



This diagram illustrates the mechanical arrangement of the components. The central shaft is supported by bearings within the housing. The gear and pulley are mounted on the shafts and are used to transmit motion and power. The housing provides structural support and protection for the internal components.

The following table provides a detailed description of the components shown in the diagram.

Component No.	Component Name	Material	Dimensions (mm)	Notes
1	Central Shaft	Steel	100 x 10	Supports the gear and pulley.
2	Gear	Steel	50 x 20	Transmits motion to the pulley.
3	Pulley	Steel	80 x 20	Transmits motion to the belt.
4	Housing	Aluminum	150 x 100 x 50	Structural support and protection.
5	Bearing 1	Steel	20 x 10 x 10	Supports the central shaft.
6	Bearing 2	Steel	20 x 10 x 10	Supports the central shaft.
7	Bearing 3	Steel	20 x 10 x 10	Supports the gear shaft.
8	Bearing 4	Steel	20 x 10 x 10	Supports the pulley shaft.

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