

# Crankshaft

A crankshaft is a mechanical part that converts rotational and reciprocating motion. In a reciprocating engine, it translates the reciprocating motion of the piston into rotational motion.



## Product Overview

### Precision Crankshaft Engineering

This crankshaft serves as a critical mechanical component designed for the conversion between rotational and reciprocating motion. In reciprocating engines, it efficiently translates the motion of the piston into rotational energy, while in compressors, it reverses the process to drive reciprocating action. Built with precision-engineered crank throws and main bearing surfaces, it ensures reliable power transmission and synchronized mechanical operation.

## Technical Details

### Key Components

- Crank throws
- Crankpins
- Main bearings
- Connecting rod interfaces

### Motion Conversion

Reciprocating to Rotational, Rotational to Reciprocating

### Design Feature

Axis offset from main bearings to facilitate motion conversion