

Upgrade for weight fillers



Weight control



PRoCARE®

The smart way to produce
more tonnage per day

jbt.com

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

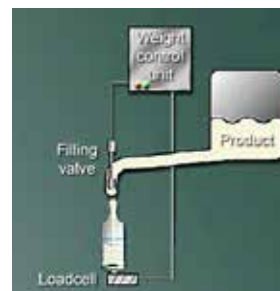
This leaflet describes an improvement for replacing the obsolete Weight Control Unit (WCU). This is also known as the Penko unit.

History

All JBT weightfilling machines are 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.



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,...

A replacement stock has been foreseen by WCU to be used for urgent replacement, but off course this stock will not last forever.

What is the new functionality?

With the newly developed WCU weighing system, not only are any obsolescence risks mitigated, WCU also incorporated new functionality based on feedback from JBT.

These developments include, but are not limited to:

- ✓ Updated hardware & internal software such as CPU, Operating system
- ✓ 100Mbit dual Ethernet IP, Modbus or Profinet-slave
- ✓ Faster sampling: 1600/s compared to 1000/s: Improved accuracy
- ✓ Digital filtering compared to analogue: no resonance
- ✓ Fine fill time can be automatically adjusted: up to 5% shorter fill time
- ✓ External SD card & USB drive
- ✓ Following latest OIML regulations



What will be modified?

The existing WCU weight unit can be setup as a one-to-one replacement. Doing so will reduce wiring to minimal for the loadcells. For communication 1 ethernet cables has to be wired.

If the slipringset doesn't have Ethernet sliprings, this slipring unit has to be upgraded before the new WCU weight controller can be installed.

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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