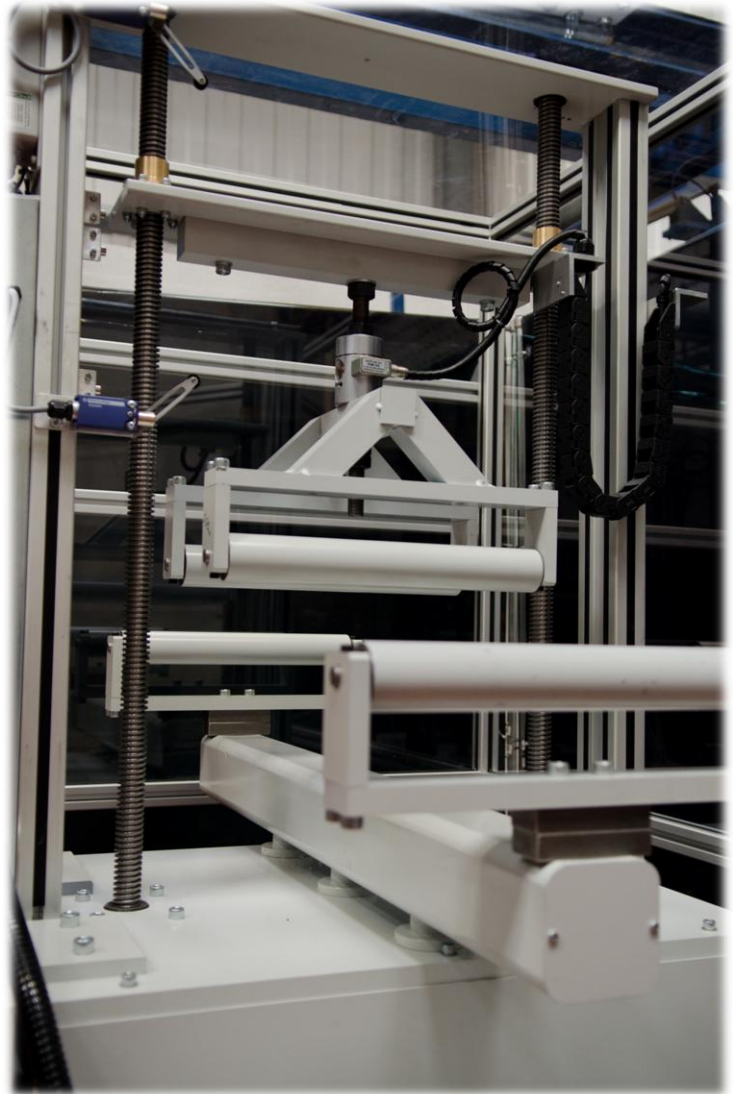


4-Point Bending Machine

The 4-point bending machine is designed to test glass samples. The machine slowly applies pressure to the glass sample and measures both the deflection and break force. This machine conforms to all relevant UKAS standards and is amongst the first used in the UK.

The Control System uses a sophisticated PLC controller to process the data received from the loadcell and operate the Servo motor drive. The system uses a 10" HMI screen for operator interface and data logging with the facility to email the data collected after each test. The system can be set at any speed between 0.1 and 200 mm/second and can apply forces between 0 and 25000 Newtons. The controller is able to process the data to a resolution of 0.7 Newtons giving it a level of accuracy far in excess of the required standards. The system is able to test and break glass upto 30mm thick and is fully enclosed within a safety guard. Each system can be supplied with a second loadcell and fixings to be used for calibration purposes.



The HMI used on the system displays all of the data from both the current test and previous tests and enables the user to operate the machine in both automatic and manual modes. The data collected is displayed as historical trend data and can be downloaded in .csv format directly from the screen or emailed as an attachment to any number of recipients. All aspects of the machine can be set-up and adjusted via the HMI with various levels of security access.

If you require further information regarding this machine or similar machines designed and developed by Holloway Control Systems, please get in touch and our engineers will be happy to help.