

3D PRINTING AND DESIGN REFERENCE DOCUMENT

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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

Centre distance

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

□ Final Answer: Centre spacing = 45 mm

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