



## Welcome!

For over 50 years, the MuShield Co., Inc. of Londonderry, New Hampshire has been designing and producing magnetic shielding components for multiple industries all around the world: aviation, high tech, medicine, industry, education and trade. If it concerns building materials with high permeability for low frequencies and static magnetic screens, we are the experts.

We work in conjunction with you and your colleagues to provide feasible, efficient, and cost effective shielding solutions. We have had countless opportunities to provide initial design assistance for new products which has enabled our customers to significantly shorten their design cycle. In some cases, a formal contract for this service is appropriate as it is the most cost effective and least time consuming alternative to shield design. In other cases, a quick study of the shield design you have created will enable us to guide you as you develop your product for production.



You may find it helpful for us to give you our perspective on a complicated shield you have designed for production. Our manufacturing experience enables us to look at a part from a production stand point, and to offer suggestions for improving cost efficiencies.

On occasion, MuShield is asked to visit a customer site for formal consulting on an electromagnetic interference problem. In cases such as these, we are contracted to provide a suggested solution, complete engineering drawings, and prototypes as necessary.

***When the Smithsonian Astrophysical Observatory scientists set up an experiment to test Einstein's Theory of Relativity, they specified MuShield to protect the atomic clock used to explore the structure of space and time.***

There is a story behind every shielding application. Our favorite is working with the scientists at the Smithsonian Astrophysical Observatory. Contracted by NASA to design and build atomic clocks for space exploration, the people at SAO have the opportunity to test Einstein's Theory of Relativity. Our role has been to provide them with some carefully constructed shields that are used to maintain the precision of the atomic clocks. Working with minds like this is an honor, as is every opportunity to create a shield design that works.

***High Technology companies using SQUID (Superconducting Quantum Interface Device) technology call MuShield to eliminate all interference from the Earth's Magnetic Field so***

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***that ultra sensitive R & D experiments will result in accurate findings.***

Our expertise lies in understanding the science of magnetic shielding and providing design and fabrication solutions for a wide range of applications. Typical sources of interference include permanent magnets, transformers, motors, solenoids, cables, and the Earth's magnetic field. In operation, a magnetic shield both absorbs and diverts magnetic flux by providing a path around the sensitive area. In addition, shielding is used to contain the magnetic field generated by a device.

***A manufacturer of MRI (Magnetic Resonance Imaging) equipment relies on the MuShield Monitor Enclosure for clarity of image on their high resolution monitors which are used for patient diagnosis.***

MuShield is fortunate to have on its staff several design engineers with extensive experience in the field of magnetic shielding. In many cases two design minds are better than one, and we work as a team to develop an end product that works.

MuShield is a small company that tackles big problems. Our flexibility and the talent mix of our engineers enables us to build, test, and ship prototypes within reasonable time frames.

MuShield works closely with customer design engineers to create a viable shield. We then build according to agreed upon specifications, and test for performance. Simple.

Should you have an existing shield design, MuShield will provide cost effective production parts. Along with the traditional machining capabilities such as metal forming, spinning, and welding, MuShield has talented machine operators specializing in CAM, precision laser work, and tool making. We are fully equipped for production runs; big and small.

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