROJECT_PATH & PROJECT_ID & "\Gunline Assy\ANSI A53B " & strSize & " - Gunline - " & PROJECT_ID & ".ipt"
```

```
If System.IO.File.Exists(strNewFile) = False Then
```

```
    Dim oRefDoc As Document
```

```
    ' This code will set a reference to the template file, which will be used to do the "Save As" operation in the following line of code
```

```
    oRefDoc = ThisApplication.Documents.ItemByName(strTemplateFile)
```

```
    oRefDoc.SaveAs(strNewFile, False)
```

```
End If
```

```
' Once we have the new part in our Gunline Assy project folder, we need to replace the reference to the old part with the new one
```

```
Dim oAsmDoc As AssemblyDocument
```

```
oAsmDoc = ThisApplication.Documents.ItemByName(PROJECT_PATH & PROJECT_ID & "\Gunline Assy\Gunline Assy - " & PROJECT_ID & ".iam")
```

```
oAsmDoc.File.ReferencedFileDescriptors.Item(TEMPLATE_PATH & "Gunline Assy\ANSI A53B " & strSize & " - Gunline.ipt").ReplaceReference(PROJECT_PATH & PROJECT_ID & "\Gunline Assy\ANSI A53B " & strSize & " - Gunline - " & PROJECT_ID & ".ipt")
```

```
' This establishes the constraint that aligns the nozzle assembly with the hole in the tube we just substituted
```

```
Constraints.AddMate("Mate:1", "ANSI A53B XS 2-26:1", "Face0",
    "ANSI A53B " & strSize & " - Gunline - " & PROJECT_ID & ":1", "Hole_Surface",
    e1InferredType := InferredTypeEnum.kInferredLine,
    e2InferredType := InferredTypeEnum.kInferredLine,
    solutionType := MateConstraintSolutionTypeEnum.kAlignedSolutionType)
```