



Figure 1: Schematic diagram of the mechanical assembly.

The assembly consists of a vertical shaft (1) and a horizontal shaft (2). The vertical shaft is supported by bearings (3) and has a gear (4) at the top. The horizontal shaft is connected to the vertical shaft and has a gear (5) at the end. The gears (4) and (5) are in mesh. The horizontal shaft is supported by bearings (6) and is connected to a motor (7) through a coupling (8). The motor (7) is housed in a rectangular frame (9). The frame (9) is supported by a base (10). The base (10) is made of cast iron and has a weight of 10 kg. The motor (7) is a 100 W motor and has a weight of 2 kg. The gears (4) and (5) are made of steel and have a weight of 0.5 kg each. The bearings (3) and (6) are made of steel and have a weight of 0.2 kg each. The coupling (8) is made of steel and has a weight of 0.1 kg. The frame (9) is made of aluminum and has a weight of 1 kg. The base (10) is made of cast iron and has a weight of 10 kg.

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Figure 2: Photograph of the mechanical assembly.

Figure 3: Photograph of the motor and frame assembly.

Figure 4: Photograph of the base of the assembly.