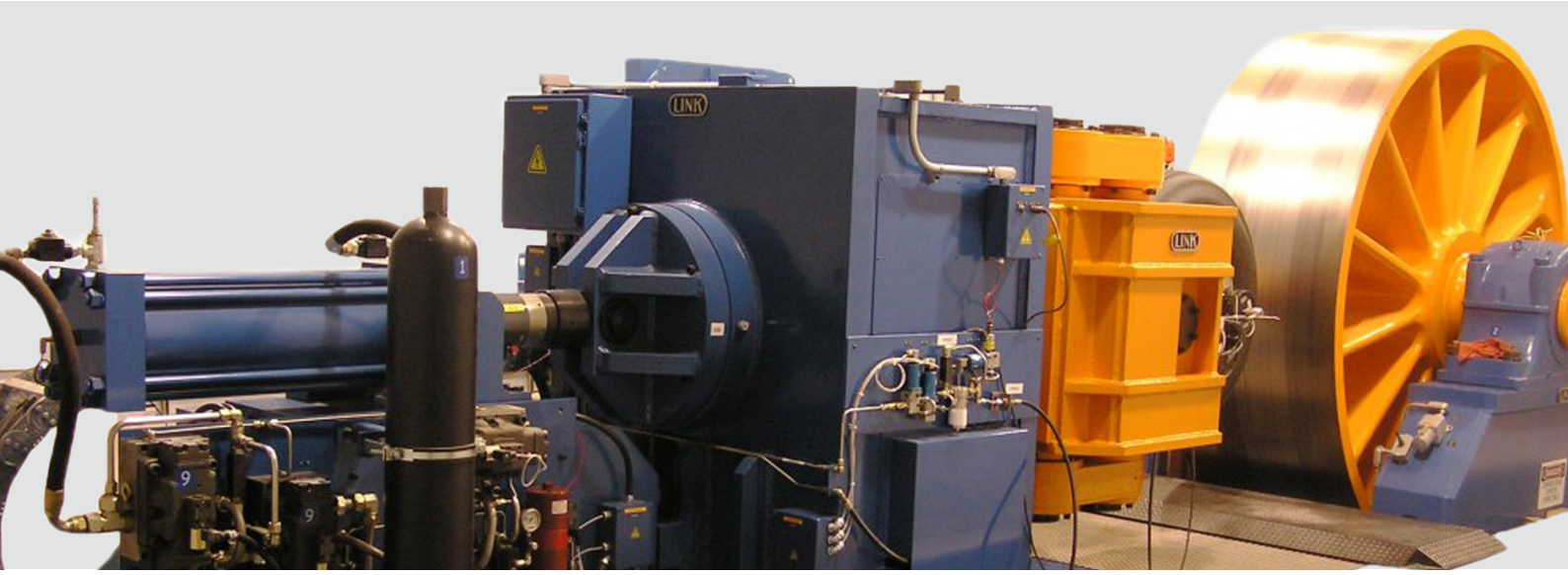
Model 8700

Aircraft Roll Dynamometer



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Key Benefits

- Determine load limits of wheel design from strain gage analysis
- Test spectrum for wheel qualification through endurance testing
- Safety and redundant components to protect the roll dynamometer

Key Features

- Closed loop control system
- Increased radial load capacity
- Improved side load range
- Hardened roll surface

Product Overview

The LINK Roll Dynamometer is utilized for laboratory testing of aircraft wheels for measuring the performance of wheel designs. The roll machine is capable to perform controlled load applications to reproduce radial forces acting upon the wheel per endurance test requirements and standards. Yaw and camber angles are able to be adjusted to induce side load.

The roll is hardened to allow for conducting Roll-on Rim testing. Radial load is applied and controlled by means of a servo valve, hydraulic cylinder and hydraulic power unit. Tire pressure is controlled remotely through a rotary coupling for automatic inflation and deflation.

Capabilities

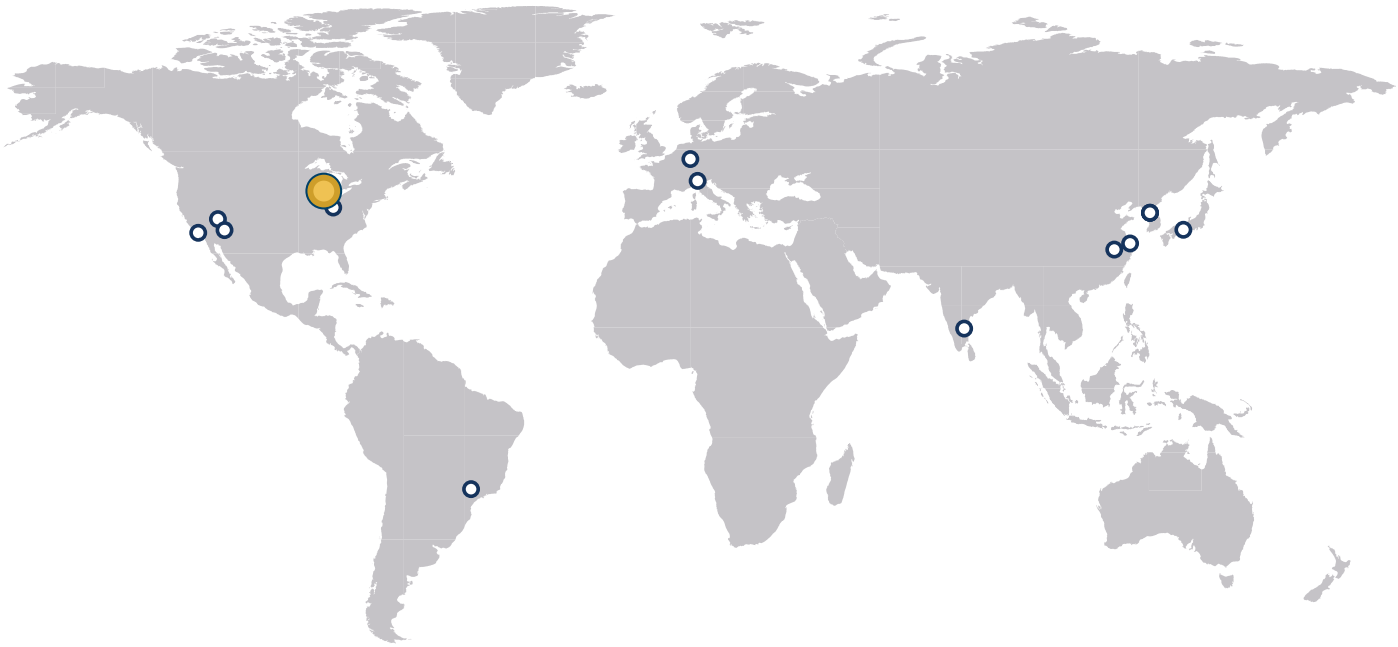
- Automated testing within a controlled laboratory environment
- Side load evaluation through yaw angle control
- Hardened roll surface for roll on rim testing capability

Options

- Camber System: Angle ± 20°
- Additional Test Station: 2nd Test Carriage

Specifications

Control System	ProLINK
Maximum Radial Load	175,000 lbs
Maximum Side Load	60,000 lbs
Motor Size	650 HP
Maximum Speed	25 mph
Roll Diameter	120”
Yaw Angle	± 25°



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