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Construction of the cycloidal drive. The cycloidal disc shown

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above will in the following be used to show the determination of the parameters required for the construction of the cycloidal drive. The reference circle on which the fixed pins are arranged is chosen in this case with  $D = 160$  mm.

### **Construction of the cycloidal disc - tec-science**

Here, a cycloid is

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constructed for this objective: A thin circular disc of 25 mm diameter is allowed to roll down from the upper end of a sloping plank which is inclined at  $15^\circ$  with the horizontal...

### **Construction of Cycloid - Cycloids - Engineering Graphics**

In geometry, a cycloid is the curve traced by a point on a circle as it

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rolls along a straight line without slipping. A cycloid is a specific form of trochoid and is an example of a roulette , a curve generated by a curve rolling on another curve.

### **Cycloid - Wikipedia**

Steps for Construction of Cycloid: Draw the rolling circle of diameter ( $2r$ ) 40mm. Draw the base line PQ equal to the

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circumference of the rolling circle at P. Divide the rolling circle into 12 equal parts as 1,2,etc. Draw horizontal lines through the points 1,2,etc. Note: As the rolling circle is assumed to roll Clock-Wise(CW), numbering of the division points on it should be in Counter Clock Wise (CCW) direction.

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CYCLOIDS AND THEIR  
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cycloid is a curve

generated by a point

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on the circumference of the circle as the circle rolls along a straight line... The moving circle is called the "Generating circle" and the straight line is called the "Directing line" or the "Base... The point on the ...

## **Engineering drawing: CYCLOIDS AND THEIR CONSTRUCTION**

In Fig-1: Animated view of cycloidal reducer

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shows the actual construction of cycloidal reducer. The green shaft in Fig-1 is the eccentric shaft or also known as input shaft. The input shaft is connected to the motor. When the motor rotates it turns the input shaft which in turn rotates the bearing.

## **Design and Fabrication of Cycloidal Gearbox -**

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Construction of a Cycloid. Below is a discription of how to construct a Cycloid for a point P on a circle as it rotates along a straight line without slipping. Firstly draw the circle and a line from its base to the left or right.

## **Basic Cycloid - PracticalStudent.co m**

A cycloid is a curve

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generated by a point  
on the circumference  
of a circle Which rolls  
in a plane surface  
along a straight line  
without slipping  $\pi D$  1 2  
3 4 5 6...

## **Step by Step process of drawing cycloid**

Thus the path of the  
pendulum bob (shown  
as a dashed line in  
Figure XIX.10) is a  
cycloid, and hence its  
period is independent

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of its amplitude. (Recall Section 19.5.) Thus the pendulum is isochronous or tautochronous. It is astonishing to learn that Huygens constructed just such a pendulum as long ago as 1673.

### **19.9: The Cycloidal Pendulum - Physics LibreTexts**

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EPICYCLOIDS AND  
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The path traced out by  
a point on the edge of  
construction circle of  
radius rolling on the  
outside of a circle of  
radius. Area of  
Epicycloid and  
Hypocycloid Okay Arik.

#### **EPICYCLOID**

#### **CONSTRUCTION PDF**

The construction for  
the hypocycloid (Fig.

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10.16) is very similar to that for the epicycloid, but note that the rolling circle rotates in the opposite direction for this construction. It is often necessary to study the paths taken by parts of oscillating, reciprocating, or rotating mechanisms; from a knowledge of displacement and time, Hypocycloid

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#### - **Joshua Nava Arts**

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