

Universal Joint for Torque Transmission

Universal joints, also known as U-joints, are mechanical components used to transmit torque and rotational motion between two shafts that are not aligned on the same axis. The primary function of a universal joint is to allow power transmission through varying angles while maintaining constant or near-constant speed.



ADDITIONAL IMAGES



Product Overview

Precision Torque Transmission

Universal joints, or U-joints, are essential mechanical components engineered to facilitate the transmission of rotational motion and torque between shafts that are not aligned on the same axis. By utilizing a cross-shaped intermediate member connected to dual yokes, these components reliably manage angular misalignment in automotive drivetrains and industrial machinery. Regular maintenance and proper lubrication are critical to ensuring the longevity and consistent performance of these high-stress components.

Technical Features

Operational Capabilities

- Torque transmission at varying angles
- Angular movement in multiple planes
- Maintains near-constant speed
- Retaining clips for secure assembly

Material Composition

Durable Steel, High-Strength Alloy

Applications

Common Industry Applications

Automotive Drivetrains • Industrial Machinery • Rotational Power Systems