Coupling Device Test Unit

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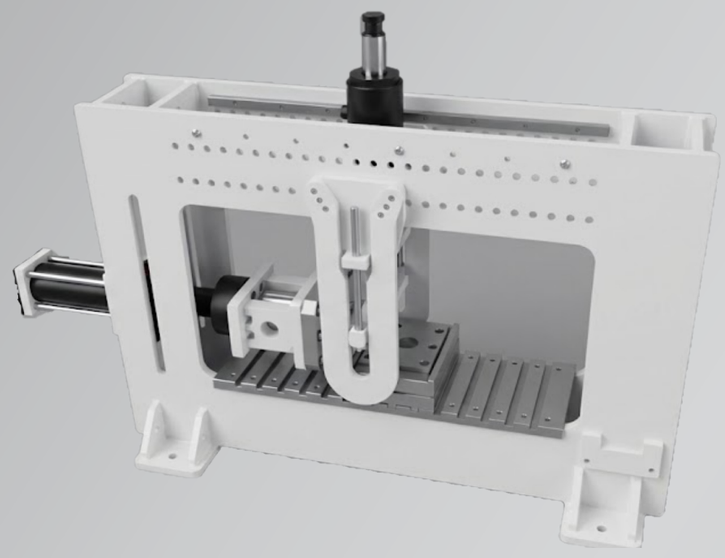
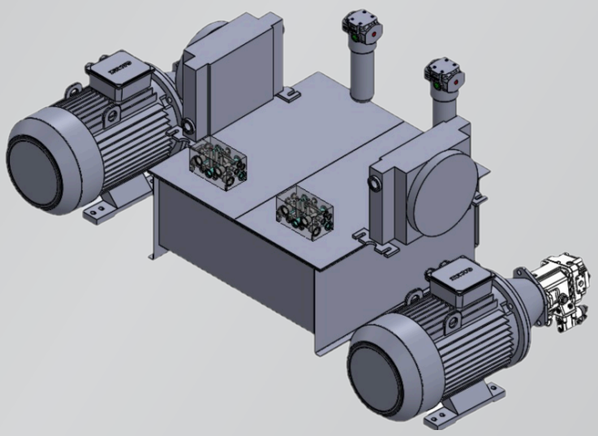
Dynamic Coupling Component Test System



UN ECE R55 Compliant Dynamic Fatigue & Strength Testing

UN ECE R55 Mechanical Coupling Validation:
Specifically designed to perform the mandatory dynamic fatigue tests for coupling balls, towing brackets, and drawbeams.

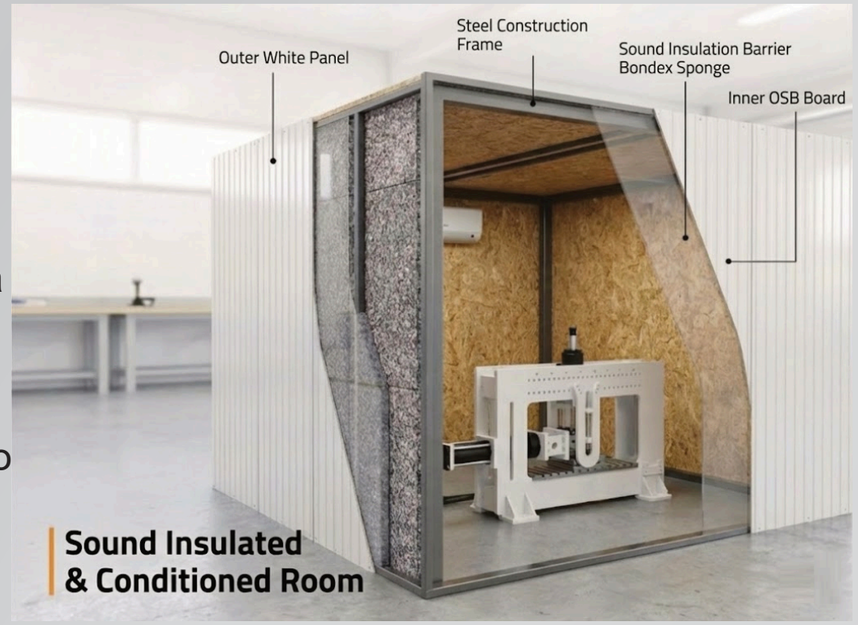
- **Multi-Axis Force Application:**
  Capability to apply high-capacity forces



- **High-Frequency Performance:**
  Achieves 3-5 Hz for standard dynamic tests, with the ability to reach 5-10 Hz at lower force levels for accelerated fatigue analysis.
- For specialized applications requiring higher frequencies, we offer custom design capabilities up to 35 Hz.

Integrated Test Environment

Soundproof & Conditioned Environment:
The system can be integrated into a specialized sound-insulated and thermally conditioned room to maintain lab safety and result stability.



- **Servo-Proportional Hydraulic Precision:**
  High-response servo-proportional valves ensure millisecond-level reaction times and precise force control.
- **Industrial PC-Based Architecture:**
  Driven by a powerful industrial PC for high-speed data acquisition and real-time closed-loop control.
- **Fully Customizable Design:**
  Force, speed, and mechanical stroke parameters can be tailored; the modular structural design allows for project-specific modifications.