

## **25,000kN compression testing machine**

The 25,000kN electro-hydraulic servo-controlled compression test system is a stand alone self-balanced testing machine using a pre-stressed steel frame composed of a 25,000 kN actuator controlled by an electro-hydraulic servo power pack. It is able to carry out precise load / displacement controlled tests. The test system is specifically designed for structural tests on typical structural members made of high strength steels and steel-concrete composite sections. The test system offers automatic data acquisition and analysis, real-time data display and various database management functions. In addition, data transmission and remote testing control via the internet can also be achieved.

### **Key features:**

- 1) Compressive load capacity: 25,000kN
- 2) Force measuring range: 2%—100% of the load capacity, i.e.500kN—25,000kN
- 3) Force accuracy:  $\pm 1\%$
- 4) Stroke travel: 500mm
- 5) Displacement measuring resolution: 0.01%FS
- 6) Displacement accuracy: 0.1mm
- 7) Testing area: 2,200mm×1,800mm (L x W)
- 8) Vertical test space: 1,500mm (H)



Figure 1 Prestressed main steel frame of the testing system



**Figure 2      Electro-hydraulic servo power pack**