

Task 2 Shaping Machine (Whitworth Mechanism)

Task

The shaping machine in Task 1 is reconsidered. The masses of the sliders are negligible. The shaft rotates with constant rpm n_1 .

- The frame torque should be analytically determined. The centre of gravity S_3 has the distance h to the x-axis.
- For the external dead position and for the position $\varphi = 38^\circ$ the frame torque should be numerically determined ($J_{B_0} = 1,6 \text{ kgm}^2$).

