BETATRONIX
PRECISION CONTROL SOLUTIONS

ABOUT BETATRONIX

Betatronix LLC, a registered SBA small business located in Hauppauge, New York, is a technology leader in designing, testing and manufacturing precision electronic components for critical military and commercial applications. We offer a wide range of standard position-sensing products along with custom potentiometers, engineering expertise and unmatched product support. Our mission is to always strive for perfection in quality, delivery and responsiveness.

MARKETS & APPLICATIONS

Aerospace ▪ Aircraft ▪ Animatronics ▪ Defense ▪ Energy ▪ Industrial ▪ Instrumentation ▪ Medical ▪ Missiles ▪ Power Plants ▪ Robotics ▪ Satellite ▪ Space ▪ Transportation ▪ Vehicles

SUPERIOR ENGINEERING PRODUCES A TOP PRODUCT

By way of strong leadership and teamwork, our engineers and technical staff provide highly customized solutions to meet the maximum quality and high reliability standards that our customers demand. Our engineering expertise to design mission critical components has resulted in us becoming supplier of choice.

Our products are capable of enduring the most extreme technical and environmental requirements. From space exploration, satellite communications, telemetry, actuation, audio, oil/gas, instrumentation, green-energy, guidance, lighting, navigation and video, these applications require a value-added customized solution that Betatronix can provide.

WE DISCOVER SOLUTIONS

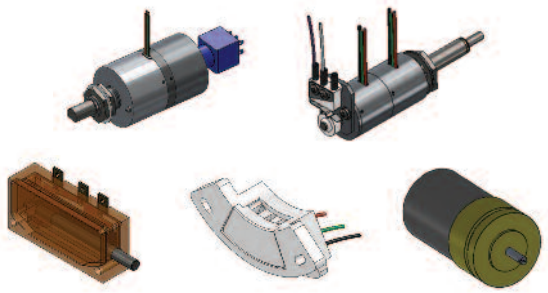
Betatronix will always work to uncover a solution whether it is to improve accuracy, design unique packaging, reduce unit size, extend unit life or build a custom product. The results – increased reliability, better functionality, improved performance and increased savings.

REGISTRATIONS

CCR: 25413
NAICS: 334415, 334419, 334413, 334511
SIC No.: 3676, 3761, 3764, 3769, 3812, 38239908, 3825, 3829, 3841
Schedule B/Commodity # 853340 (Plastic)
Schedule B/Commodity # 853331 (Wire Wound)
FSC: 1680, 5905, 6210, 6615, 6625, 6695
ECCN/CCL (EAR): 3A001.F, 2B206.C, 2B006.A

CERTIFICATIONS

AS9100 Rev.C – Reg. No. 10008269ASH09
ISO 9001:2008 – Reg. No. 10008269QM08



OUR PRODUCTS ARE TRUE INNOVATIONS

Betatronix products are constructed with molded conductive plastic and Cermet elements fabricated as rotary, linear, element/wiper assemblies and arc segment. Except for the multi-turn potentiometers, all of these products are also available with wire wound resistance elements.

Betatronix military products are designed and tested to military specifications. Our operators and inspectors are certified to NASA Standards. (MIL-R-39023 and MIL-R-12934. NASA-STD-8739.3 and J-STD-001D.)

Since our customers require pinpoint accuracy with custom packaging, combined with operation in harsh environments and extended life, we are always committed to ongoing product improvement to meet these exacting needs. Quality and performance are our highest priorities and are backed by a 2-Year Warranty.

BETATRONIX PRODUCT LINE

Arc Segment Potentiometers

- Constructed with fewer components reducing weight and cost.
- Custom angles available in either open or closed design.
- Interface directly to the shaft.
- Can survive 500 G's shock.

Concentric Shaft Potentiometers

- Available up to 1-1/16″ diameter housings.
- Single and multi-turn combinations.
- Multiple functional performance - two independent shafts control different potentiometer sections.
- Operational life exceeds 1 million cycles.

Element/Wiper Assemblies

- Custom shaft mating wiper assemblies available in linear motion, arc and rotary configurations.
- Customer specific mounting available.

Gear Potentiometer Assemblies

- Supplied with standard or anti-backlash gears for reduced costs, improved reliability and better overall performance.
- Customer specified gear interfaces available.

Linear Motion Potentiometers

- Wire wound, molded conductive plastic and Cermet elements.
- Stroke lengths to 24 inches and ¼″ to 1″ diameters.
- Custom designed units with specific features, fixtures, cabling or materials.

Miniaturized Potentiometers

- Single and multi-turn combinations.
- Multiple mounting configurations.
- Concentric shaft design.
- Wire leads, terminals and circuit board connector styles.
- Operational life exceeds 1 million cycles.

Motor Potentiometers

- Supplied as kits or complete, integrated motor assemblies.
- Single or multi-turn combinations.
- AC/DC motors in multiple configurations.
- Operational life exceeds 1 million cycles.

Multi-Turn Potentiometers

- Available with 10-turns of motion. Not available as wire wound.
- Molded conductive plastic for improved life characteristics.
- Custom gear ratios available to meet angular design requirements.
- Operational life exceeds 1 million cycles.

Switch Modules

- Single or multi-pole/position with positive detent "on-off" rotary switches.
- Concentric shaft, push-pull configurations.
- Operational life exceeds 10 million cycles.

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