EZSLAM2

A technology that measures all static and dynamic characteristics of a door.



Introduction

EZ Slam is the world's first dedicated closure measurement system. The EZ Slam innovative design measures and stores door closing data for the complete closing event. EZ Slam integrates precise algorithms and scientific methods into a simple, comprehensive tool for closure measurement. The EZ Slam translates subjective impressions into objective numbers. EZ Slam is easy to use and can be operated by non-metrology technicians. Once data is acquired the EZ Slam generates results that can be shared throughout an organization. This assists in comparing designs, facilitates quality monitoring, and accelerates the design analysis process.

Applications

Designers use it to compare different concepts or different designs.
Developers can investigate dependencies between components and optimize tolerances bands.
Manufacturing Engineers use it as a simple tool to monitor quality and troubleshoot issues.
Quality Inspectors use it to quantify customer concerns and chart impressions.
Specialty Builders use it to evaluate or upgrade the fleet to high standards.

Concept

The concept of EZ Slam is making it possible to measure accurately all key metrics of a door in a quick and simple operation.

Easy to use
Compact to transport
Reduced testing time
Increased accuracy
All-in-one measurement
Low maintenance
Wireless operation













Metrics

Many different metrics can be identified using the EZ Slam

Typical Over slam
Striker Alignment
Latch Point
Minimum Closing speed
Initial speed
Speed Curve
Closing force
Minimum Input Pulse energy
Gravity Input
Kinetic closing energy
Door check force
Static Latch energy
Swing Radius
Door Rise
Door Check Linearity
Door Check Slope
Inertia
Hinge tip
Cabin pressure peak
Pressure rise time
Pressure drop time
Temperature

Combined Integrated Model

C.I.M. is the method of combining information from several tests into one database or model and determine key characteristics that otherwise can only be estimated by time consuming iterative testing. Because many metrics are interdependent, the EZ Slam can determine the correlation between these different metrics and broadcast the relationship as a characteristic, or predict critical intersections points.

Minimum closing speed
Minimum closing speed curve
Minimum Pulse
Typical Cabin pressure peak



Software

PC based control software manages all data acquired with one or more EZ Slam devices.

Simple user interface
One page result overview
Statistical view
Automatic reporting
Database
Energy pie chart
Tolerances
Export data
Language & unit selection

