

Crankshaft function

In submerged arc welding, it is a process in which continuously fed electrodes, and a ...

Crankshaft: Parts, Types, Function, Uses, and More [PDF] ... Parts, Function, ...

The piston is driven by the crankshaft to transfer the high-pressure gases into the ...

The casting process is the oldest and most popular method of manufacturing means ...

The crankshaft of engines, axles of automobiles, etc. Checkout: Different ...

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A crank mechanism drives the crankshaft, which is a rotating shaft. It is a mechanical device that converts the piston's linear movement into a rotating motion. A crankshaft is a key component of an engine's power transfer system. Located within the engine crankshaft block, it uses a connecting rod to transform the piston's reciprocating motion into a rotational one.

In this reading, we'll learn what a crankshaft is, its function, diagram, components, and how it works.

Let's get started!

A crankshaft is a rotating shaft that converts the reciprocating motion of a piston into a rotational motion. It's commonly used in internal combustion engines to perform such operations. Crankshafts consist of a series of cranks and crankpins to which the connecting rods are attached. A crankshaft with at least one shaft rotates within the engine block. It rotates using the main bearings. The crankpins rotate within the connecting rods using rod bearings.

The function of crankshafts is to give a smoother drive to the vast motors with multi-cylinders. The linear motion of the pistons is changed into a rotational motion. In the combustion of the fuel-air mixture, power is produced. This power is transformed into the rotary movement of the crankshaft.

The linear motion of the pistons is converted via the connecting rod into torque. It's then passed to the flywheel. The crankshaft's shaft is bored with some holes that feed the motor with oil. This oil smooths the movement.

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