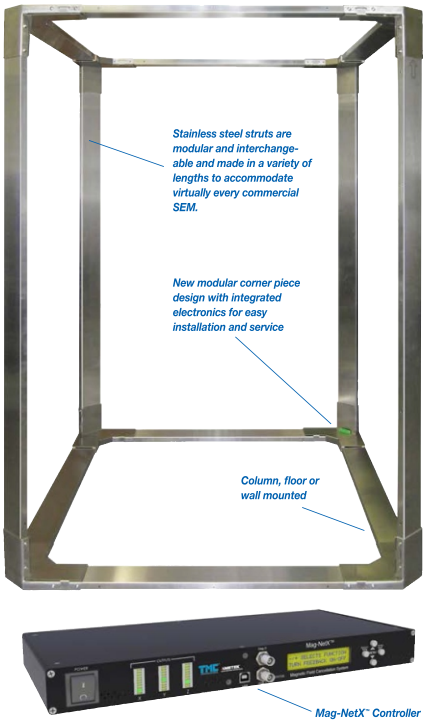
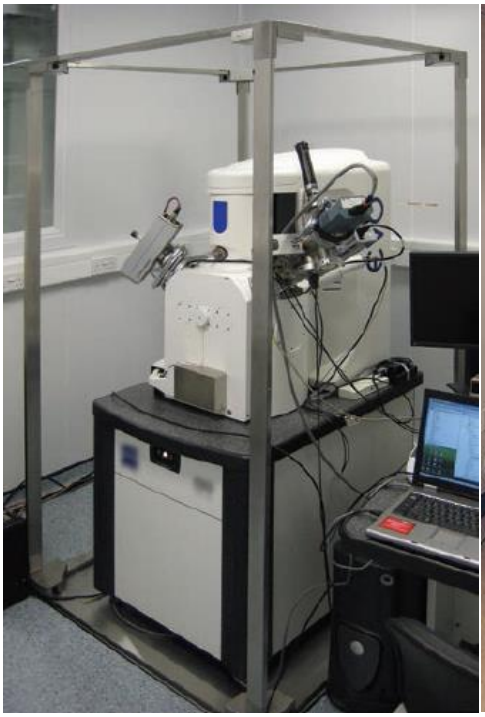
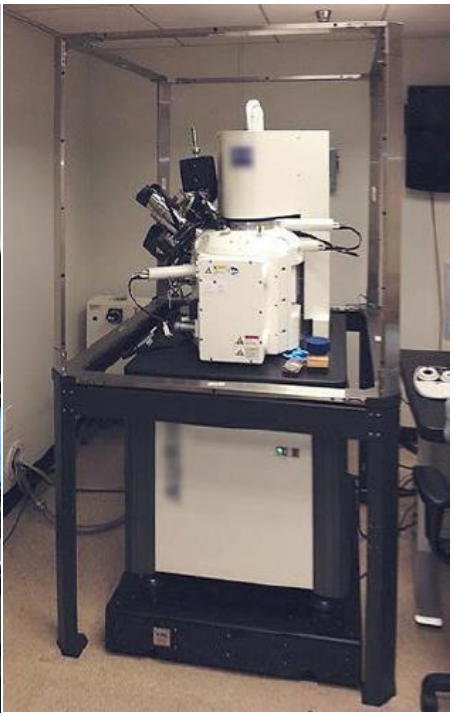
Mag-NetX™

Magnetic Field Cancellation System

隔磁系统







TMCMag-NetX主动式消磁框架系统，是TMC公司凭借多年在控制工程领域和电子装配制造技术经验，专为电子扫描显微镜等电磁场敏感仪器而研发的磁场消除系统。

在SEM的使用环境里，不可避免的会遇到附近的仪器设备、电梯、输电线、地铁等所产生的电磁场，从而影响到SEM的成像质量和量测精度。Mag-NetX主动侦测仪器周边的磁场环境，实时产生一个等量且反向的磁场。Mag-NetX是一个全方位的3轴磁场消除系统，包含一个具备自动校准和自检功能的专用控制器，交流和直流磁传感器，一个框架结构的亥姆霍兹线圈。这样的框架结构可以提供最优的磁场隔离对称性和均匀性。

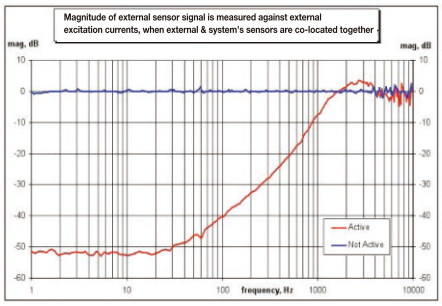
Mag-NetX主动式消磁框架系统的框架可以根据仪器规格、现场情况、客户要求等设计制作成不同的尺寸。

Mag-NetX性能特点：

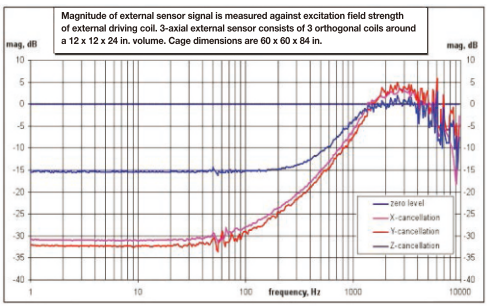
- 连续的磁场监控和隔离
- 动态100微秒响应
- 多种AC和DC磁场隔离模式
- 通常可改善环境磁场100倍
- 辅助输入数字式前馈
- 自检索自适应模式，"开机后不管"
- 多种尺寸和安装方式：全屋墙线，落地框架，支撑架+框架，桌上框架

怎样订购：

联系我们。应用工程师将根据您的需求配置系统并提供报价。



Plot 1. • *Magnitude of external sensor signal is measured against disturbance field strength of external excitation driving coil.*
• *Helmholtz Cage size 36 x 36 x 52 in. (91 x 91 x 132 cm)*
• *The best performance is at the system sensor location.*



Plot 2. • *Magnitude of external sensor signal is measured against disturbance field strength of external excitation driving coil.*
• *Helmholtz Cage size 60 x 60 x 84 in. (152 x 152 x 213 cm).*
• *3-axial external sensor consists of 3 orthogonal coils around a 12 x 12 x 24 in. volume.*
• *Excitation coil positioned outside Helmholtz cage, external sensor coils positioned around system sensors.*
• *Due to cage dimensions, Z suppression is lower because Z-compensation field has lower uniformity than X and Y, but longer protected dimension (24 in. vs. 12 in. for X and Y).*