Camshaft

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Function

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Camshafts are made from the following materials:

- Grey cast iron
- Ductile cast iron
- Heat-treated steel
- Nitrided steel

They can be of hollow design to save weight. Their bearings and the cam tracks are usually surface-hardened. Camshafts are available separately or as a kit. In addition to the camshaft, kits include the corresponding bucket tappets, rockers or rocker arms.

Camshafts in engine block and overhead camshafts

A general distinction is made between camshafts in the engine block and overhead camshafts.

Overhead valves

With overhead valves, the camshaft is located in the engine block and acts on the valves by way of pushrods and rocker arms. This type of valve operation is however only suitable for low-speed engines on account of the numerous mechanical components which have to be moved by the valve spring on closing.

Overhead camshaft and double overhead camshaft

High-speed engines usually have one (OHC) or two (DOHC) overhead camshaft(s) in the cylinder head. They operate the valves by means of rockers, rocker arms or directly by bucket tappets.

Depreciation

To avoid damage caused by worn sliding mating parts, these should always be replaced together with a camshaft.

Bilder



Hersteller

CORTECO_EN

Kolbenschmidt_EN

Febi_EN

HELLA

Quelle:
http://www.my-cardictionary.comhttps://www.my-cardictionary.com/cardictionary/products/camshaft.html