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ABSTRACT

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A manual sweeper pulley mechanism is a device used for manual sweeping operations that involves the use of a pulley system to rotate the brush of the sweeper. The mechanism typically consists of a handle, a belt and a pulley attached to the brush. When the wheel gets rotational motion, the driven pulley transmits the motion to the driving pulley, which in turn rotates the brush. The pulley mechanism allows for efficient and effective sweeping, as it enables the brush to reach into tight spaces and corners. Additionally, the manual operation of the sweeper makes it an ideal solution for environments where noise or emissions from powered sweepers are not suitable.

COMPONENT DESCRIPTION

4.1 Wheel and pulley

4.2 Belt

4.3 Handle

4.4 pulley & Brush Holder

4.5 Brush

DESIGN CALCULATION

1. Brush size

2. Brush rotation speed

3. Driven Pulley Diameter