

V1.1

Rotor-Housing Interaction Test

PURPOSE

- Test rotor-to-housing interaction
 - Validate gear ratio
 - Identify tolerance issues
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HOUSING

Print Quality: Great

Dimensions: 75mm x 60mm — no stationary gear

Issues: Same as V1.0

Rating: /10

ROTOR

Print Quality: Great

Dimensions: 50.8mm side length

Issues: Rotor geometry mismatched from housing geometry — needs full redesign

Rating: 3/10

MOTION TEST

Rotor Rotates: Partial

Full Orbit: Partial

Smoothness: 4/10

LESSONS LEARNED

- Rotor and housing are not the same geometry
 - Rotor needs full redesign based on housing mathematics
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CHANGES FOR NEXT VERSION

- Full redesign of rotor
 - Redesign of gearing
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