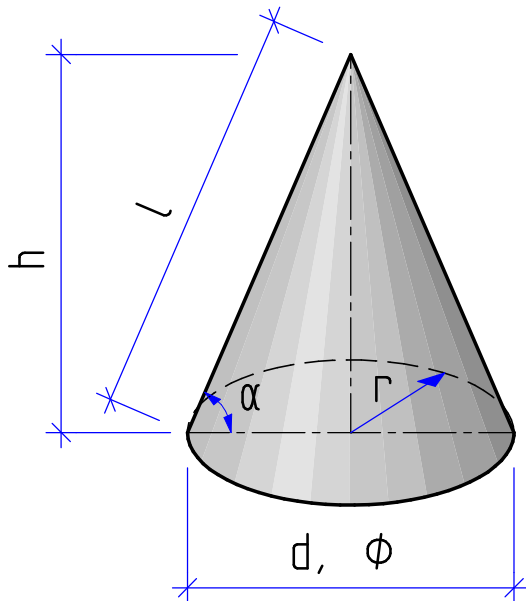


# Der Kegel



- l = Mantellinie
- d = Durchmesser
- h = Höhe
- V = Volumen
- A<sub>G</sub> = Grundfläche
- A<sub>M</sub> = Mantelfläche
- A<sub>0</sub> = Oberfläche

Volumen: [m<sup>3</sup>]

$$V = \frac{h}{3} * r^2 * \pi$$

$$V = \frac{h}{12} * d^2 * \pi$$

Oberfläche: [m<sup>2</sup>]

$$A_G = r^2 * \pi$$

$$A_M = \frac{d * \pi * l}{2}$$

$$A_0 = A_G + A_M$$

$$l = \sqrt{r^2 + h^2} \quad [m]$$

Winkel

$$\alpha = \tan^{-1} \frac{h}{r}$$