600 Series Servohydraulic Test Machine

Overview

The 600 Series Servohydraulic Test Machines are affordable solutions to the needs for tensile, compression, flexural bend and shear testing applications. With a large dual test space, this machine provides enough test space to test with large fixtures safely and efficiently. These test machines are configured with an open-front hydraulic wedge action grip design to improve operator safety and throughput, and features a number of jaw faces to cover a large range of specimen sizes. Choose between strength and materials test controllers with user friendly testing software products that all provide repeatable and reproducible results for simple to sophisticated testing requirements.



Features and Benefits

- Two test space design makes changing between tension and compression testing safer and more efficient – no need to remove heavy fixtures
- Open-front grip design improves operator safety and throughput, and allows a limited number of jaw faces to cover a large range of specimen sizes
- Longest test stroke accommodates a variety of test fixtures and applications
- Suited for Stranded Wire testing
- Choose from the economical strength software packages to more sophisticated materials test controllers which all feature powerful, user-friendly engineering test software.
- Complete with external hydraulic power supply unit.

Accessories

- In-Head Grip Jaws/Faces - Flat, Round
- Bend/Flex and Shear Fixtures
- Compression Platens - Plane and Self-Aligning
- Extensometers, Deflectometers
- Interlocked Safety Enclosures
- Furnaces

Standards

- ASTM A370 Tensile and Bend/Flex of Metals
- ASTM A615 Tensile Test of Rebar
- ASTM C39 Compression Test of Concrete
- ASTM C99 Modulus of Rupture of Stone
- ASTM C109 Compression of Concrete
- ASTM C880 Flexural Bend test of Stone
- ASTM E8 Tensile Test of Metals
- ASTM E9 Compression test of Metals
- ASTM E290 & E190 Guided Bend Test of Metals
- ASTM F606 Fastener Tension Tests
- ASTM A931 Tension Testing of Wire Ropes and Strand
- ASTM A1061 Testing Multi-Wire Steel Prestressing Strand
- ISO 7438 Bend Testing of Metals
- ISO 6892-1 Tensile Testing of Metals
- ISO 15630-1 Test Methods for Rebar
- JIS Z2241 Tensile Testing of Metals
- JIS Z2248 Bend Testing of Metals



600 Series
PowerPack

600 Series Servohydraulic Test Machine

Specifications

Model	610	611	612
Load Capacity	300 kN (67500 lbf)	600 kN (135,000 lbf)	1000 kN (225,000 lbf)
Load Accuracy	±0.5% from 1% to 100% Full Scale	±0.5% from 1% to 100% Full Scale	±0.5% from 1% to 100% Full Scale
Encoder Resolution	0.0004 in (0.01 mm)	0.0004 in (0.01 mm)	0.0004 in (0.01 mm)
Actuator Stroke	150 mm (6 in)	200 mm (8 in)	200 mm (8 in)
Maximum Actuator Speed	76 mm/min (3 in/min)	76 mm/min (3 in/min)	50 mm/min (2 in/min)
Load Frame Column Spacing	435 mm (17.1 in)	570 mm (22.4 in)	600 mm (23.6 in)
Tensile Daylight Space	620 mm (24.4 in)	690 mm (27.1 in)	630 mm (24.8 in)*
Compression Daylight Space	550 mm (21.6 in)	620 mm (24.4 in)	530 mm (20.8 in)*
Crosshead Adjustment Speed	125 mm/min (5 in/min)	125 mm/min (5 in/min)	125 mm/min (5 in/min)
Grip Type	Hydraulic	Hydraulic	Hydraulic
Flat Inserts Sample Thickness	To 15 mm (0.60 in)	To 30 mm (1.25 in)	To 40 mm (1.58 in)
Flat Insert Sample Width	To 75 mm (2.9 in)	To 80 mm (3.1 in)	To 80 mm (3.1 in)
V-Inserts Sample Diameter	6 to 20 mm (0.24 to 0.78 in)	13 to 40 mm (0.60 to 1.58 in)	14 to 45 mm (0.65 to 1.75 in)
Compression Platen	170 mm (6.7 in x 6.7 in)	170 mm (6.7 in x 6.7 in)	170 mm (6.7 in x 6.7 in)
Bend/Flex Fixtures	Optional	Optional	Optional
Load Frame Dimension (LxWxH)	720x440x2040 mm (28.4x17.5x75.6 in)	950x630x2265 mm (37x27x90 in)	980x650x2220 mm (39x27x88 in)
Approximate Frame Weight	2000 kg	2500 kg	3300 kg
Pump Footprint (LxWxH)	610x940x1150 mm (24x37x45 in)	610x940x1150 mm (24x37x45 in)	610x940x1300 mm (24x37x51 in)
Motor Power	2.2 kW	2.2 kW	3.7 kW

* Extended column lengths available to increase test space

Note: Specifications are subject to change at any time without notice.

Contact us to request a quote and confirm specifications

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