```python
# Static detector at custom position
T = ts.translate(det_pos)
static_pg = ts.parallel(angles=1, shape=det_shape)
pg = T * pg_static.to_vec()

# Static volume at custom position
vg_static = ts.volume(pos=vol_pos, shape=vol_shape)

# Rotate the volume
R = ts.rotate(pos=rot_axis_pos, axis=z_axis, angles=angles)
vg = R * vg_static.to_vec()

A = ts.operator(vg, pg)
```