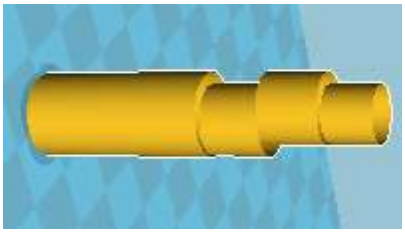
by Fritz Ruoss

GR3: Input eccentricity or profile coefficient of cycloid disk

The profile factor (shortening of the cycloid) x for the cycloid disk can be between 0.1 and 0.9. A large x means a small tooth height. The eccentricity is determined from x, the number of bolts and the hole circle diameter: exz = dH*(1-x)/(2N). You can now first enter a profile factor between 0.1 and 0.9, then change the eccentricity to a round number.

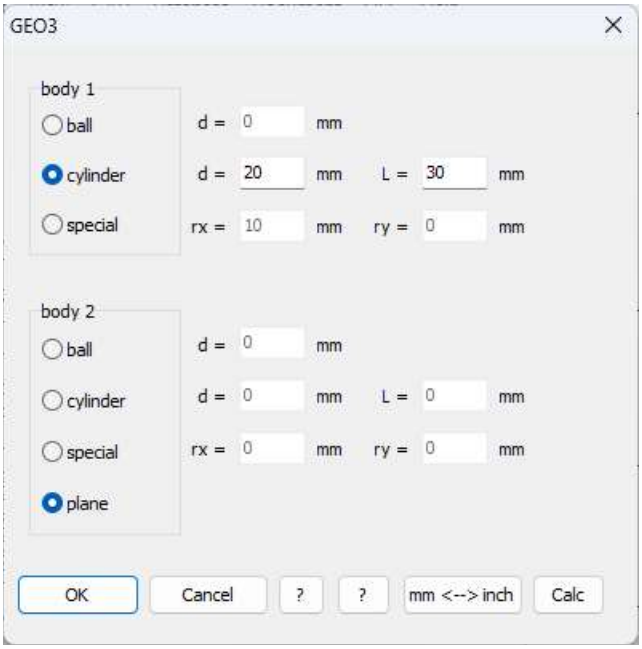
GR2: double eccentric drive shaft for mass balancing



In the STL menu, you can now generate a double eccentric drive shaft with an opposing eccentric for 2 planetary gears. This prevents unbalanced forces in high-speed drives. When using a gear pair, make sure that the ring gear has an even number of teeth, so that the teeth are exactly opposite each other.

GEO3: Calculations ball-plane, cylinder-plane, special-plane

The pairings ball-plane, cylinder-plane, and special-plane are now calculated again. Sometimes an error message appeared here (Fatal: r=0!)



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