

Presented by

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RECAP!!!







Double Slider Crank Mechanisms - A double slider crank chain consist of two sliding pairs and two turning pairs. There are two sliders and one crank.

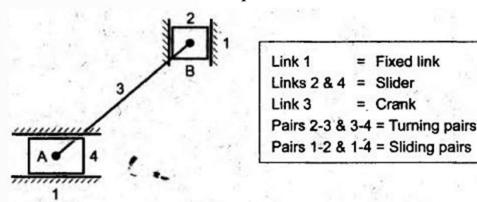
The four links of double slider crank chain are:

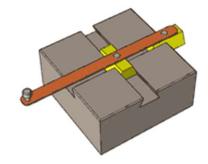
1. Frame: The fixed link is known as frame.

2. **Slider**: A link that reciprocates is called as slider.

3. **Crank:** A link that makes complete revolutions is called as crank.

4. Slider : A link that reciprocates is called as slider.











First Inversion:

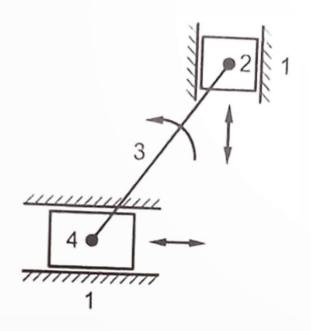
Link 1 – Fixed;

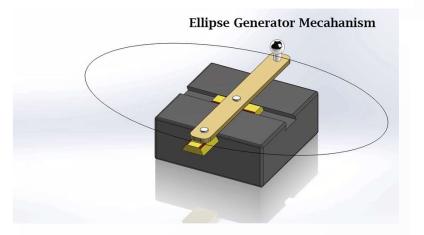
Link 2 & 4 – Reciprocates;

Link 3 – Rotates;

Practical Applications:

Elliptical Trammel











Second Inversion:

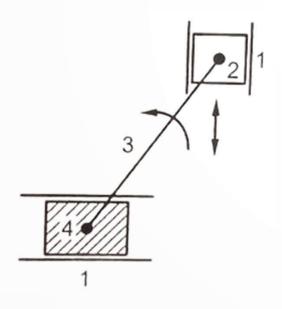
Link 1 – Reciprocates;

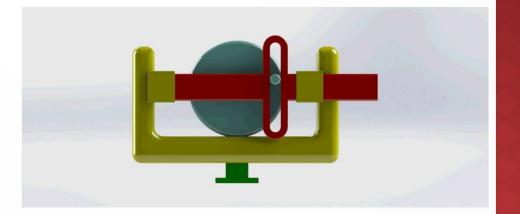
Link 2 & 4 - Fixed;

Link 3 – Rotates;

Practical Applications:

Scotch yoke mechanism











Third Inversion:

Link 1 – Rotates;

Link 2 & 4 – Reciprocates;

Link 3 – Fixed;

3 1 1

Practical Applications:

Oldham's coupling









ASSESSMENT!!!