



SECTIONED FRONT SUSPENSION UNIT EDUCATIONAL TRAINER

A4

Product number
AE411210M

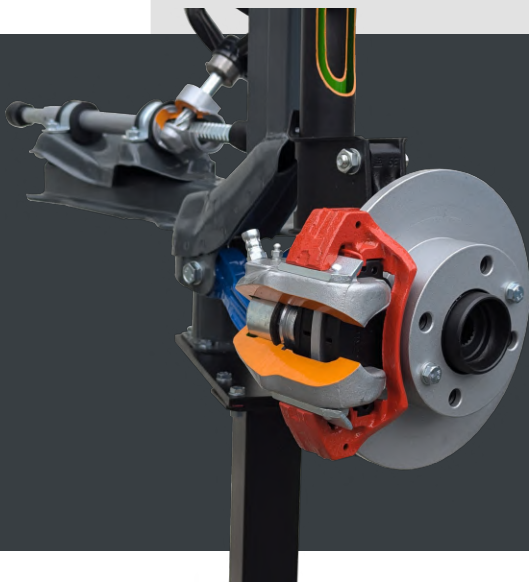


High-precision training tool featuring a McPherson strut-type suspension system, integrated with a rack and pinion steering box, shock absorber, coil spring, and disc brake assembly. Mounted on a mobile stand, this trainer is crafted from high-strength steel and is specifically designed for technical and vocational automotive education, providing clear visibility and detailed study of essential suspension and steering components.



Features

- **McPherson Strut Type Suspension:** A commonly used front suspension system in modern vehicles, featuring integrated coil spring and shock absorber.
- **Rack and Pinion Steering Box:** Provides precise steering control, demonstrating the mechanics of modern steering systems.
- **Sectioned Components:** Includes a shock absorber, spring, disc brake, and steering wheel, all sectioned for clear visibility and detailed study.
- **Mobile Stand:** The entire unit is mounted on a robust stand with wheels, allowing easy movement and positioning within the classroom or workshop.
- **Educational Focus:** Designed specifically for technical and vocational training, emphasizing hands-on learning and real-world application.





Value for Students

- Fully functional McPherson strut-type suspension system, widely used in modern vehicles, enhancing understanding of its structural and operational characteristics.
- Study the interaction between steering and suspension systems, including the rack and pinion steering mechanism, to understand how vehicle handling and safety are maintained.
- Perform in-depth analysis of suspension components such as shock absorbers, springs, and control arms, learning how they work together to absorb road shocks and provide vehicle stability.
- Observe and understand the operation of the disc brake system integrated into the suspension unit, offering insights into braking dynamics and maintenance procedures.
- Utilize this trainer to conduct practical exercises on suspension alignment, wheel balancing, and component inspection, preparing for real-world automotive repair and maintenance tasks.

Value for Instructors

- Facilitate detailed demonstrations of front suspension and steering systems, enabling students to visualize and comprehend the mechanical and functional aspects of these critical automotive systems.
- Enhance the teaching experience with a mobile and durable unit that is easily integrated into various classroom settings, supporting both individual and group learning activities.
- Utilize the sectioned components to clearly illustrate the internal workings of suspension and steering systems, aiding in the explanation of complex concepts such as load distribution, shock absorption, and steering geometry.
- Provide students with realistic training scenarios that mirror actual automotive repair and maintenance environments, using a trainer that replicates real-world suspension and steering setups.
- Simplify lesson preparation and execution with a well-organized, sectioned trainer that requires minimal setup and maintenance, allowing more time for instructional activities.
- Mounted on a robust stand with wheels, this trainer is easily movable within the classroom, making it accessible for demonstrations and group learning sessions.
- Plug and play design, requiring no additional mountings, assembly, or special preparation for operation.

Specifications

- Dimensions: 900 x 600 x 1500 mm (35.43 in x 23.62 in x 59.06 in)
- Weight: approx. 120 kg (265 lb)
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