

MECHANICAL CAD DESIGN & TECHNICAL DRAWING

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Project Overview

Reverse Engineering Project: Perfume Sprayer. This demonstrates a mechanical CAD and technical drawing workflow based on an existing perfume/body-spray product. The project included physical measurement, part identification, CAD modeling, exploded/assembly views, section views, and engineering drawings.

Tools & Equipment:

- Fogg Fragrance Body Spray: reference product
- Vernier Caliper: dimensional measurement
- SolidWorks CAD: 2D & 3D modeling and technical documentation

Scope of Work:

- Reverse engineering of a perfume sprayer assembly
- Identification and documentation of individual components
- Creation of CAD models from measured dimensions
- Preparation of engineering/technical drawings
- Exploded and assembly views
- Section views for internal component understanding
- Dimensioning in millimeters and drawing-sheet documentation

Components:

- Plunger
- Pump Body
- Pump Closure
- Pump Housing
- Valve Stem
- Lid
- Dip Tube
- Body
- Spring

Technical Drawing Sample

The drawing set contains individual component drawings with dimensions, section/view references, drawing notes, scales, and A4 sheet formatting. The drawings use millimeters as the dimensional unit.







