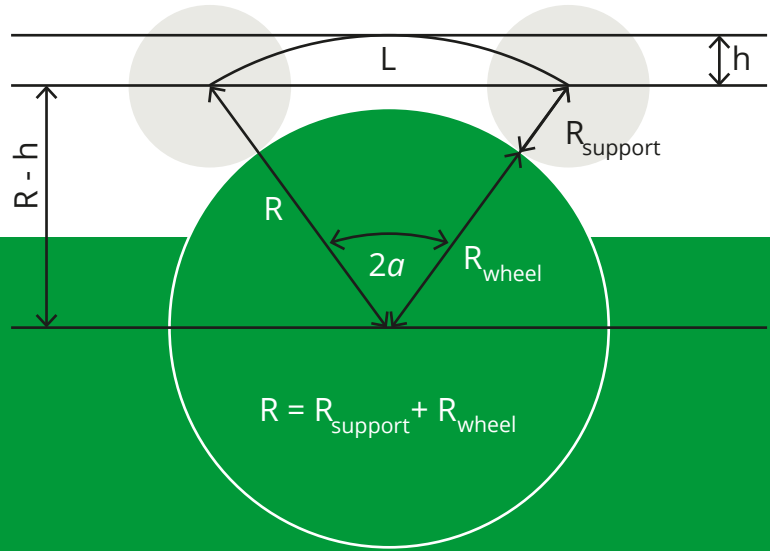


Versine principle to calculate wheel diameter



$$R_{\text{wheel}} = \frac{(\frac{1}{2}L)^2 + h^2}{2h} - R_{\text{support}}$$

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

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

Theoretical diameter accuracy obtainable with 250 mm vs. 400 mm back plate, based on a 100% perfect wheel

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

Error amplification (times)

