

# ***LISK***

G. W. LISK COMPANY INC.



## **engineered solutions**

***Activating the World***

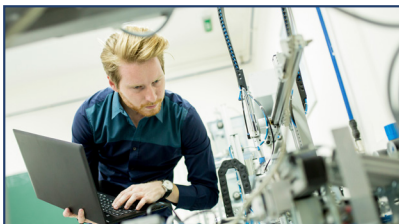




## At Lisk, we're delivering precision and performance that keep your business - and the world - moving forward.

We are a global leader in the design and manufacture of engineered solenoids, solenoid valves, linear and rotary position sensors, motors, electric actuators and flame arrestors. We deliver engineered solutions to hundreds of customers in diverse markets throughout the world enabled by our extensive design, test and manufacturing capabilities.

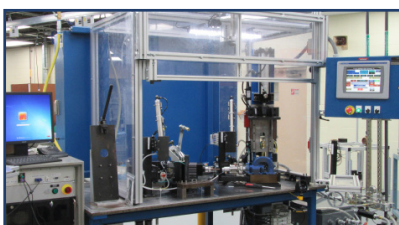
Lisk is comprised of over 700 employees operating in more than 400,000 square feet of manufacturing facilities headquartered in Clifton Springs, NY. We maintain complete control of the products we make from design to delivery.



**ENGINEERING** - We have multi-discipline engineering teams capable of designing, detailing, prototyping and simulation to ensure the product meets or exceeds customers satisfaction.



**MANUFACTURING** - We have the manufacturing capabilities to receive incoming raw materials, confirm composition, machine to detailed specifications, assemble (welding, bonding, molding, brazing), plate for environmental protection, inspect, test and ship.



**TESTING** - Overseeing all these efforts is an extensive Quality Department utilizing state-of-the-art measuring equipment and techniques for product conformance to drawings and specifications. We also conduct extensive testing to support validation and certification processes.

# PRODUCTS

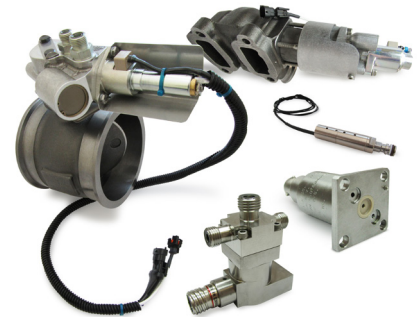
## SOLENOIDS

We engineer and manufacture solenoids for a variety of applications and operating conditions including sub-sea, on land and in the air. We leverage many years of experience to ensure the most reliable solutions in even the most demanding environments.



## SOLENOID VALVES

We design and deliver solenoid valves to a variety of markets including aerospace, defense, on highway, off highway and oil and gas. Our valves can be engineered to your specifications and can be designed to handle corrosive media, excessive pressures, high flows and extended life cycles.



## SENSORS

From aerospace to oil & gas our engineers have a deep understanding of the demands on LVDTs and RVDTs in the field and are able to work with you to execute a design that meets your application requirements.



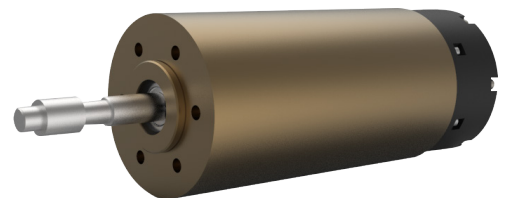
## FLAME ARRESTORS

We design flame arrestors for the most critical applications including diesel engines, gas analyzers, storage tank vents, and aircraft fuel systems. We leverage our field proven experience to deliver reliable flame arrestor solutions for your applications.



## MOTORS

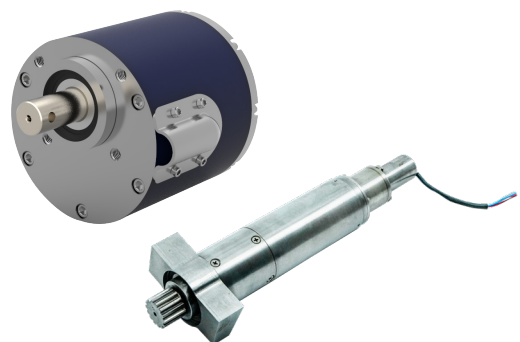
We supply a wide variety of AC and DC motors, brushless (BLDC), brush-type, torque motors, tachometers, induction and synchronous motors, stepper motors and others.



## ELECTRIC ACTUATORS

Our aerospace-qualified small rotary and linear actuators and in-line packages are incorporated into flight control, precision electro-optical positioning, radar antenna and other high-reliability systems.

- Rotary Actuators
- Linear Actuators





# CAPABILITIES



## From design to delivery: we do it all.

We strive for innovation and differentiation that allows you to have a competitive advantage so we've invested substantially in our equipment, facilities and training. This enables us to maintain complete control of the products we make for you. We have an extremely robust range of capabilities including:

**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.







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