Spin Rig ● ● ●

Rotating Machinery Simulation

HGL Dynamics

Measure │ Simulate │ Train

Key Features

- Portable yet robust desktop solution

- Multi-channel signal outputs

- Manual & automatic shaft speed control

- Fully adjustable flywheel & bearing locations

- Multiple bearing types supported

- Equipped with proximeter probes & tachometer

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Introduction

The HGL Dynamics Spin Rig solves the logistical and safety problems associated with simulating and learning about vibration phenomena on full scale installations. This bench top system is capable of accurately simulating rotating machinery, and provides the perfect platform for training users in the process of measuring and analysing vibration data.

The Spin Rig combines precisely manufactured components, user configurable parts, highly accurate industry standard probes and intuitive controls. All of these features are provided in a portable and robust chassis, designed to maximise safety whilst ensuring user accessibility is not compromised.

Measure
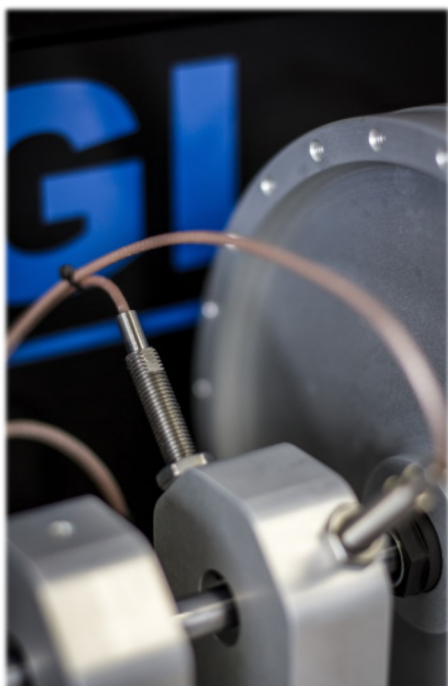
Tachometer & Proximeter Probes

The HGL Spin Rig is supplied, as standard, with a single, once per revolution, tachometer probe mounted at the motor, plus two pairs of proximity probes mounted on the configurable pedestals.

Accelerometer Mounting Fixtures

Industry standard fixing holes are provided on the bearing pedestals to allow for the fitting of most accelerometer types.

Probe Outputs

The four proximeter probes, tachometer and three optional accelerometers can be connected to external data acquisition equipment using the BNC connections at the rear.

Data Acquisition

The HGL Dragonfly Acquisition Module* combined with HGL Hawkeye* software is the perfect choice for use with the Spin Rig. The Spin Rig is also compatible with many third party data acquisition systems.

Data Analysis

HGL's Aurora* software is an ideal analysis tool for data acquired using HGL's data acquisition systems.

Trim Balancing

HGL's Trim Balancing Pro software* enables users of any experience to successfully carry out trim balancing operations on a wide variety of machinery types. The Spin Rig is the ideal partner for Trim Balance Pro
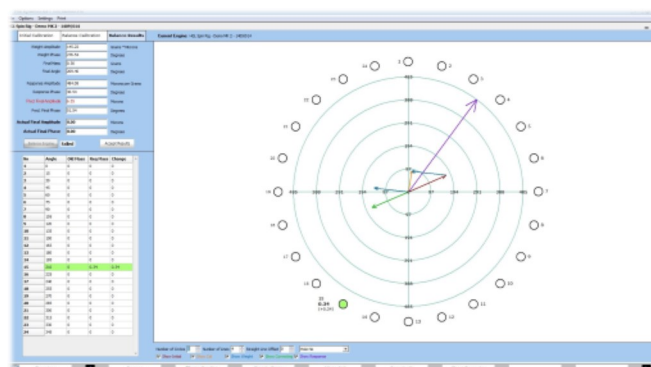
Optional extras to the Spin Rig / Refer to HGL Flyers for further information

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Simulate

Configurable Flywheels & Bearing Pedestals

Simulate countless scenarios and applications using the pedestals and flywheels *(two supplied)* configured in a variety of different arrangements.

Imbalance Simulations

A large number of imbalance arrangements can be simulated using the provided set weights to balance or unbalance the two flywheels.

Shaft Misalignment

Simulate a variety of shaft misalignment situations using the two independently height adjustable bearing pedestals.*

Automatic & Manual Motor Control

Shaft speed and ramp rate can be controlled in both automatic and manual modes using the programmable multifunction controller unit.
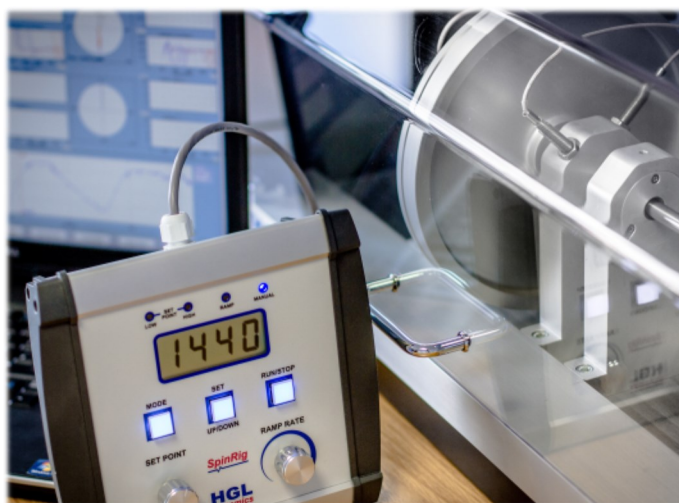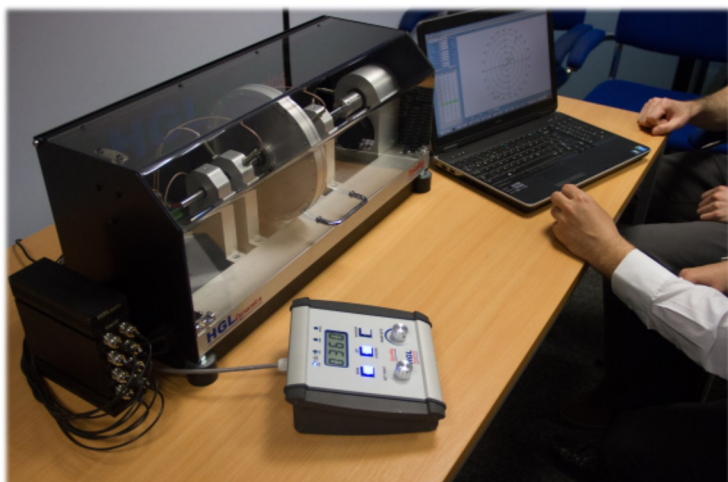
* Additional pedestals can be supplied as optional extras to the Spin Rig

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Train

Using the Spin Rig as a Training Tool

The Spin Rig is an extremely useful tool for demonstrating vibration phenomena and training staff in vibration monitoring and analysis techniques. It is also a great platform for providing users with experience in trim balancing operations.

HGL Spin Rig Workshops

HGL Dynamics is able to provide staff experienced in vibration monitoring and with expert familiarity of the HGL hardware and software tools.

HGL Dynamics offers training workshops in configuring the Spin Rig for various applications, fitting accelerometers, acquiring measurements and analysing results.

Workshops can be provided either at one of our global offices, or at most customers' facilities. Please contact one of our offices for further information.

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Specification

Electrical

Operating Voltage:	110 - 240 V AC
Power Consumption:	115 W (Max)

Dimensions (H x W x D)

Spin Rig:	280 x 710 x 310 mm
Controller:	70 x 195 x 185 mm

Weight:

Spin Rig:	23.20 kg (45.8 lbs)
Controller:	0.85 kg (1.8 lbs)

Outputs

Tachometer:	1 x BNC (7.874 mV/µ)
Proximity Sensors:	4 x BNC (7.874 mV/µ)
Accelerometer Sensors:	3 x BNC

(accelerometer optionally fitted)

Speed

Motor:	0 - 7000 rpm
Shaft:	0 - 4850 rpm

Information

About HGL Dynamics

HGL Dynamics is a world-leading supplier of data acquisition, monitoring, analysis and archiving systems and services for the rotating machinery industry

Purchasing & Availability

The HGL Dynamics Spin Rig is now available for purchase or lease. Please contact one of our HGL Dynamics offices below for further information or to request a quote:

UK & International

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