Precision Position Feedback for Aerospace and Industrial Applications
Aerospace (Commercial and Military)
- Primary and Secondary Flight Control Systems
- Engine Controls
- Hydraulic Reservoirs
- Cockpit Controls
- Surface Indication
- Thrust Vector Controls

Industrial
- Machine Tools
- Copiers
- Micro - Hardness Testers
- Paper Machine Controls
- Steer By Wire Controls
- Closed Loop Hydraulic Valve Positioning

Technical Overview
The linear variable differential transformer (LVDT) consists of housing containing a primary coil and two secondaries (wound in series opposition). The movement of a permeable core (shaped like a rod) through the transducer’s hollow center provides an output which is linear with the movement of the core.

AC to AC
AC Input-AC Output LVDTs are used primarily in military and aerospace applications. For these LVDTs, moving the probe from its fully extended to fully inserted position provides maximum output through null (minimum output) back to full output for a reversed phase.

DC to DC
Input-DC Output LVDTs are found in the commercial marketplace. In this version, displacement of the probe creates an imbalance in the transducer coils, resulting in changing DC voltage as the core moves from fully extended through null to fully retracted.
**Total In-house Capability for Design, Development & Manufacture**

Our philosophy of maintaining complete control of the design, manufacture, and quality of LISK products has led to a substantial investment in equipment, facilities, and training. This enables delivery of every order to specification, on time and on budget.

**DESIGN & ANALYSIS** 3D CAD design capability. Element (including finite) analysis in vibration, shock, temperature, magnetic, flow, heat transfer, and stress.

**R&D LABORATORY** Electrical characteristics, operational performance including pneumatic and hydraulic pressure/flow stands, response time, life cycling, evaluation of new processes, features, and new product development.

**NDT TESTING & MATERIAL ANALYSIS** Non-Destructive Testing services that includes x-ray, visual, and Dye Penetrant inspection.

**ENVIRONMENTAL TESTING** Including, but not limited to shock, vibration, salt spray, humidity, high (1000°F) and low (-150°F) temps, altitude to 100,000 feet, and other testing as required.

**HYDRAULIC TESTING** Up to 75HP, 60,000 PSI

**PACKAGING** Commercial, military, environmental storage, custom, VPCI, and returnable packaging and cleaning.

**MANUFACTURING ENGINEERING** In-house Tool/Machine design and build capabilities.

**CNC WINDING MACHINES, COMPUTER AUTOMATED TEST STANDS** Reduces manual testing time and cost and eliminates operator error.

**CNC MACHINES** Multi-axis, vertical and horizontal turning and milling as well as automatic manufacturing cells.

**SCREW MACHINES** Six spindle, eight spindle chucking and bar.

**WELDING/BRAZING** Electron beam, gas tungsten arc welding, laser, induction, heliarc, spot welding, and brazing.

**PLATING** Cadmium, zinc, electroless nickel, zinc phosphate, chemical film on aluminum, anodize, passivate, Zinc Nickel and others.

**PRESSURE MOLDING** Transfer and injection coil overmolding.

**INTERNATIONAL STANDARDS** Meets or exceeds many international certification standards.
DEDICATED TO CONTINUOUS IMPROVEMENT AND TOTAL CUSTOMER SATISFACTION.

Our investment in equipment and facilities is just part of our commitment to customer satisfaction. We also demonstrate it through the use of statistical process controls, Lean Manufacturing programs and continuous personnel and supplier training. It is this level of dedication and investment that makes LISK a global leader in the design and manufacture of Solenoids, Solenoid Valves, Sensors (LVDT) and Flame Arrestors.

LISK. ACTIVATING THE WORLD.