

Dual-Axes Bidirectional Servo Hydraulic Testing Machine BIA5205



BIA5205

Configuration

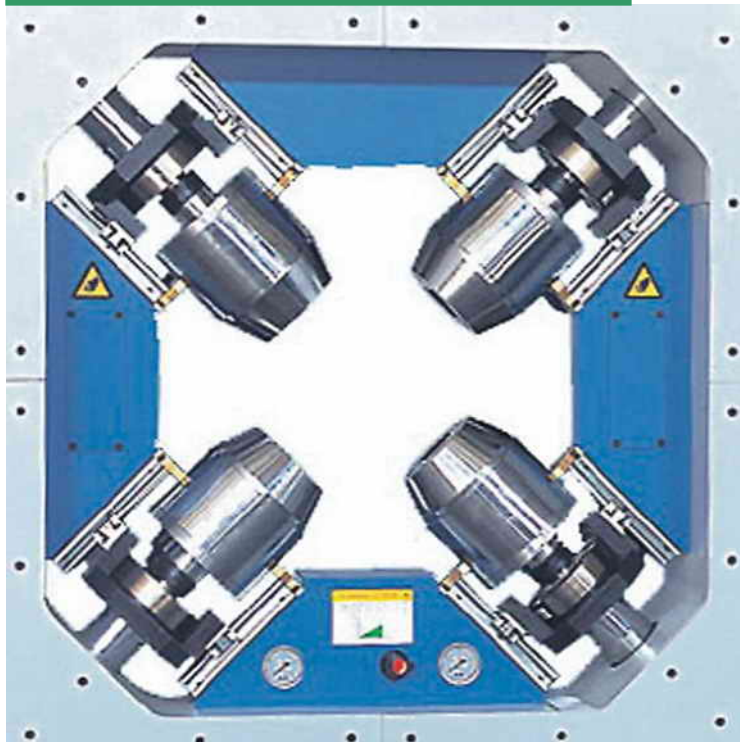
BIA5205 features servo hydraulic loading and motor driving system and a octagonal construction for exceptional load frame rigidity .It has dual-axes and bidirectional testing space for tension test and other tests (need corresponding grips)respectively. The machine has remote handheld controller with extra-length cord to adjust testing space to meet specimens of varying lengths via controlling movement of pistons. Its capacity is 200kN with an accuracy of $\pm 1\%$ of the displayed load from 0.4% to 100% of capacity.

Functions & Applications

BIA5205's systems are guaranteed to meet ISO 15579-2000, ISO679, ISO 7438-1985, GB/T228-2002, GB/T17671-1999, GB/T232-1999 and other international and national specifications ,which are suitable for tension and other tests(need corresponding grips) on materials and assemblies such as metal and various crystalloids etc to research those materials' anisotropy .In detail, it can performs static single or dual axes tension test of crisscross specimens and static compression

preset curves including sine wave ,triangle wave, trapezi a wave and combin ed wave etc. What's more, it can control centers of specimens not to move. With powerful testing software PowerTest,

Fig.31:Close-up of inner construction of BIA5205



output, print test report and data with customized format. With knight after service of experienced experts and assistant controlling of powerful professional testing software PowerTest, the machine can be widely used in ultimate R&D department, Universities and Academies, Quality control and Inspection department, calibration centers/laboratories and concerned industries etc.

DCS-200/300 controller



BIA5205 series' systems can acquire, dispose automatic



test of quadrate specimens, and dynamic single or dual axes test according to

ally testing data, display real-timely stress-strain curve, load-deformation curve, load-time curve and other related curves, at the same time, can save,

Control System

BIA5205 is supplied with closed-loop servo control capability conducted by DCS-300. This closed-loop control system constantly monitors the test in progress and regulates the testing rate to maintain preset conditions. This enables you to conduct tests automatically and ensures consistent testing control free from operator variability.

Technical Specifications

Model	BIA5205
Load Capacity (kN)	200
Accuracy Level	1
Unidirectional Stroke of Piston(mm)	150
Dynamic Frequency Control Range	Single axes:0.01-10Hz; Double axes:0.01-5Hz

Notes

Operating temperature range: 0°C to 38°C

Storage temperature range: -10°C to 45°C

Humidity range: 10% to 90% non-condensing, web bulb method

Power: standard optional voltages 220/240VAC, 50-60 Hz; power must be free of spikes and surges exceeding 10% of the nominal voltage(CMT5000 needs voltage in 380V±10%)