

## Case Study – Robicon NXGpro Upgrade

CHB Drives were engaged to upgrade an obsolete Robicon NXGI controller to the current generation of NXGpro controller.

CHB identified the NXGI controller as having reached the end of its service life and is currently not supported by the OEM (contains an obsolete single board computer). CHB Drives engineered and implemented an upgrade of the controller and auxiliary components:

- Robicon controller from an NXGI to an NXGpro
- Power supply for the controller
- System interface board
- Wago I/O board upgraded to an NXGpro User I/O Board

CHB were able to perform a factory test on the new hardware and software before arriving on site. The factory testing utilised CHB's proprietary Robicon Demonstrator to simulate the operation of a working drive including power cells on the bench. Using the demonstrator, CHB was able to minimise site commissioning, by ensuring all functionality was verified before arriving on-site. The following was tested during the factory testing:

- Latch Fault Relay modifications due to firmware changes
- System Operating Program mapping of inputs due to the Wago to User I/O Board upgrade
- Testing of safety functionality
- Operation of the drive using the site parameters and System Operating Program
- Communication with a Siemens PLC via Profibus

