

# 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
<b>Adjustable Test Space Height</b>				
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
<b>Weight in Kg (Lb)</b>				
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



- DELL/HP Intel Cor i5 PC
- Hydraulic Grips
- Flat Inserts
- "V"-type Inserts
- Bend/Flex Fixture
- Compression Plates



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