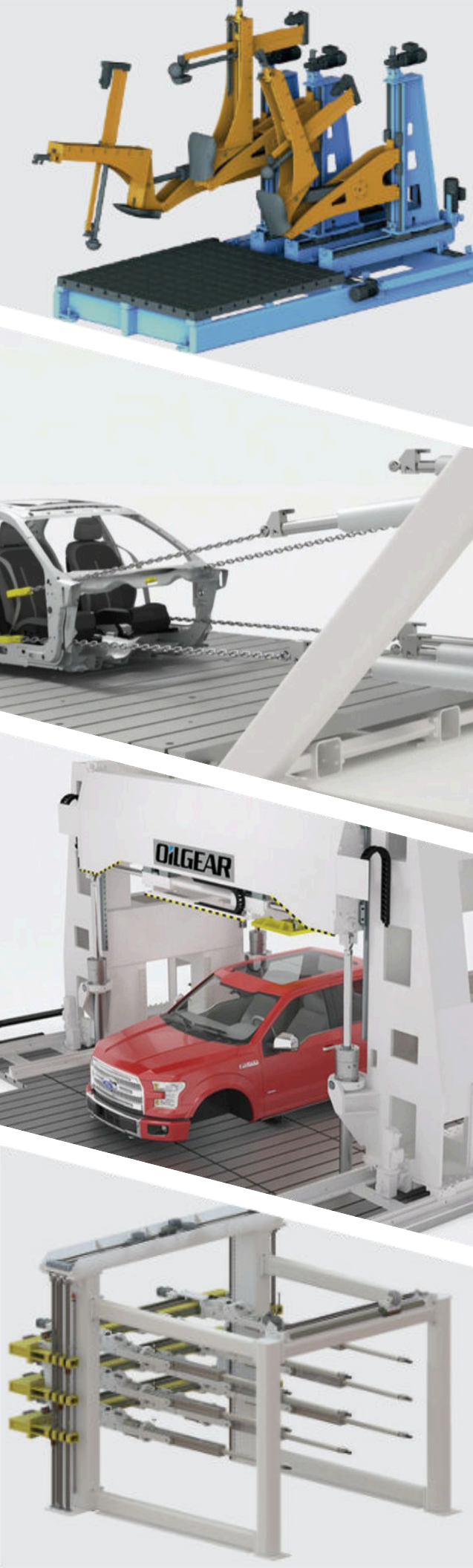


The Oilgear logo features the word "OILGEAR" in a bold, black, sans-serif font. A small trademark symbol (TM) is located at the end of the word. A blue diagonal line is positioned between the "I" and "L" in "OILGEAR".

OILGEAR™

A collage of four images showing different automotive test systems. The top image shows a yellow and blue mechanical test rig. The second image shows a car chassis on a test platform. The third image shows a red pickup truck in a large test cell with a white frame. The bottom image shows a white mechanical test rig with yellow components.

AUTOMOTIVE TEST SYSTEMS FOR PASSIVE SAFETY

Setting New Benchmarks in
Automotive Safety Testing —
Engineered for Precision,
Reliability, and Efficiency. Trusted
by Leading OEMs and Test Labs
Worldwide.

System Overview and Key Features

Comprehensive Testing Applications



Seat & Headrest

- Seat Back Torque: Up to 5 kNm
- Seat Back Angle: 75°
- Headrest Force: 2 kN
- Height Retention: 600 kN
- Slim design for test of small rear seat assemblies
- Automatic head position adjustment
- Automated test procedure & test report



Seat Belt Anchorage

- Actuators: 3 - 12
- Force: 44 kN/cyl
- Velocity: 0.5 m/s
- Stroke: 1,000 mm
- Smart actuator installation: no attachment from top needed
- Best in class clearance
- Low noise emission



3-in-1 Seat & Interior Test System

- Static load seat back: 5 kNm@75°
- Static load headrest: 1 kN
- Linear impact speed: up to 30 km/h
- Pendulum/linear impact mass: 6.8 kg
- Seat static load, pendulum and linear impact
- Static and dynamic test
- Combined into one space and cost saving application



Dynamic Linear Testing Systems

- Force: 40 kN
- Velocity: 2 m/s
- Stroke: 100 mm
- Testing of seat adjustment components
- Reproducing drop tower and FEA curves
- Bridging the gap between sled/crash testing and quasi static testing

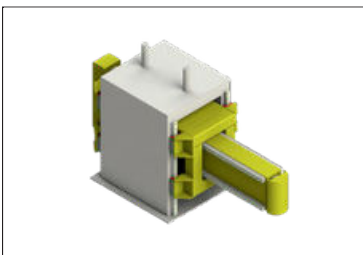
Advanced Safety Test Solutions

Versatile and Customizable Test Platforms



Roof Crush

- Angle around X: -25° to +25°
- Angle around Y: -8° to +8°
- Force: 250 kN
- Stroke: 500 mm
- Unprecedented rigidity
- Laser supported positioning



Side Intrusion

- Force: 300 kN
- Lateral Force: Max. 100 kN
- Stroke: 1,000 mm
- Designed for use on BEVs
- Adjustable length of loading device
- Motorized adjustment in Z

FURTHER TESTING APPLICATIONS

- | | |
|--|---|
| <ul style="list-style-type: none"> • Pedestrian Protection • Free Motion Head • Ejection Mitigation | <ul style="list-style-type: none"> • Linear Impact & Body Block • Gravity Pendulum • Multi-Purpose Push/Pull |
|--|---|

AFTERMARKET SERVICES

Upgrades & Modernization

- Retrofit legacy stands with digital controllers, motorized positioning, and automated data acquisition.
- Add new modules or sensors to meet evolving automotive standards.

Calibration Services

- On-site calibration of pressure, flow, and force sensors to international standards.
- Scheduled plans minimize disruption to testing.

Preventative Maintenance

- Routine health checks and software updates to maximize uptime.
- Proactive replacement of wear parts using usage analytics.

Repairs: Hydraulic & Electrical

- Fast diagnostics and repairs for hydraulic circuits, actuators, and pumps.
- Troubleshooting and replacement of drives, PLCs, and control modules.

Training & Consulting

- Staff training on automation, test procedures, and safety.
- Consulting to optimize test cycles, data management, and compliance.

Oilgear is a global leader in hydraulic and test system engineering, renowned for decades of innovation and quality across the automotive industry. With specialized engineering centers in Hattersheim, Germany, Oilgear serves customers throughout Europe, the Americas, and Asia, delivering advanced solutions for passive safety testing, including seat, belt, pendulum, and intrusion systems. Supported by a network of regional offices Oilgear provides elite technical support, aftermarket services, and training to help manufacturers and laboratories optimize safety and productivity in their automotive testing operations.

Looking for more information? Please contact our competence center for Automotive Test Systems:

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