Sample Changer 9-cog Idle wheels (7 needed per system)

1" = 1"

Inner cusps have a minimum distance from the center of 1.19"

The radius of each of the 9 cusps is .68", to fit the sample cups of the snake chain.

40 degrees between cusps

Inner diameter of the plug is ~1", to fit snugly inside the ball bearing assembly. The outer part is 1.18", to grip the inner sleeve of the ball bearing and hold it to the base plate firmly. The nanocog plastic rim is milled so that the bearing holds it up enough to clear the teflon base plate with a snug fit.

1.6" od

Machine from 0.6" thick Dalran plastic.

1" id

McMaster-Carr Supply Co., thermoplastic semi-precision ball bearings. standard open Delrin Raceways with glass balls PN-6455K88

Plastic plug to hold bearing assembly firmly to base plate, with 1/4" hole to anchor to base plate.

0.05" Teflon (bonded to Aluminum)

0.125" Aluminum

mu-metal

Brass screw & nut