

displacement X	25 cm
transmitted x	32 cm
damping coeff c	7600 kg/s
mass m	825 kg
speed v	220 km/h
length L	4 m

damping ratio 0.625783

underdamped

Stiffness	44695.74
natural frequency	7.360479 rad/s
speed	16.86898 km/h
period	0.065455 s

frequency 95.99311 rad/s

New transmission

r	13.04169
x	2.406688 cm