

BDSMagnetOuterFactoryPolesBase

```
# poleFraction  
# poleAngularFraction  
# poleTipFraction  
# poleStartRadius  
# poleFinishRadius  
# yokeStartRadius  
# yokeFinishRadius
```

```
+ BDSMagnetOuterFactoryPolesBase()  
+ CreateSectorBend()  
+ CreateRectangularBend()  
+ CreateQuadrupole()  
+ CreateSextupole()  
+ CreateOctupole()  
+ CreateDecapole()  
+ CreateSolenoid()  
+ CreateMultipole()  
+ CreateRfCavity()  
+ CreateMuSpoiler()  
+ CreateKicker()  
# CleanUp()  
# CalculatePoleAndYoke()  
# CreatePoleSolid()  
# CreateYokeAndContainerSolid()  
# CreateLogicalVolumes()  
# PlaceComponents()  
# CommonConstructor()  
# TestInputParameters()  
# KickerConstructor()
```

```
std::vector< G4RotationMatrix * >  
- elements
```

```
std::vector< G4LogicalVolume * >  
- elements
```

```
std::vector< G4VSolid * >  
- elements
```

BDSMagnetOuterFactoryPolesSquare

```
- poleRotations  
- poleSolids  
- poleLVs  
- _instance
```

```
+ ~BDSMagnetOuterFactoryPolesSquare()  
+ Instance()  
- BDSMagnetOuterFactoryPolesSquare()  
- CleanUp()  
- CreatePoleSolid()  
- CreateYokeAndContainerSolid()  
- CreateLogicalVolumes()  
- PlaceComponents()  
- CommonConstructor()
```

_instance

poleRotations

poleLVs

poleSolids

