



A small 0.250 bore X 0.250 stroke compressed air engine designed based on a CO2 model airplane engine.

This engine will be one of a group called Mini, this one is a 1 cylinder Vertical. I had been looking at some of the perfect small work of Steve Peirce and became captivated. The engine started as a project to see if I could make the small parts required. All the parts in this engine are approximately half the size of the smallest parts I had previously made. The design was started as a sketch made in an airport. The piston and connecting rod machined up perfectly, so the rest of the engine was designed around them.

The project went very fast, less than 20 hours to build it and about 8 hours to draw the plans. It is a quick build and defiantly sharpens accuracy and machining skills. Being a compressed air engine it just starts and runs with no fuss. This type of engine has a lot of fun easy possibilities for modifications and more complex designs.

David Kerzel

Pompano Beach, Florida USA

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Assembly
Mini CO2 Vertical 1

Title
Complete Engine

Date: 08/3/2003 Drawing
Revision: 1.0 Mini_V1