

Upgrade for weight fillers



Weight control



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JBT builds weight fillers for the Dairy and Juice 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 an improvement for replacing the obsolete Weight Control Unit (WCU). This is also known as the Penko unit.

History

If you have a Stork/JBT weight filler built before 1998, we have an upgrade package available to improve availability, reliability and accuracy. The components in the old machine will no longer be available. After a while, trying to repair these cards, it's getting impossible to supply proper cards for the controls. For this reason JBT developed an upgrade package.

What does it resolve?

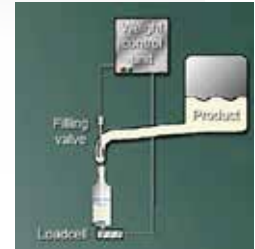
It has become impossible to manufacture any more WCU parts as the semi-conductor industry stopped using the old technology, whether it be CPU cards, measurement cards, etc.

A replacement stock of old generation WCU before 1998 is not available anymore.

Note: The PC also needs to be upgraded as well as the Operating System from DOS to Windows.

What is the new functionality?

All present JBT weightfilling machines are now equipped with a WCU Euro system loadcell controller mounted in a 19 inch rack. This unit and mounted measurement cards takes care of all weight calculations and dosings. It controls the filling valve directly between off, low flow or high flow. During operation, the WCU unit communicates via serial RS422 directly with the machine's PC and indirectly with the PLC. Via this communication, numbers are reported, but also modifications and settings can be downloaded to the WCU unit.



Advantages of a new weight control unit

- ✓ Increased reliability in obtaining spare parts and components.
- ✓ In the old situation one processor controlled 12 loadcells. In the new situation every loadcell will be equipped with an individual processor, resulting in a higher accuracy per loadcell.
- ✓ At the bottle infeed the bottle detection will be done on weight. The critical adjustable infeed photocell will be removed.
- ✓ In the old situation taring and zeroing is done on a fixed position and filling is started on a fixed position. In the new situation filling will be started immediately after taring is done, which will positively influence the capacity.
- ✓ Flow control was only carried out in the fast filling phase. In the new situation flow control can be carried out during all phases of the filling process.

What will be modified?

During the change over every loadcell will get its own processor which means that the system speed is much higher, actually resulting in higher accuracy.

What's the impact?

Removal of the existing unit, mounting, wiring and testing of the new WCU weight unit will require access and downtime of an estimated 5 days.

What are the benefits?

- ✓ No prolonged unexpected downtime due to component failure/obsolescence
- ✓ Higher fill weight accuracy
- ✓ Better and more communication resulting in more operator information

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

Contact for the Weight Control 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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