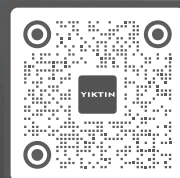


机床撞机保护系统 iMCP Kit

YIKTIN

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www.yiktin.com



振动监测的智能解决方案
SMART SOLUTIONS FOR VIBRATION MONITORING

iMCP Kit / iMCP套装

完美的机床振动监控系统

The Perfect system for monitoring and control Vibrations on Machine Tools

监测所有振动和碰撞事件
Monitoring of all vibrations
and collision events

优化机器和主轴维护
Optimization of
machine and spindle
maintenance

防止碰撞和
过载
Protect
against
collisions
and
overloads

加工工艺的改进
Improvement of machining
process

边缘控制器具有完整接口，包括其他接口的所有功能，使iMCP成为机床振动监测和控制的最完整系统：

The Edge Controller, including all functionalities of the other interfaces, makes of iMCP the most complete system for vibration monitoring and control for Machine Tool:

- 黑匣子 Black Box

根据类型、值和时间分类，传感器存储器中最多存储4000+条的文本数据和200条的图像数据。

Up to 4000+ vibration and collision events stored in the sensor memory categorized in term of type, value and time.

- 安全气囊 Airbag

在工作过程中防止机器、主轴和工作部件碰撞和过载。

To protect against collisions and overloads machine, spindle and working parts during working process.

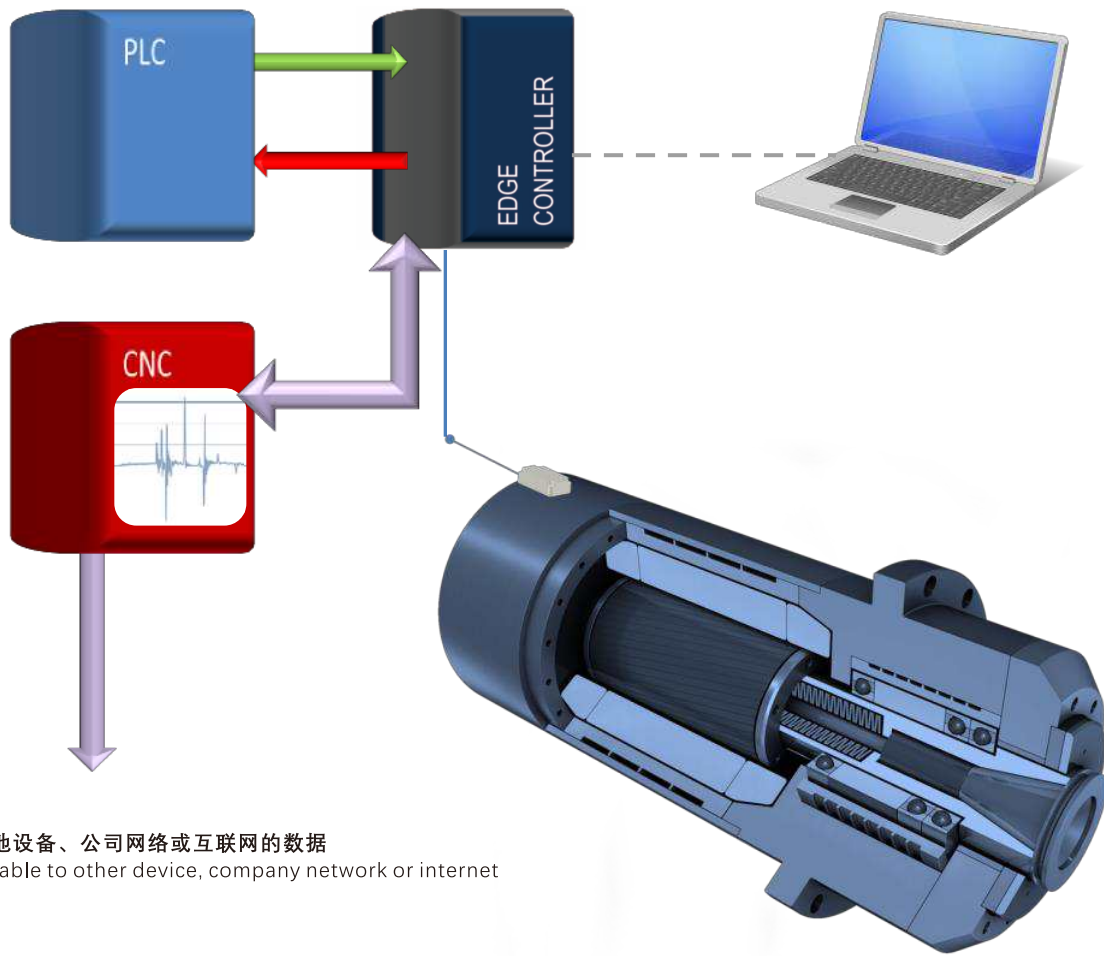
- 数字数据通信

Digital data communication

直接集成在数控机床中和/或可在工厂、公司或局联网上传输，增强了iMCP的可能应用。

Integrated directly in the machine CNC and/or spreadable over the factory, company or LAN, enhances iMCP possible application.

机床配置示例 Configuration Example on Machine Tool



如图所示，边缘控制盒允许iMCP在机床内进行所有可能的集成。

As in the figure, the edge controller grants all possible integration of the iMCP within the machine tool.

快速继电器输出为机器提供了直接保护，防止碰撞和过载，并且由于阈值限制可以由CNC控制并适用于特定的工艺、工具和材料，因此性能得以进一步增强。数控系统中数字振动数据的可用性可以对工作过程进行更复杂的控制。

The fast relays output provides a direct protection of the machine against collisions and overloads and is further enhanced since threshold limits could be controlled by CNC and adapted to specific process, tool and material. The availability of digital vibration data within the CNC could allow a more sophisticated control over the working process.

iMCP的内存内容可通过PC、CNC或直接通过以太网进行下载，从而增强了控制和检查机器健康状态的可能性。

The memory content of the iMCP is then available and downloadable via PC, through CNC or directly via Ethernet enhancing the possibility to control and check the machine health status.



技术规范 Technical Specifications

传感器 Sensor

产品名称 Product Name	三轴加速度传感器 Triaxial Acceleration Computer
尺寸 Dimensions (mm)	Approx. 30 x 38 x 10
外壳 Housing	铝合金 Aluminium alloy
重量 Weight	80g
防护等级 Protection Class	IP68
环境温度 Temperature Range	Operating: -20°C to 80°C Staying: -40°C to 85°C
线缆 Cable	2m
传感器类型 Sensor Type	MEMS
灵敏度 Sensitivity	0.0025m/s ² (0.25Mg)
测量范围 Measuring Range	±60m/s ² (±6g)
频率范围 Frequency Range	1500HZ
温度传感器 Temperature Sensor	-40~85 °C with an error of 2 °C
耐冲强度 Shock Resistance	3000g
安装方式 Installation	Magnetic adsorption or screw fixation (M4 x 3)



数字信号处理单元 Date Signal Processing Unit

产品名称 Product Name	设备保护边缘控制器 Edge Controller
尺寸 Dimensions (mm)	Approx. 140 x 31 x 85
外壳 Housing	铝合金 Aluminium alloy
重量 Weight	370g
防护等级 Protection Class	IP40
温度范围 Temperature Range	Operating: 0°C to 50°C Staying: -20°C to 70°C
湿度范围 Relative humidity	0到95% 无凝露 0 bis 95 % noncondensing
供电 Power Supply	18-30VDC
功耗 Current Consumption	300 mA max.
响应时间 Reaction time	< 1ms
输入 Input	18-30VDC, 20 mA
输出 Output	30VDC, 100 mA
安装方式 Installation	TS35 rail (DIN 46277-3)



订购信息 ORDERING INFORMATION

iMCP通常作为套件（传感器+控制器）出售。无论如何，这两种产品都可以单独购买。连接电缆为标准M12。

iMCP is usually sold as a Kit (Sensor + Controller). Anyway it's possible to purchase both items separately. Connection cables are standard M12.

部件编号 Part Number	描述 Description
M1300	传感器 Sensor
iMCP-1	控制器 Edge Controller
iMCP Kit	套装 (Sensor + Controller)

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