

# User Manual 4.0 Disk

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### Definition

Disks are used for the [finite rectangle cones](#).



### Implementation

The Disk object implements the [SolidShape interface](#) and extends the [Disk and abstract ellipse](#) class. Please refer to the [Disk and AbstractEllipse javadoc](#) for a complete list of public methods.

### Instantiation

The disk object is built from a centre (Vector3D), one vector representing the normal to the disk surface (Vector3D) and one radius :

```
Vector3D center = new Vector3D(1.0, 1.0, 1.0);
Vector3D normal = new Vector3D(1.0, 1.0, 0.0);
double radius = 1;
Disk disk = new Disk(center, normal, radius);
```

The local frame of the disk is built from the normal vector.

### Usage

See [abstract ellipse](#) and [interactions with geometrical objects](#).

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