

Measuring Station

For Concrete Test Cubes – 150mm and 100mm

Hylec Controls' Measuring Station is designed to measure the dimensions of concrete cube samples for 150mm and 100mm sizes.

The Measuring Station has many features including:

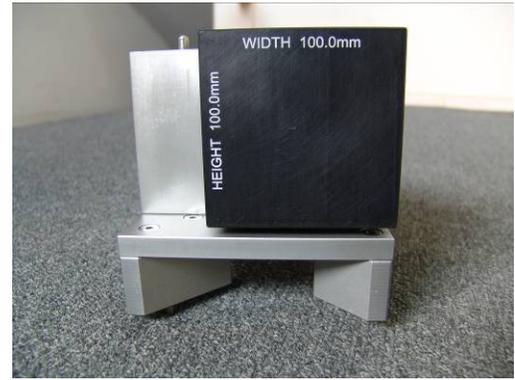
- 3 through-beam edge detecting optical measuring systems
- A separate display unit with 3 digital displays in mm error readings, width and depth, and one for height. There is a 4th digital display showing the mass, as this Station is fitted with a load cell
- An RS232 signal is provided for transmission of ASCII data in mm to a PC via MODBUS system.
- Robust, to suit the concrete laboratory environment.



Measuring Station Features:

The edge measuring system includes a laser transmitter and CCD receiver, is totally digital and measurement is independent of temperature, surface texture, colour of sample or dirt on lenses. Edge Measurement minimises errors due to craters in the sample surface.

This station is supplied with a spacer jig for the 100mm samples. When not in use – the spacer is locked to the top of the station so as not to affect the weight readings of the 150mm cube samples.



Spacer Jig for 100mm samples



Spacer Jig locates on the top plate of the station

Measurement accuracy is 0.1%

- Fitted with weigh feature – eliminates need for a platform scale, and allows all 3 dimensions and weight to be transmitted via one data stream.
- Dimensions transmitted in mm. Self-contained system – measurements can be made manually if PC not available
- 100mm and 150mm samples automatically detected via proximity switch and spacer jig setup.
- Manual dimension calibration facility to compensate for wear of mechanical parts.
- Reference cubes are provided, and button is used to calibrate the station.
- Mechanical over travel stops for overload protection
- Auto-tare feature for weight – zeroed reading when a sample is removed
- Cal-Enable lock on display panel – this allows calibration in the field
- The sample is mounted upside down on a hardened centre button and rests at an angle against several hardened side supports, to ensure correct positioning of the sample and ergonomic working location for the operator.
- Height is thus measured at the bottom of the meniscus of the “rough end”, while the width and height are measured at right angles to one



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