Cylinders:

$$cyl_x(r, l, \theta) := \begin{pmatrix} l \\ r \cdot \cos(\theta) \\ r \cdot \sin(\theta) \end{pmatrix} \qquad cyl_y(r, l, \theta) := \begin{pmatrix} r \cdot \cos(\theta) \\ l \\ r \cdot \sin(\theta) \end{pmatrix} \qquad cyl_z(r, l, \theta) := \begin{pmatrix} r \cdot \cos(\theta) \\ r \cdot \sin(\theta) \\ l \end{pmatrix}$$
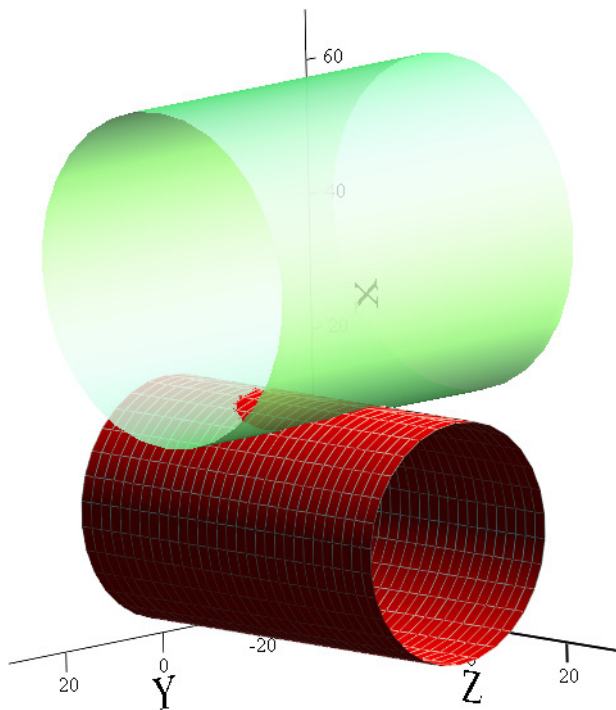
Cylinder size: Distance between cylinders:

$R_1 := 18$ $d := 40$

$R_2 := 25$

$$Cyl_1(a, b) := cyl_z(R_1, a, b) \qquad Cyl_2(a, b) := cyl_y(R_2, a, b) + \begin{pmatrix} d \\ 0 \\ 0 \end{pmatrix}$$

Cyl_1, Cyl_2