

Functional Mechanical Design

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Turning pad subsystem

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7. Design the motion law of the tilting pad
8. Synthesize the slider crank mechanism and the cam mechanisms with a translating follower
9. Analyse the mechanism through kinematic parameters (transmission angle, pressure angle and undercut) and compute the motion law obtained with the designed mechanism
10. Calculate forces transmitted and the motor torque with a multibody model.
11. Critically evaluate the feasibility of the system