



elliott manufacturing

# Outdoor Power

## SMART FLEXIBLE SHAFT SOLUTIONS FOR OUTDOOR POWER

Outdoor power equipment OEMs worldwide look to Elliott for innovative flexible shaft power solutions that stretch the functionality of products, adding value and bringing new opportunities in the market. Our flex shafts offer efficiency and optimal performance to a wide range of hand-held, gas and electric outdoor equipment, such as pruners, edgers, cultivators, blowers and split-boom products. Elliott shafts also provide superior chute control for snow throwers.

In larger outdoor power equipment, such as utility vehicles, lawn tractors, zero-turn mowers, golf carts, riding mowers and snowmobiles, Elliott shafts offer a flexible transmission of power as a welcome alternative to standard rigid steering columns. Our flex shafts are also used as PTO shafts, transmission drive shafts, starter shafts, suspension adjustments and instrumentation controls.

### WHY CHOOSE ELLIOTT

- ◇ Design expertise
- ◇ Product customization
- ◇ Rapid prototyping
- ◇ State-of-the-art testing
- ◇ Best-in-class manufacturing-knowledge and experience

### WHY USE AN ELLIOTT FLEXIBLE SHAFT

- ◇ Powers remotely with no loss in efficiency
- ◇ Endless flex shaft path possibilities
- ◇ Wide variety of sizes and constructions
- ◇ Patented, nylon, liner designs can enhance the overall performance of your equipment



[elliottmfg.com](http://elliottmfg.com)

Elliott flexible shafts are custom designed to meet your exact outdoor power application. You can specify any or all components to ensure the best value and performance of your equipment. And, Elliott shafts can be designed to rotate in one or both directions.

### CORE:

The core size is determined by the load and rpm transmitted through the shaft. Elliott cores are wound with multiple layers of high carbon wire and available in a variety of materials, constructions and sizes.

- ◇ Core sizes range from 0.125 to 1.625 inches
- ◇ Support up to 10 horsepower and 0-50,000 rpm

### CASING:

The casing protects and supports the core to prevent helixing under load. A variety of materials are available to enhance performance and prolong life in corrosive and harsh outdoor environments.

- ◇ Materials are designed to withstand dust, oil, moisture, abrasion and temperature extremes
- ◇ Casings have a steel or polymer liner, steel and/or cloth reinforcing braids and rubber covers
- ◇ String trimmer flex shafts use a nylon liner to reduce noise, enhance lubrication and improve their overall performance

### FITTINGS:

Fittings are machined or formed components that attach to the ends of the core to connect driving and driven elements.

- ◇ An infinite number of designs are possible to best mate with your power source
- ◇ The simplest drive is a male square formed end

### FERRULES:

These are the terminals attached to the end of the casing. They support uniform bending and prevent casing rotation. A wide variety of designs are available.

### COUPLINGS:

These female sockets are located at the end of the flex shaft assembly and engage the mating components within your equipment

- ◇ Range from 0.125" to 0.500" core diameter
- ◇ Plain bored fittings provide easy attachment with set screws

Elliott Manufacturing is part of CentroMotion's privately held, growing portfolio of highly respected global brands that add value through innovative motion, actuation and control technologies. Our skilled subject matter experts develop solutions that enable our global customers' products to be smarter, safer and more productive, while also creating value for our investors.

**SCAN QR CODE OR VISIT [ELLIOTTMFG.COM](http://ELLIOTTMFG.COM) TO LEARN MORE ABOUT OUR SMART, FLEXIBLE SHAFT SOLUTIONS.**



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