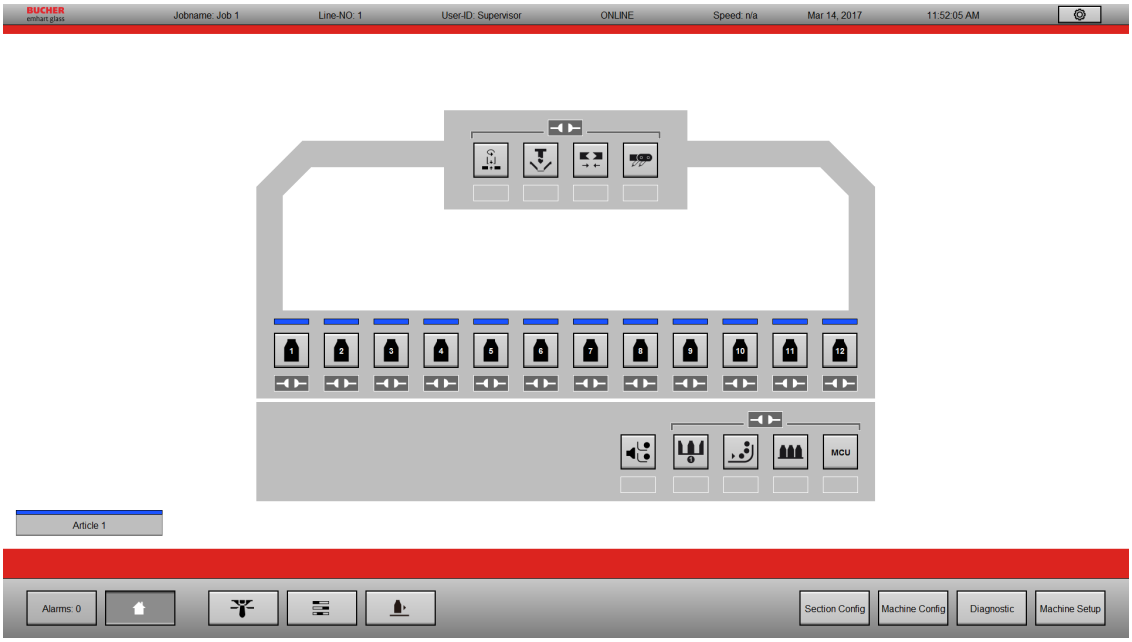
Technical News Bulletin

Steinhausen, November 2025



UC2 – New FlexIS user interface

- Versatile, powerful, and user friendly touch screen interface
- State of the art Server-Client architecture
- Multi article operation at the same time

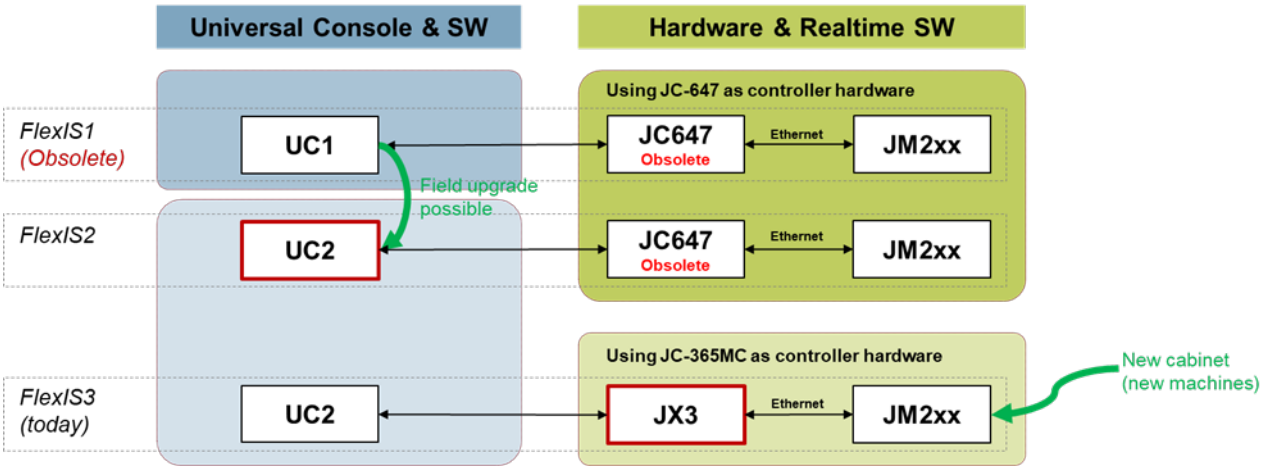
Introduction

Together with the FlexIS 3 Bucher Emhart Glass introduces a new user interface called UC2 (User Console 2). The UC2 sets a new benchmark for the operation of an IS machine. It is a versatile, powerful and user-friendly touch screen interface. It uses the state-of-the-art Server-Client architecture, which allows a simultaneous operation on multiple clients.
It is also the foundation for any future developments. Especially for the Bucher Emhart Glass End To End developments.

FlexIS Versions

The FlexIS control system consist of three major components:
User Console (UC)
Controller
Servo Drives

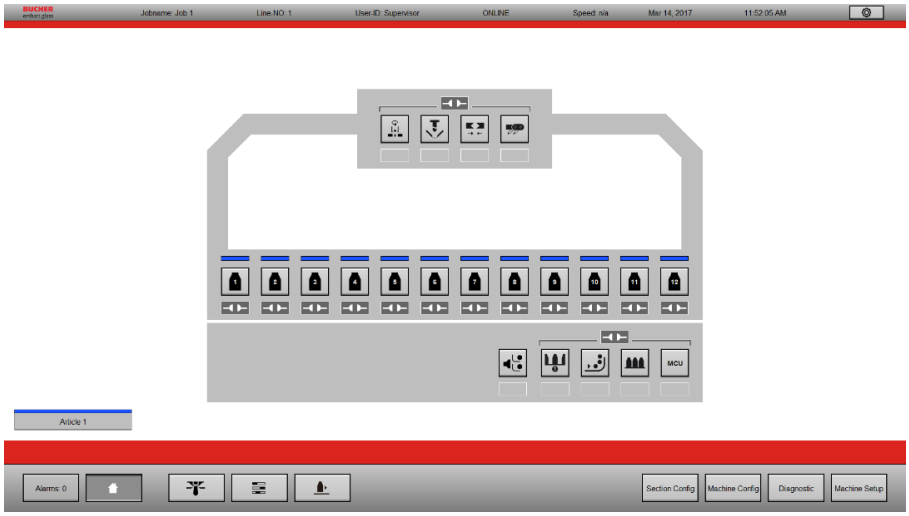
FlexIS 3 replaces the UC as well as the real-time controller.
The UC is the interface of the control system for the machine operator. To be able to offer some of the latest developments to existing FlexIS 1 customers, we decided to make the new User Consol UC2 available as an upgrade package for FlexIS 1. The FlexIS 1 with UC2 is named FlexIS 2.



User Interface

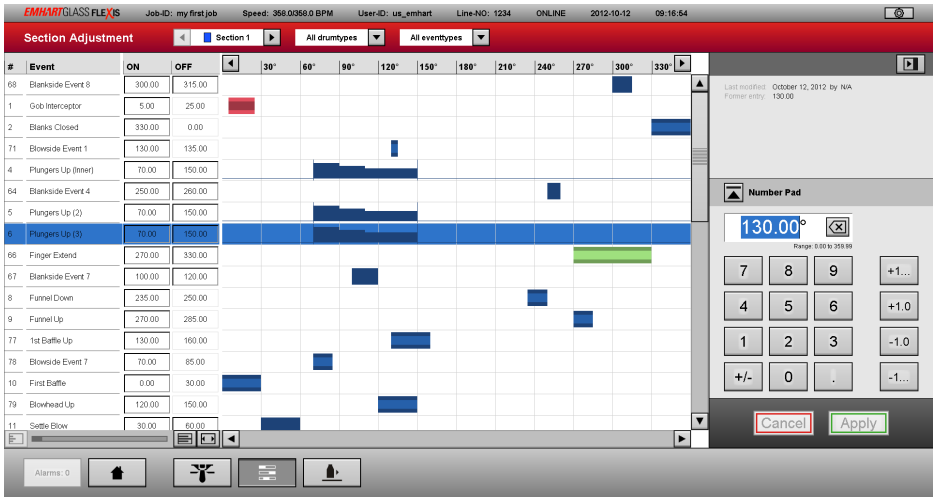
Interactive Home Screen

The home screen gives an overview of the status of the machine. It is the main navigation screen and allows direct access to all machine parameter screens.

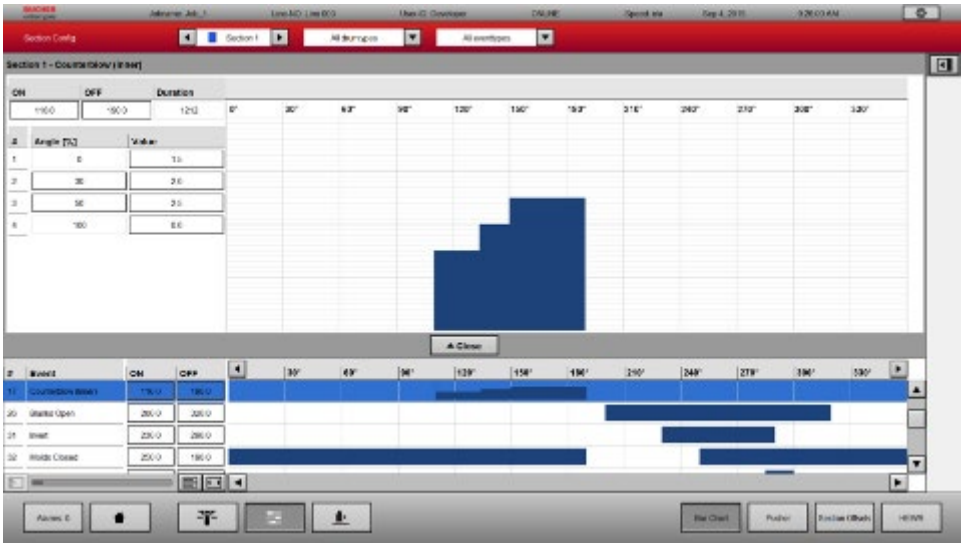


Enhanced Bar Chart

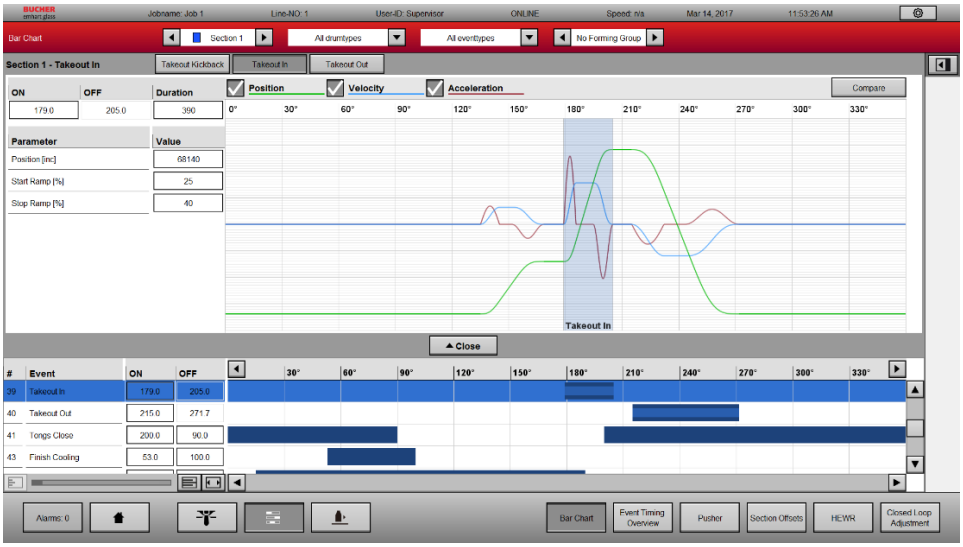
The new bar chart screen is the most noticeable enhancement for the operator. The bar chart screen contains all section settings, which need adjustment during a job run. It allows the adjustment of timing values, FPS valve pressures and servo motion parameters.



By clicking on the bar you get a detailed view of the FPS pressure settings and its corresponding timing values. All FPS settings can be made in this screen.

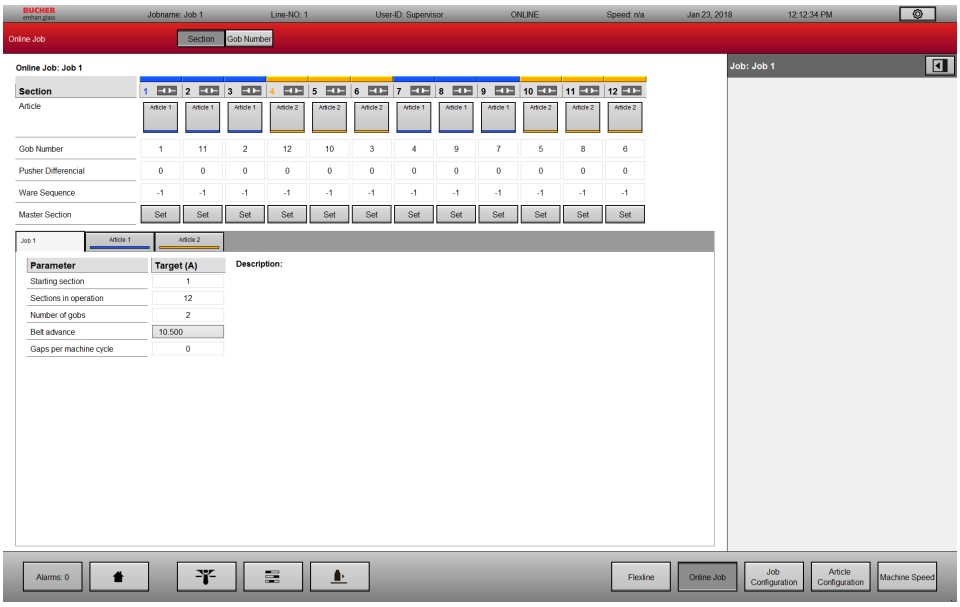


The same is possible for all section servo axis. You can adjust the position, motion duration and ramp settings directly in the bar chart.

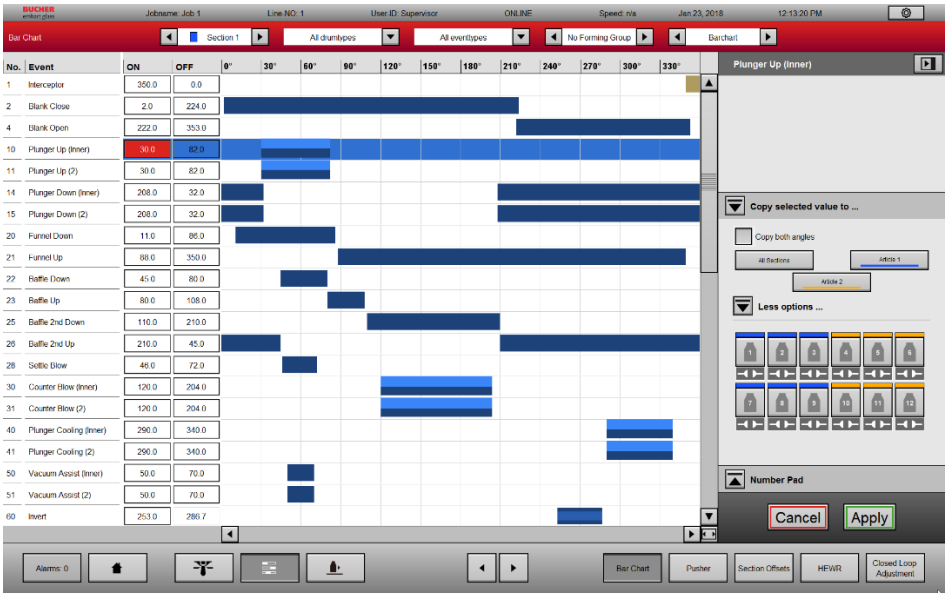


Multi Article Operation

A trend in the glass container industry is to run multiple articles on an IS machine at the same time. The UC2 is fully designed for this operation. It allows article settings to be stored and downloaded individually by section. The colors indicate which article is running in which section.

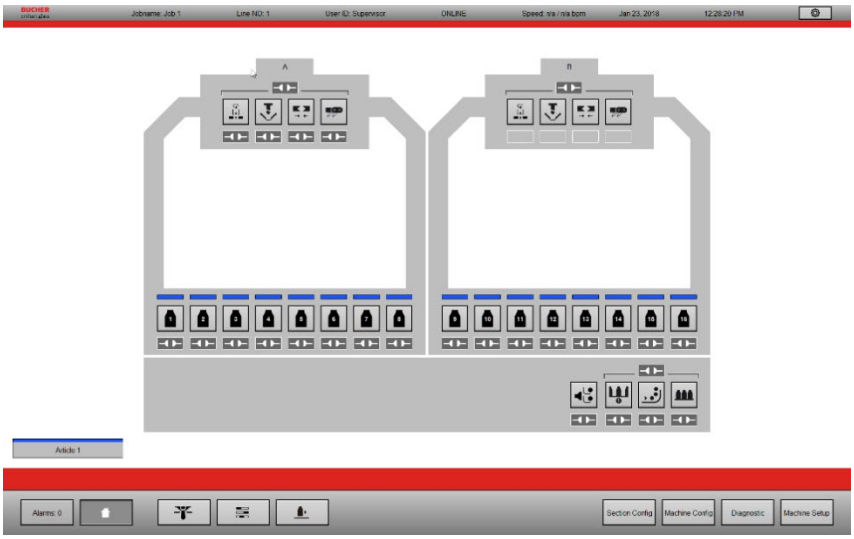


The same color codes and selection possibilities are shown when copying values.



Tandem

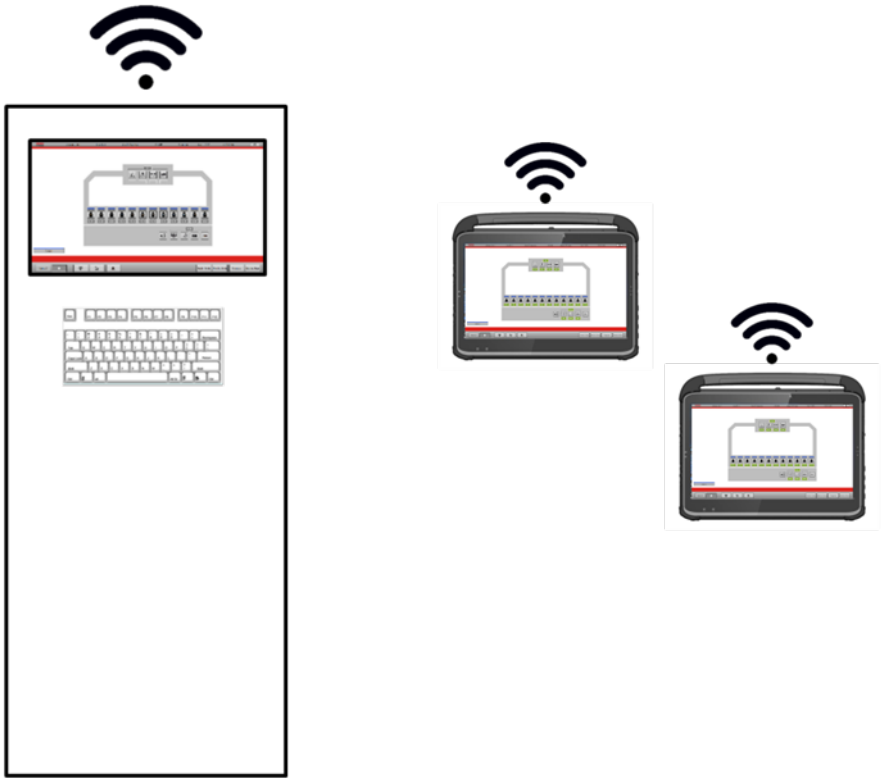
With UC2 you operate a tandem machine with only **one** UC. It's of course possible to use more than one client (user interface) simultaneously.



Multiple Clients

As already mentioned above it is possible to use more than one client (User Interface) at the same time. These clients work independently which means that you can operate on every client on different screens.

All clients send their individual changes to the UC2 server. The UC2 server is a central service, which handles all communication to the database, to the controllers and to all connected clients.



UC1 Upgrade to UC2

UC2 is not only available for FlexIS 3. It is easily possible to convert a FlexIS 1 system to FlexIS 2 by upgrading the UC1 system to UC2.

Items for Upgrade:

- UC2 computer
- 21.5'' Touch Screen
- Mounting Frame for Screen
- FlexPad 3
- WLAN Access Point

Parts to order for a UC2 upgrade:

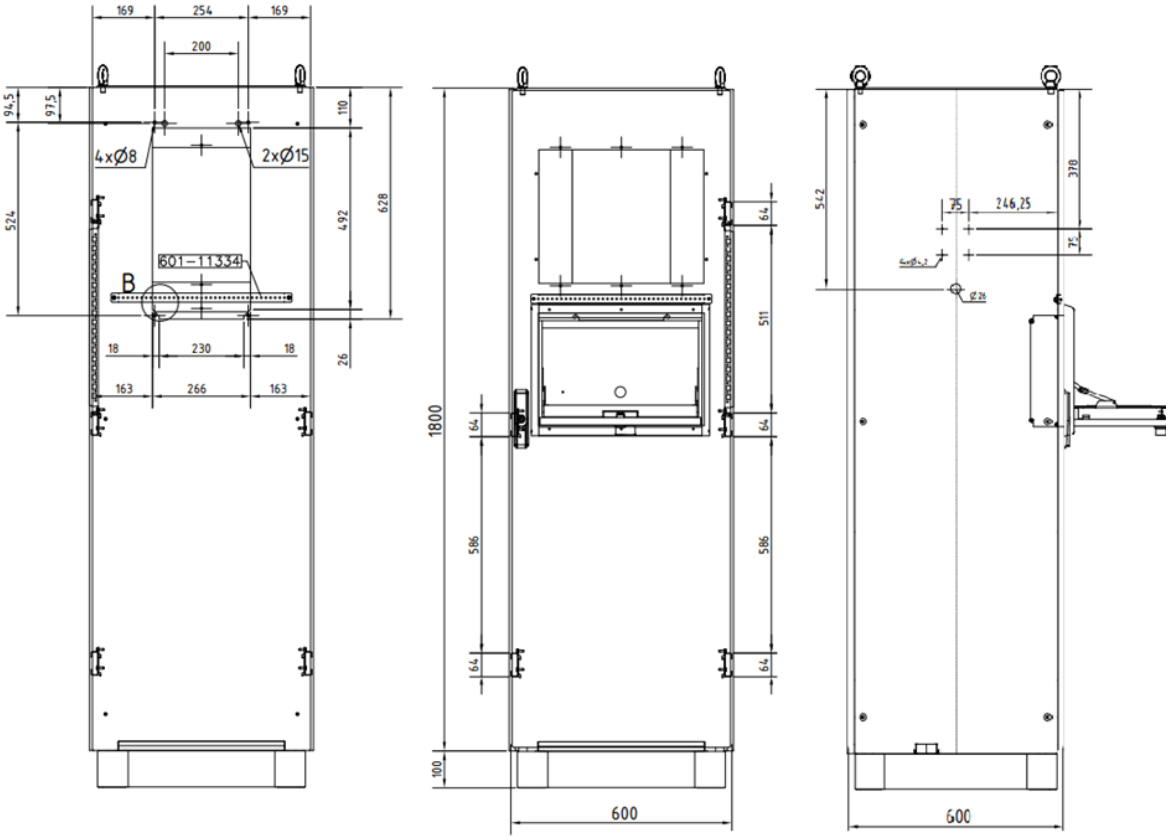
601-11492	UC2 Computer
601-11071	Power Supply for UC2 Computer
601-11216	USB Cable
601-11115	DisplayPort Cable
601-11202	21.5'' Touch Screen
601-12-10	WLAN Access Point Kit
601-11338	Ethernet Switch
601-20156	FlexPad 3
601-20159	Docking Station 3
601-11127	Adapter Frame for screen
601-11565	Adapter plate for Docking Station

Technical Specification

Size of cabinet
Width: 600 mm
Height: 2000 mm
Depth: 600 mm

Touch Screen
Screen Size: 21.5 inch
Screen Resolution: 1920x1080 pixel

Power Requirements
Voltage: 230 VAC
Power Consumption: 1 kVA



VIEW FROM REAR FRONT VIEW VIEW FROM THE LEFT