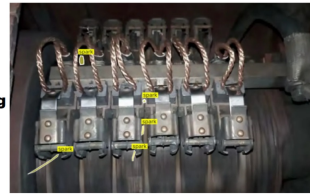


**UNLEASH**  
IPC520A DC Motor  
Condition Monitoring  
Through Automated  
Spark Detection



# UNLEASH IPC520A DC Motor Condition Monitoring Through Automated Spark Detection Instructions

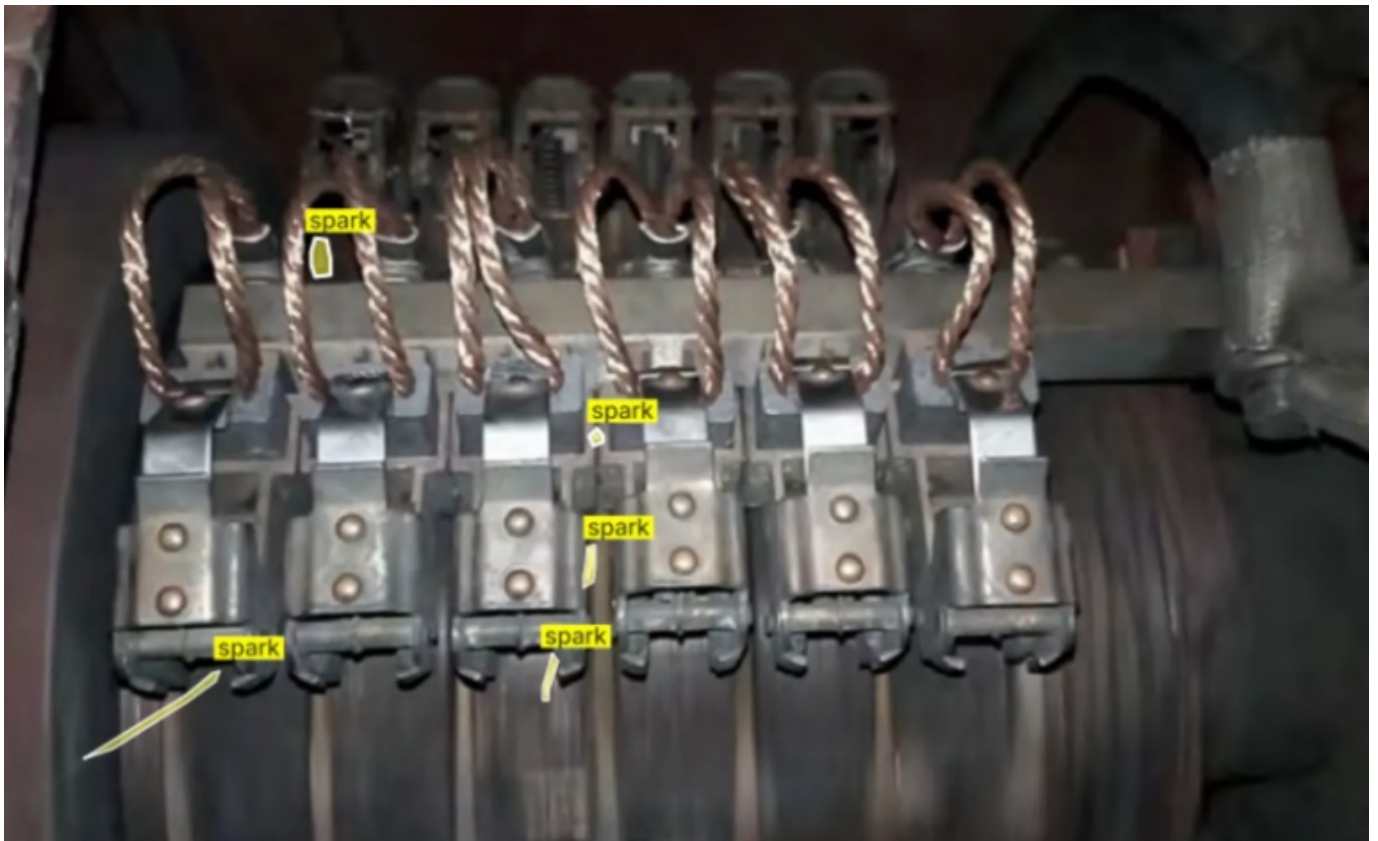
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**UNLEASH**

**UNLEASH IPC520A DC Motor Condition Monitoring Through Automated Spark Detection**

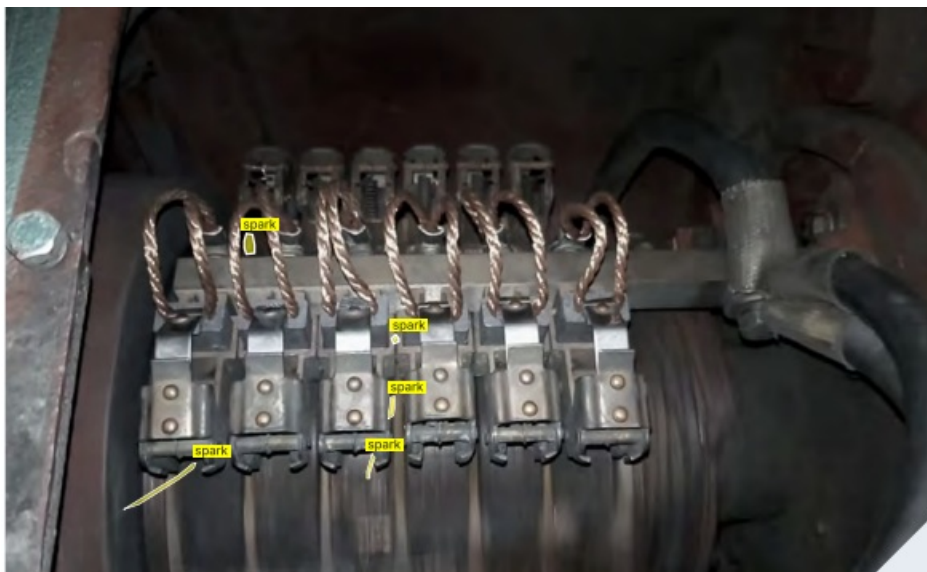


## Challenges

### Hazardous Sparks and Production Los

Large motor brushings require manual inspection, which is time-consuming and potentially dangerous for maintenance crews, as they must inspect the motors while operating. This manual process also necessitates running machines at lower than-designed speeds, resulting in lost production. Additionally, manual monitoring often fails to identify the root cause of sparks, making it challenging to optimize operating parameters and calibrate speeds effectively.

## Solutions



Unleash live's Spark Detection AI in action

## **Automated Monitoring and Analytics for Optimized Production**

Unleash Live's solution generates condition analytics through live image processing by installing a camera to monitor the motor brushings. Utilizing a Siemens IPC520A (Tensorbox) and our AI-driven live camera processing, we provide real-time data to indicate potential maintenance needs. This data is not just for reference but also serves as a basis for proactive maintenance. The system can predict when a brushing is likely to fail or require replacement, allowing operators to schedule maintenance activities in advance and minimize production disruptions. This feature enhances production efficiency and safety by ensuring that maintenance activities are carried out at the most opportune time, thereby reducing the risk of unexpected equipment failures and production downtime.

## **Benefits**

### **Continuous Monitoring**

The system operates alongside the plant, detecting required parameters 24/7 without the need for shutdowns

### **Real-Time Information**

Operators receive instant updates on the condition of the motor brushings. This information is not just for reference but also serves as a basis for proactive maintenance. The system can predict when brushing is likely to fail or require replacement, allowing operators to schedule maintenance activities in advance and minimize production disruptions

### **Enhanced Accuracy**

Collaboration between Siemens and Unleash Live delivers a more precise and comprehensive condition monitoring system.

## **Features**



### Edge Solution

Easy onsite deployment for live monitoring.



### Rich Analytics

Detailed analysis of spark characteristics to complement data from non-vision sensors.

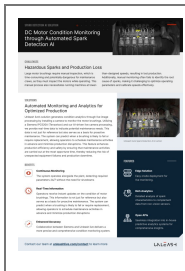


### Open APIs

Seamless integration into in-house predictive analytics systems for comprehensive insights.

Contact our team at [unleashlive.com/contact](https://unleashlive.com/contact) to learn more.

## Documents / Resources



### [UNLEASH IPC520A DC Motor Condition Monitoring Through Automated Spark Detection](#)

[pdf] Instructions

IPC520A DC Motor Condition Monitoring Through Automated Spark Detection, IPC520A, DC Motor Condition Monitoring Through Automated Spark Detection, Condition Monitoring Through Automated Spark Detection, Monitoring Through Automated Spark Detection, Automated Spark Detection, Spark Detection

## References

- [Contact](#)
- [User Manual](#)

### [Manuals](#), [Privacy Policy](#)

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