



Upgrade for level fillers



Automation upgrade level filler



PRoCARE®

The smart way to produce
more tonnage per day

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JBT builds level fillers for the Liquid Foods industry. To keep the machines up to date we introduce a continuous improvement plan. This can involve:

- ✓ Maintenance improvements
- ✓ Accuracy improvement
- ✓ Program updates

This leaflet describes the automation upgrade for a level filler including the Simatic S5-S7 conversion and a new HMI.

What's the problem?

Siemens announced that for the SIMATIC S5 system, the product life cycle ends on 30 September 2020. As of 1 October 2020, spare parts will not be available and repairs will not be possible. So spare parts and components become increasingly difficult to source. Therefore, JBT has developed an upgrade in which the Siemens S5 PLC and HMI is replaced by a Siemens S7-1500 PLC and TP1200 comfort 12" touch panel to ensure that your filler can continue to meet the highest production demands and is compatible with the latest network systems.

During the upgrade we replace the Siemens S5 PLC and reprogram the machine with new S7 components together with installing a new serial communication system.



What is the new functionality?

The modification will move the software for PLC and HMI to a state-of-the-art and will benefit from enhanced operation, security levels, improved stability and more user friendly human machine interface (HMI). The type of PLC and HMI is supported by the Totally Integrated Automation Portal (TIA Portal). TIA Portal which has the flexibility to program PLC's, frequency drives, servo drives and HMI's. Resulting in higher efficiency and easier trouble shooting.

What will be modified?

A new Siemens S7-1500 PLC will be programmed as well as a new Siemens TP1200 Touch Panel. Both based on JBT's latest standardized level filler software. The new HMI will be installed in a stainless steel cabinet with communication via Profinet. As the experience shows that most Main Control Panels in case of a S5-S7 conversion, are outdated as well, we recommend to replace the complete Control panel including it's components.



What's the impact?

The downtime is depending on the level of exchange. A low level conversion is approx. 5-6 days, a high level conversion where we renew the complete Main Control Cabinet including I/O and cabling is approx. 8-12 days.

What are the benefits?

- ✓ Greater reliability of the installation.
- ✓ Availability of spare parts and components
- ✓ More user friendly Human-Machine interface
- ✓ User-friendly Siemens software environment
- ✓ Siemens Tia Portal is the standard modular software for today's control- and service engineers
- ✓ 10 years parts supply by OEM
- ✓ Remote support
- ✓ Essential upgrade for companies on their path to Industry 4.0



Please contact your JBT customer care manager for more information or a quote.

Contact for the Automation Upgrade

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COUNT ON JBT TO HELP PROTECT YOUR INVESTMENT

JBT's greatest value in PRoCARE® services comes from preventing unexpected costs through smart, purposeful, and timely maintenance based on unmatched knowledge and expertise. PRoCARE service packages are offered as a maintenance agreement in various service levels, depending on your production and cost management requirements.



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