



CUSTOM CLEVIS PIN DESIGNS

The internally gaged Clevis Pin (invented by Straininsert, U.S. Patent No. 3,695,096) is designed to measure forces transmitted/supported through pin joints. The force sensing pins allow direct, accurate, and repeatable measurements with pins from 1/4" diameter to over 10" diameter, in almost every type of pin joint. Although Straininsert offers Clevis Pin designs which exists for common applications, it is not always possible or economical for a customer to modify existing equipment or clevis arrangement. Therefore, Straininsert also designs and manufactures many custom pins tailored for unique applications and installations. Straininsert's designs combine over 40 years of design experience along with an automated manufacturing process to provide reliable, cost effective and fully configured transducer systems. Furthermore, Straininsert can offer tremendous design flexibility to accommodate both low/high measurement load for a given pin diameter, custom loading geometries, different materials, high factors of safety, special finishes, fatigue designs, high pressure applications or other special requirements. The Straininsert approach to custom designs starts with a one-on-one dialogue between our designers and the customer to ensure that the optimal design is achieved. Straininsert quickly and efficiently develops a customer drawing which is provided to the customer for approval prior to manufacturing. This approach provides the customer with added assurance that the clevis pin is designed to specification.

Straininsert's confidence in custom pin designs is reflected in our ability to provide a two year warranty on all custom designs as well as providing technical support as required.

STRAININSERT force sensing clevis pins are typically designed to measure from 50 to well over 1 million pounds. A few typical applications include:

- Structural Tests
- Rocket Reaction Forces
- Mooring Lines
- Winch/Crane/Lifting Systems
- Aircraft Wing Joints
- Testing Machines
- Landing Gear Clevis Joints
- Sheave Axles
- Sprocket, Pulley Axles
- Hydraulic Actuator
- Conveyors
- Bomb Bay/Cargo Doors
- Nuclear Fuel Rod control
- Railroad/Towbar Connections



U.S. Patent No. 3,695,096

Please complete the Clevis Pin Questionnaire, describing your application, and forward to STRAININSERT. An engineer will evaluate and optimize the design resulting in the most accurate, durable, and cost-effective design achievable.

CUSTOM CLEVIS PIN & BOLT DESIGNS

FORCE SENSING CLEVIS PINS/BOLTS

