

Results:

1. Inertia Forces:

Vertical inertia force: 950 kN

Horizontal inertia force: 400 kN

Vertical acceleration: 3.8 g

2. Time Analysis:

Time for vertical velocity to become zero: 0.0993 s

3. Rotational Analysis:

Angular acceleration: 3.89 rad/s²

Angular velocity: 0.386477 rad/s

