LeakCheck
VR Simulator

VR Wet LeakCheck:

IMMERSIVE ALLOY WHEEL TEST SIMULATOR

Driving Safety through Precision and Virtual Excellence in Automotive Testing

ABOUT
COMPANY

VR Wet LeakCheck simulator as an innovative tool for quality control in alloy wheel manufacturing. By integrating immersive VR technology, this simulator empowers operators to perform accurate, risk-free wet leak testing, enhancing the reliability of alloy wheels and ensuring high standards of quality before production with accuracy and safety.

Our VR Wet LeakCheck Solution simulates 200% accuracy & zero the risk in leak detection.

KEY FEATURES OF
VR WET LEAKCHECK

"Experience Realism in Every Test from Micro to Macro."

> **Water Application and Pressure Simulation:** Replicates real conditions to ensure realistic wet leak testing.

> **Intricate Alloy Wheel Models:** Detailed 3D models provide perfect testing without physical setups.

> **Risk-Free Environment:** Allows/Tests identification of weak points under high-stress demanding conditions.

Digital Twin for Wet Test Machine:

- A digital replica of the wet test machine captures operational data in real-time, allowing users to monitor, analyze, and remotely control the process.

- Helps in predictive maintenance and optimization without interrupting actual production.

Step-by-Step Leakage Testing Process:

- **Operators:** Execute tests per SOP, catching and resolving any issues.

- **Supervisors:** Monitor & Troubleshoot processes, ensure compliance & approve results.

- **Quality Assurance:** Document and verify test outcomes to meet quality benchmarks.

Rejection and Acceptance Criteria:

- **Visible Leakage:** Identifies water or air bubble leaks.

- **Structural Integrity:** Screens for cracks, faulty seals, or defects ensuring real-world performance.

- **Acceptance Standard:** Only components that meet strict standards proceed to production.

Certification & Proficiency Evaluation:

- Structured assessment module to measure and certify user proficiency.

- Users receive feedback on strengths and areas for improvement.

- Certification awarded for meeting required standards.

SPECIFICATIONS FOR
VR WET LEAKCHECK

"Built for Performance, Designed for Perfect Leak Detection."

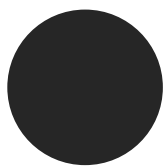| SPECIFICATION	DETAILS
VR Headset	Compatible with leading VR platforms (e.g., Meta Quest, HTC Vive, or similar), 6-DoF support for immersive, realistic movements.
Controllers	Motion-sensitive controllers for interaction with virtual tools and inspection processes.
Processor	Intel i7 or AMD Ryzen 7 (or higher) for quick processing of simulation environments.
GPU	NVIDIA RTX 3060 or AMD Radeon RX 6700 XT (or higher) for high-quality, smooth VR visuals.
RAM	Minimum of 16GB to handle complex simulation scenarios.
Storage	SSD with at least 512GB capacity for fast load times.
Connectivity	USB and HDMI/DisplayPort compatibility for VR setup.
Motion Sensors	Advanced tracking sensors for accurate, immersive movement.
Environmental Sensors	Calibrated for precise water and pressure simulations, adding realism to the leak testing process.

CUSTOMER SUCCESS STORY:

VR WET LEAKCHECK AT MINDA KOSEI

"We are driving excellence with every alloy wheel test."

Through Yepper's VR-powered simulations, Minda Kosei's team masters leak detection and inspection processes without the hassles or risks of traditional methods. We give them a virtual transformation by increasing testing accuracy and reducing physical setup requirements.

Our VR Wet LeakCheck created a dojo-style training center for Minda that promoted hands-on learning, real-time feedback, and improved competency at every team level.

DOJO TRAINING:
REVOLUTIONIZING ALLOY WHEEL TESTING SKILLS

"A Virtual Training Ground for Real-World Precision and Tomorrow's Excellence"

Our VR-based DOJO setup provides an immersive training arena where operators gain hands-on experience in alloy wheel testing. Our innovative setup ensures higher competence and quality in alloy wheel manufacturing.

DOJO 2.0

DOJO 2.0 offers the next generation of immersive learning for those ready to elevate their training programs. Together, DOJO Setup and DOJO 2.0 transform training standards for alloy wheel manufacturing.

YEPPAR X.O:

THE FUTURE OF LEARNING & TRAINING MANAGEMENT

Yeppar X.O is an AI-powered platform that revolutionizes every aspect of the training journey. From scheduling to skill tracking, Yeppar X.O provides a seamless experience that enhances productivity and insight for organizations. Key features include:

- ● Training Session Playback for reviewing and refining skills

- ● AI-Driven Skill Assessments for accurate performance insights

- ● Skill Matrix Integration to track and manage competencies

- ● Global Skilling Profile Generation to capture progress and development

- ● Automated Certification and Renewal for streamlined qualification upkeep

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CONTACT
& SUPPORT :)

"We're Here to Support Your Success—Get in Touch!"

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