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Additive Manufacturing Industry



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- Multiple galvo configuration options: Users can choose N14 and N20 which are the Post-Scanning galvos of Neutron series, or N20 and NPRF which are the Pre-Scanning galvos of Neutron series.
- High-precision galvo motor solution: Digital galvo based on grating encoder can provide superior long-term stability.
- Powerful and flexible laser processing SDK: MCF provides complete and easy-to-integrate synchronous control capabilities for galvo and laser. It helps users quickly build laser processing.
- Proprietary protocol with feedback: RL2-100 protocol provides functions such as temperature, current and tracking-error readback.
- Convenient and accurate flat field solution: When the CorrectionWizard correction software performs pre-scanning correction, it can import the dynamic axis compensation file corresponding to the configuration to complete dynamic focusing correction.
- Multiple accumulation point elimination scheme options: Provide FPK first pulse killer function, and power rise or drop slowly function, and power follow-up function to solve abnormal energy accumulation.

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- Multi-head splicing assistant: When MultiHeadVerify software performs multi-head splicing based on RMC2, it can provide controls to help users obtain correct splicing parameters such as correction import, light emission, correction displacement and rotation.

增材制造

- 多种振镜配置选择：凌腾系列N14, N20 的后聚焦振镜方案和N20, NPRF 的前聚焦振镜方案可以选择。
- 高精度的振镜电机方案：基于光栅编码器的数字振镜，可提供优越的长期稳定性。
- 强大灵活的激光加工 SDK：MCF 提供完整且易于集成的扫描振镜及激光器同步控制能力，帮助用户快速构建激光加工应用。
- 带有反馈的专有协议：RL2-100 协议提供诸如温度、电流、位置误差回读功能。
- 方便准确的平场方案：CorrectionWizard 校正软件在进行前聚焦校正时，可导入对应配置的动态轴补偿文件完成动态聚焦校正。
- 多种重点消除方案选择：提供FPK 首脉冲抑制功能、功率缓升缓降功能、功率随动功能用于解决异常能量堆积。
- 多头拼接助手：MultiHeadVerify 软件在进行基于 RMC2 多头拼接时，可提供校正导入、出光、校正位移与旋转等控制，帮助用户获取正确的拼接参数。

MCF简介

MCF(Motion Control Foundation) 是一款功能强大且灵活的激光加工SDK，基于 Microsoft .NET Standard 2.0 构建，可原生支持 C#及其他基于 .Net 平台的开发语言（VB，F#，C++.NET，配合RMC系列激光控制卡，提供完整且易于集成的扫描振镜及激光器同步控制能力，帮助使用者快速构建激光加工应用并专注于应用的核心业务逻辑。适用于多种激光加工方案，如标记，蚀刻，焊接，雕刻，钻孔，3D 打印等。

- 支持大部分常见的激光器
- 易用，高精度的校正
- 便捷的3D加工
- 丰富的振镜状态回读（位置误差，电流，温度等）
- 自适应激光功率

MCF Introduction

MCF (Motion Control Foundation) is a powerful and flexible laser processing SDK built on Microsoft .NET Standard 2.0, which can natively support C# and other development languages based on the .NET platform (VB, F#, C++.NET). It provides complete and easy-to-integrate scanning galvanometer and laser synchronization control capabilities with RMC series laser control card to help users quickly build laser processing applications and focus on the core business logic of the application. Suitable for a variety of laser processing solutions, such as marking, etching, welding, engraving, drilling, 3D printing, etc.

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