



DIESEL DOHC COMMON RAIL ENGINE 1/2 CUTAWAY

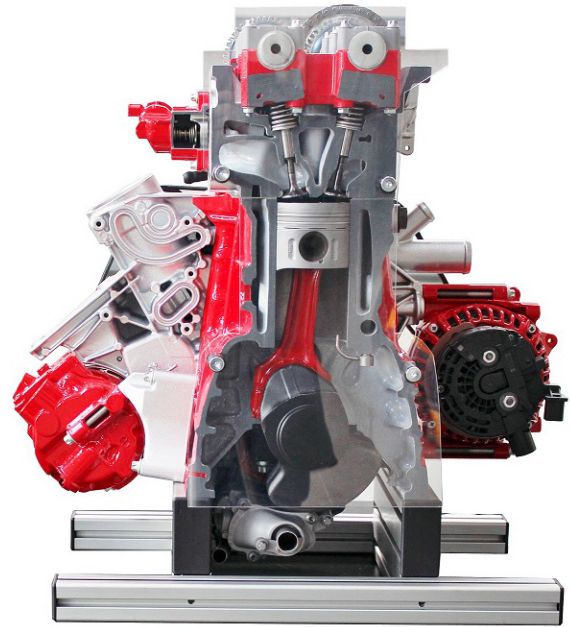
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Product number

IVDD01-CR02

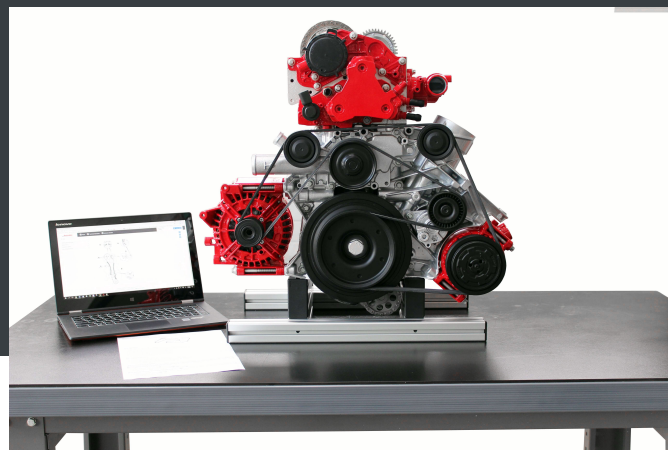


Cutaway diesel engine with DOHC system and Common Rail injection system, visible and accessible components such as the engine block, crankshaft, DOHC dual overhead camshaft, timing chain, and alternator belt. It allows for practical demonstrations of timing chain and auxiliary drive belt replacement, with emphasis on the technical specifications and functionality of each component.



Features

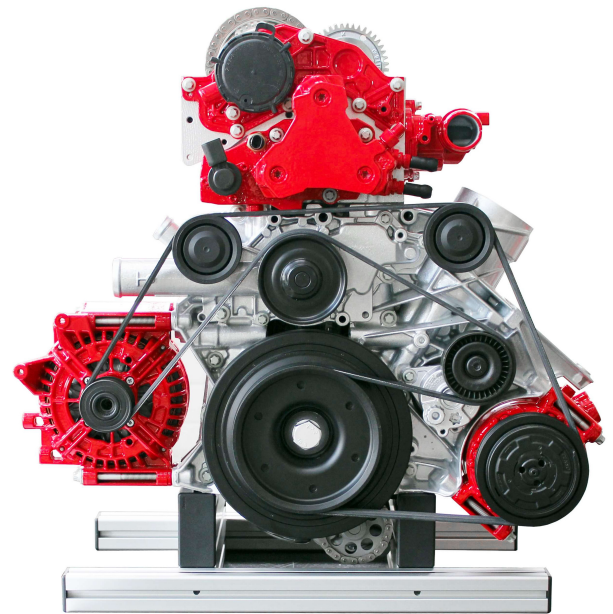
- Includes engine block, engine head, crankshaft, connecting rod, DOHC dual overhead camshaft, pistons with rings, timing chain with camshaft sprocket, alternator belt with tensioner, air conditioning compressor, and high-pressure CR pump.
- Demonstrates piston, rings, combustion chamber, intake and exhaust ports, DOHC components, injector, and glow plug holes. Allows operation of the DOHC mechanism by turning the crankshaft, with a focus on safe, controlled interaction.
- Features all original timing chain, tensioners, and alternator belt components for demonstrating replacement procedures, including torque moments using specialized tools.
- Equipped with safety plastic protection to shield students from moving parts during demonstrations.





Value for Students

- Gain technical expertise in the operation of Diesel dual overhead cam DOHC Common Rail engines through direct interaction with a fully detailed cutaway model.
- Learn the intricacies of engine components, including the piston rings, combustion chamber, intake and exhaust ports, and DOHC mechanism, through real-time visualization.
- Develop practical skills in timing chain and alternator belt replacement, using original components such as tensioners, sprockets, and the crankshaft, with the ability to simulate torque moments using specialized tools.
- Understand the operation of the DOHC mechanism by manually turning the crankshaft, offering a tangible experience of the engine's functional dynamics.
- Enhance safety knowledge by engaging with a model equipped with safety protection, ensuring a secure learning environment while performing various mechanical procedures.



Value for Instructors

- Hands-on, practical learning experience with a robust cutaway engine model, fostering a deep understanding of Diesel DOHC Common Rail engine functions.
- OEM engine components to demonstrate timing chain and auxiliary drive belt replacement, ensuring students gain practical and applicable skills.
- Simplify complex engine concepts with a clear and detailed cutaway design, allowing for straightforward demonstration of internal engine mechanisms.
- Ensure minimal classroom space usage with a compact design that can be easily stored or mounted on workbenches or tool trolleys for convenient, versatile training sessions.
- The model's manageable weight and size facilitate easy handling and mobility, allowing instructors to integrate the engine into various teaching environments without the need for heavy lifting or special mounting equipment.

Specifications

- Dimensions: 600 x 500 x 300 mm (23.62 in x 19.69 in x 11.81 in)
- Weight: approx. 75 kg (165 lb)
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