



DSG AUTOMATIC TRANSMISSION EDUCATIONAL TRAINING STAND



A2

Product number

MSATDSG01



The DSG Dual-Clutch Gearbox Educational Trainer provides an advanced tool for comprehensive study and training on direct shift gearboxes (DSG). This highly detailed and fully functional training model is designed to offer students and instructors a hands-on experience in understanding the construction, operation, settings, and adjustments of DSG systems.



Features

- Fully functional DSG gearbox based on a dual-clutch system with six forward gears and one reverse gear, including standard "D" and sporty "S" drive modes.
- Mechatronics module directly mounted to the gearbox, facilitating real-time control and gear shifting simulations.
- OBD II diagnostic connector allows for fault code management, ECU identification, and live data monitoring.
- Includes a STOP button and fuse block for immediate shutdown and safety during operation.
- Electrohydraulic control system demonstrates the control of multi-disc clutches and gear shifting through an advanced electronic-hydraulic system.
- Equipped with a manometer, dashboard, clutch control diagram, and gear selector, providing a comprehensive learning tool for students.





Value for instructors

- Use the model to clearly demonstrate the construction, functionality, and troubleshooting of DSG systems.
- The trainer uses OEM components for easy, safe, and realistic training that mimics real vehicles.
- The model features real DSG components, offering students a practical and realistic learning experience. The visible clutch control mechatronics and electric diagrams enhance the teaching process.
- Easily reset and prepare the trainer for each session with minimal adjustments, ensuring smooth transitions between lessons. The robust construction and mobility of the training stand allow for convenient use in various classroom settings.
- The integrated emergency stop system and protective features ensure a safe learning environment, enabling instructors to focus on teaching while minimizing risks.



Value for students

- Engage with a fully operational DSG gearbox, allowing for an in-depth exploration of its principles, including the unique dual-clutch mechanism that combines the benefits of both manual and automatic transmissions.
- Learn to operate the DSG gearbox, including gear shifting controlled by an electronic-hydraulic system. Gain practical experience in diagnosing and troubleshooting using the OBD II diagnostic connector, monitoring real-time data, and managing fault codes.
- Study the electrohydraulic system components and their roles in managing oil pressure and gear shifting, essential for real-world applications.
- Explore the mechanical and electronic systems, including clutch control mechatronics, automatic gearbox operations, and the interaction of various sensors like G182, G501, and G502, providing a solid foundation for advanced automotive engineering.



Specifications

- Dimensions: 800 x 800 x 1650 mm (31.50in×31.50in×64.96in)
- Weight: approx. 150 kg (330 lb)
- Power supply: 12V contacts available
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