

SHFM Series Testing Systems



SERVO-CONTROLLED HYDRAULIC FLOOR MODEL

Universal testing machines for today's high capacity applications require sturdy load frames along with computer data acquisition and control capabilities. The fully-accessorized UNITED SHFM Series Testers include a complement of support hardware and accessories to immediately commence testing for tensile or compressive strength as well as bend and flex testing. Load cells are standard equipment for SHFM Series machines. United SHFM Series Test Systems are

available in capacities from 300kN to 2,000 kN (67,500 Lbf to 450,000 Lbf). By incorporating proven hardware plus USB-connectivity for high speed data acquisition and control, the SHFM Series takes full advantage of our extensive library of Windows®-based test methods. These test methods generate test results that are fully compliant with internationally recognized standards such as ASTM, ISO, EN, JIS, DIN and BS.

SHFM Series Load Frame Specifications

| | SHFM-300KN | SHFM-600KN | SHFM-1000KN | SHFM-2000KN |
|---------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Capacity (kN) | 300 | 600 | 1,000 | 2,000 |
| Capacity (Lbf) | 67,500 | 135,000 | 225,000 | 450,000 |
| Load Accuracy (2% to 100% Capacity) | +/- 0.5% | +/- 0.5% | +/- 0.5% | +/- 0.5% |
| Load Measurement | Load Cell | Load Cell | Load Cell | Load Cell |
| Encoder Resolution | 0.0005 mm (0.00002in) | 0.0005 mm (0.00002in) | 0.0005 mm (0.00002in) | 0.0005 mm (0.00002in) |
| Maximum Ram Stroke (mm) | 250 | 250 | 250 | 250 |
| Adjustable Test Space Height | | | | |
| Adjustment Speed (mm/min) | 300 | 300 | 200 | 100 |
| Maximum Test Space (mm) | 700 | 700 | 700 | 1,100 |
| Max Compression Space (mm) | 630 | 360 | 680 | 850 |
| Width of Test Space Between Cols | 440 | 480 | 570 | 750 |
| Maximum Ram Speed (mm/min) | 125 | 125 | 125 | 125 |
| Grip Type | Hydraulic | Hydraulic | Hydraulic | Hydraulic |
| Flat Inserts, Max Sample Size (mm) | 0 - 25 | 0 - 30 | 0 - 40 | 0 - 60 |
| "V" Inserts, Max Sample Dia (mm) | 12 - 38 | 13 - 40 | 20 - 60 | 30 - 80 |
| Insert Dimensions (mm) | 90 H x 90 W | 90 H x 90 W | 110 H x 110 W | 160 H x 160 W |
| Compression Plate Diameter (mm) | 120 | 120 | 150 | 200 |
| Bend/Flex Fixture Span (mm) | 350 | 600 | 300 | 800 |
| Bend/Flex Support & Nose Width (mm) | 140 | 140 | 140 | 140 |
| Max Bend Displacement (mm) | 100 | 100 | 100 | 100 |
| Load Frame Dimension (L x W x H) (mm) | 750 x 580 x 2,050 | 770 x 600 x 2,100 | 900 x 670 x 2,350 | 1,300 x 900 x 3,530 |
| Weight in Kg (Lb) | | | | |
| Load Frame | 1,100 (2,400) | 1,200 (2,600) | 1,850 (3,700) | 4,500 (9,800) |
| Hydraulic Control Unit | 265 (580) | 265 (580) | 265 (580) | 265 (580) |
| Computer and Monitor | 16 (36) | 16 (36) | 16 (36) | 16 (36) |

Specifications subject to change without notice

Standard Accessories



- Intel Pentium IV PC
- Hydraulic Grips
- Flat Inserts
- "V"-type Inserts
- Bend/Flex Fixture
- Compression Plates



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