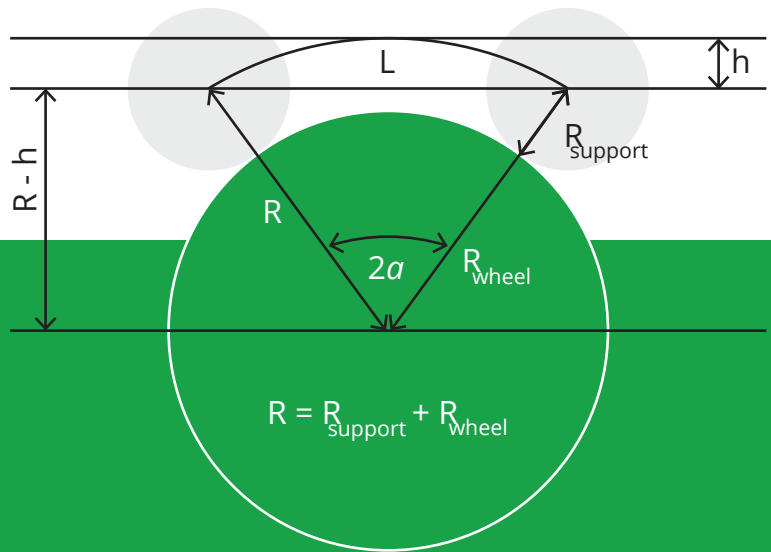


## Versine principle to calculate wheel diameter



$$R_{\text{wheel}} = \frac{(0.5L)^2 + h^2}{2h} - R_{\text{support}}$$

$$R = R_{\text{support}} + R_{\text{wheel}}$$

Wheel diameter/back plate	250 mm	400 mm
800 mm	0,09	0,03
1000 mm	0,15	0,05
1200 mm	0,22	0,08

**Theoretic diameter accuracy to obtain with 250mm vs 400mm back plate, based on a 100 % perfect wheel**

## Important note: Error amplification as function of wheel diameter

Error amplification (times)

