

**3D PRINTING AND DESIGN REFERENCE DOCUMENT**

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<b>Author(s):</b>	jattie
<b>Contributor(s):</b>	

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# Sandial Sandtable Design

## Gear Spacing Calculations

Let's crunch the numbers with a 1.2 mm pitch and gears of 15 teeth and 60 teeth.

### ⚙️ Step-by-step Calculation

- Pitch Diameter of Gear 1 = 15 teeth × 1.2 mm = 18 mm
- Pitch Diameter of Gear 2 = 60 teeth × 1.2 mm = 72 mm

Now for the center distance:

$$\text{Center Distance} = 1/2 \times (18 + 72) = 1/2 \times 90 = 45\text{mm}$$

□ Final Answer: Center spacing = 45 mm

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