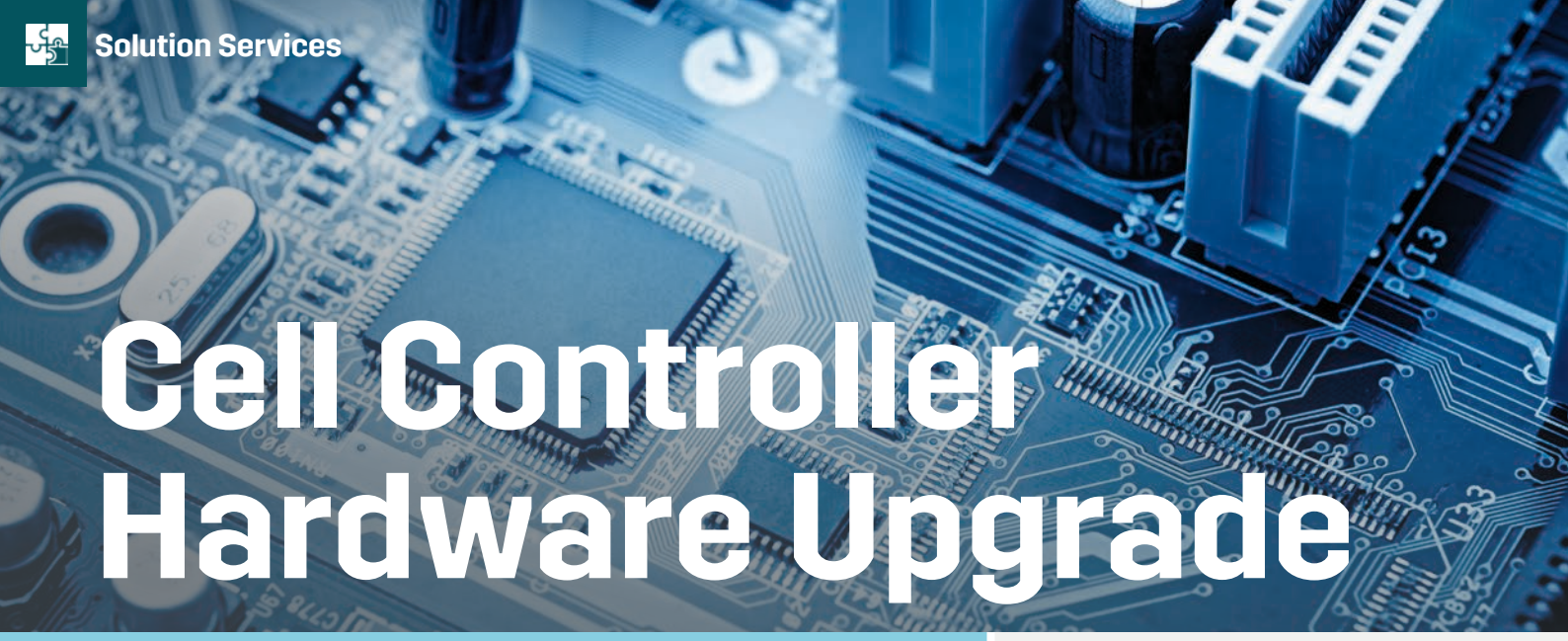

Cell Controller Hardware Upgrade

In the heart of your FMS is the Cell Controller, the master industrial hardware of the system, which has been selected and configured specifically for your FMS. It is a single point of failure in the system and like any computer, it needs to be upgraded periodically. By upgrading the Cell Controller you ensure that your production remains up and running and your FMS has a longer lifetime. A regular upgrade* is recommended also because a computer hardware has an average lifespan of 3-5 years, and the replacement becomes more difficult if the hardware is very old or the original operating system is not anymore supported. *The Cell Controller cannot be replaced by customer's own or other supplier's hardware.

"I want to utilize hours to produce, not to repair."

Preventive Upgrade can result in a significant decrease in system downtime

"I want to keep my control hardware in an optimal condition."

Optimal configuration for maximum performance

What is included?

- New Cell Controller hardware
- Configuration of the new Cell Controller
- Backup download from the customer's current system
- Delivery of the new Cell Controller
- Commissioning on the customer's premises or remotely
- System test drive after upgrade
- A service report on performed upgrade

Frequency

Recommended at least in every 5 years

Good To Know

We recommend to order the cell controller upgrade well in advance before the planned upgrade date because:

- Software environment is configured and optimized specifically for your FMS by Fastems experts
- Hardware is specified and selected according to system requirements and extensively tested by both Fastems and our supplier

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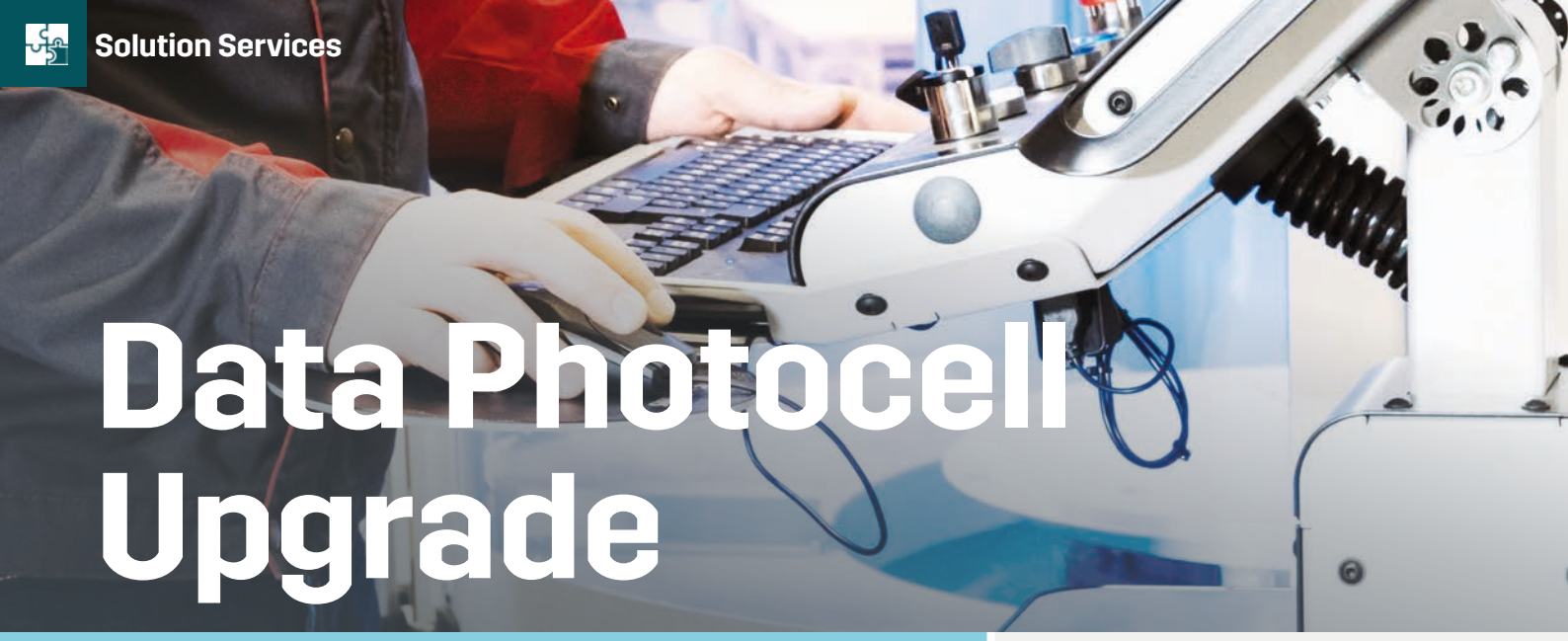
Solution Services



Data Photocell Upgrade

Data photocells are used for wireless communication between the crane and rest of the system. If they are broken, there will be no communication between the crane and MMS. Data Photocell Upgrade is designed to replace old data photocells which are not manufactured or supported anymore.

"Functional system."

Minimize the risk of unexpected breakdowns and production loss

"I need a maintenance plan."

Replacement can be planned carefully in advance

"We need somebody who knows how to do this."

The replacement is carried out by highly trained Fastems technicians with product-specific knowledge and experience

What is included?

- Delivery of system-specific replacement parts
- Initial inspection (checking that everything works normally before replacement).
- Installation of new data photocells
- Adjustment and calibration of the data photocells (baud rate, signal level, tilt angle, etc.)
- A service report on performed replacement

Good to know

It is possible to purchase upgrade kit to stock for future need.

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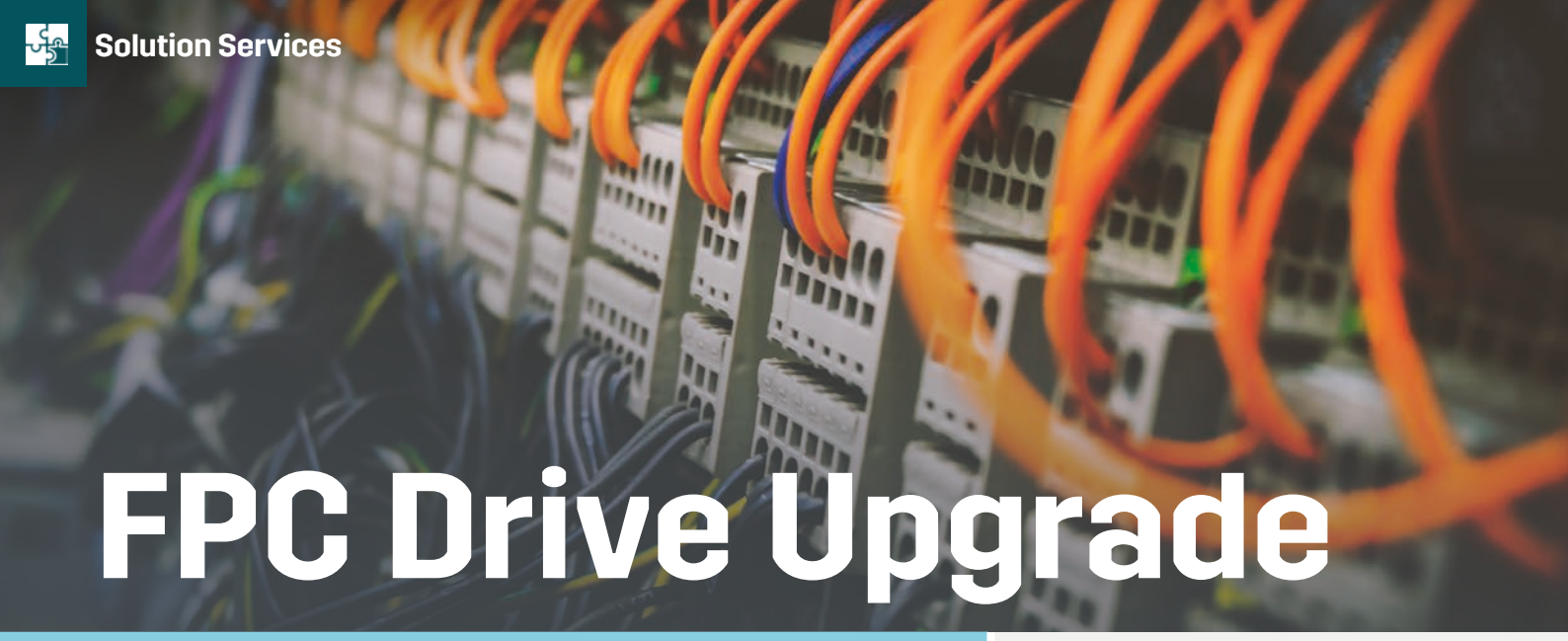

FPC Drive Upgrade

FPC crane control upgrade has been designed to secure the customer's production by replacing obsolete and unserviceable variable frequency drives and updating PLC of the FPC. Drives are used for controlling all axial movements of the crane and therefore they belong to the most critical electric components of the system. The objective of upgrade is to minimize the risk of an unexpected drive breakdown and production loss caused by it.

"We need good maintainability for our system."

Replace old end-of-life parts and increase maintainability of the system

"We need a stable system."

Unexpected costs of breakdown can be avoided

"We need a planned maintenance."

System downtime can be minimized by planning the upgrade work in advance

What is included

- Preparations before installation: documentation update, electrical and mechanical design work, parameter conversion
- PLC Update
- Delivery of materials
- Installation on the customer's premises
- System test drive and parameter optimization after upgrade
- Service report on performed upgrade

Frequency

Latest when drives are EOL

Good to know

If an EOL drive breaks down, it can't be replaced quickly with another drive model, which leads to increased downtime costs.

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MLS Drive Upgrade

MLS drive upgrade has been designed to secure the customer's production by replacing obsolete and unserviceble variable frequency drives and updating PLC of the MLS. Drives are used for controlling all axial movements of the crane and therefore they belong to the most critical electric components of the system. The objective of the upgrade is to minimize the risk of an unexpected drive breakdown and production loss caused by it.

"We need good maintainability for our system."

New drives increase maintainability of the system

"I need to have the systems working without problem everyday, all the time."

Unexpected costs of breakdown can be avoided

"We need a planned maintenance."

System downtime can be minimized by planning the upgrade work in advance

What is included?

- Preparations before installation: documentation update, electrical and mechanical design work, parameter conversion
- PLC Update
- Delivery of materials
- Installation on the customer's premises
- System test drive and parameter optimization after upgrade
- Service report on performed upgrade

Frequency

Latest when drives are EOL

Good to know

In MLS it is possible to upgrade only one drive at a time, for example, if other drives are working fine and there is no need to change them yet.

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Stacker Crane Control Upgrade

This upgrade has been designed to secure the customer's production by renewing the Stacker Crane control cabinet(s) and especially variable frequency drives in it. The new control cabinet contains updated safety components, new I/O devices and all other electrical parts. Therefore, the objective of this upgrade is to minimize the risk of an unexpected electrical breakdown and production loss caused by it.

"I want to keep my Stacker Crane running as long as possible."

New drives replace old end-of-life parts and increase maintainability of the system

"I need to have the systems working without problem everyday, all the time."

Unexpected costs of breakdown can be avoided – a typical downtime in emergency cases is at least some days

"I can't stop the system for a long period."

System downtime can be minimized by planning the upgrade work in advance

What is included?

- Preparations before installation: documentation updates, electrical and mechanical design work for cabinet(s), parameter conversion
- Cabinet assembly
- PLC updates
- Delivery of materials
- Installation on the customer's premises
- System test drive and parameter optimization after upgrade
- Service report on performed upgrade

Frequency

Latest when drives are EOL

Good to know

If an EOL drive breaks down, it can't be replaced quickly with another drive model, which leads to increased downtime costs.

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