

LLOYD INSTRUMENTS™

SH-F Series

Floor Mounted Servo Hydraulic Dynamic Testing Machine

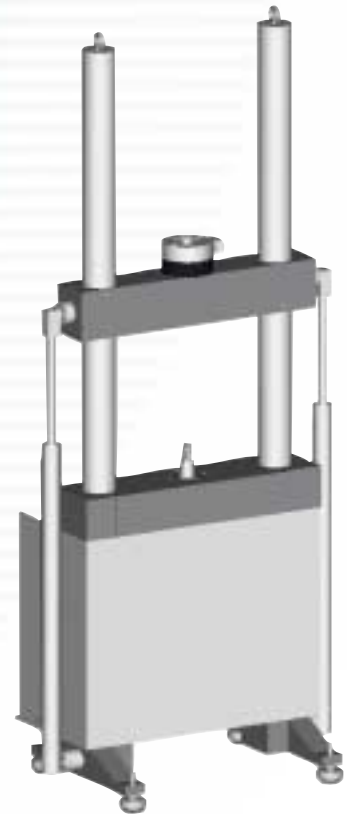
The SH-F series Servo Hydraulic Floor Mounted Testing machine offers highly efficient, rapid and reliable testing. The system is capable of performing rigorous fatigue tests at up to 70 Hz at full load. The machine consists of a sliding, fully adjustable crosshead which is clamped by pinch bolts to twin chromed solid steel columns. Optional side lifting rams are available for automatic crosshead adjustment. The crosshead is set prior to testing and can accommodate samples of varying dimensions. A dynamically rated actuator is mounted to the cross head, available in various force capacities and stroke for optimum dynamic response. A specially designed, highly accurate loadcell is fixed to the crosshead. The sample is secured between the solid base and actuator rod by a comprehensive range of grips, jigs and fixtures. The system is controlled by a personal computer (not included), using specialist MICROSOFT WINDOWS® compatible testing software, and also contains its own embedded RISC processor and digital controller ensuring tests run smoothly even in the event of computer failure or disconnection. Integral safety features include an adjustable safety collar to prevent the crosshead from slipping when adjusted, emergency cut-off switch and an optional splinter shield.

Features

- Efficient, responsive servo grade hydraulic actuator, specified for optimum dynamic response
- 100kN Frame with twin solid steel, chromed columns designed for tension, compression and flexure tests
- High speed testing, up to 70 Hz as standard
- Fatigue rated loadcell with sideload and torque resistance
- Integral loadcell amplifier with high signal to noise ratio
- Integral displacement transducer working directly on rear end of actuator rod
- Digital controller with an embedded RISC processor providing operational stability
- Safety features including crosshead stopping collar, optional splinter shield and emergency isolator switch
- Extensive range of grips and fixtures
- Full Computer integration with WINDOWS® compatible control and data acquisition software

Specifications

Standard Force Range	SH-F 25 - 25 kN (5620 lbf) SH-F 50 - 50 kN (11240 lbf) SH-F 100 - 100 kN (22480 lbf)
Stroke	25 mm (1.0 in) 50 mm (2.0 in) 100 mm (4.0 in)
Hydraulic Supply	210 bar
Standard Column Length	2200 mm (86 in)
Maximum Working Width	500 mm (20 in)
Maximum Working Length	1100 mm (43 in)
Dynamic Frequency	From static up to 70 Hz (standard)
Data Outputs	Digital - RS232
Standards	Meets all common fatigue testing standards within constraints of machine capacity
Software	NEXYGEN™ Data Analysis Software Dynamic Testing Software
Supply Voltage	115/230 V ac ± 10% 50 - 60 Hz
Operating Temp	5° to 35°C (40°F to 95°F)
Warranty:	1 Year



SPECIFICATION
SS-MT-6262-0301
March 2001

www.ametek.com
www.chatillon.com
www.lloyd-instruments.co.uk

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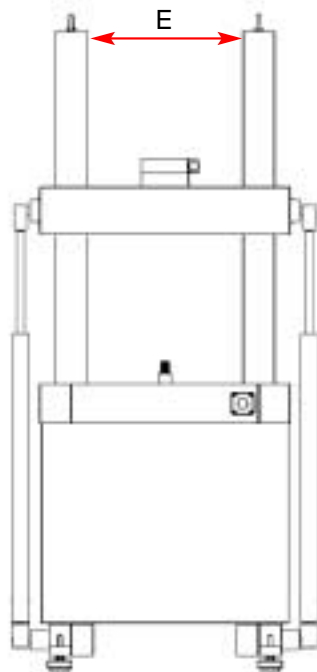
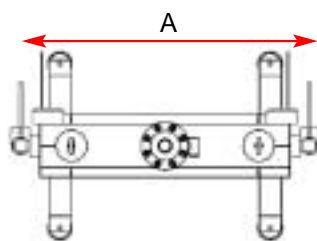
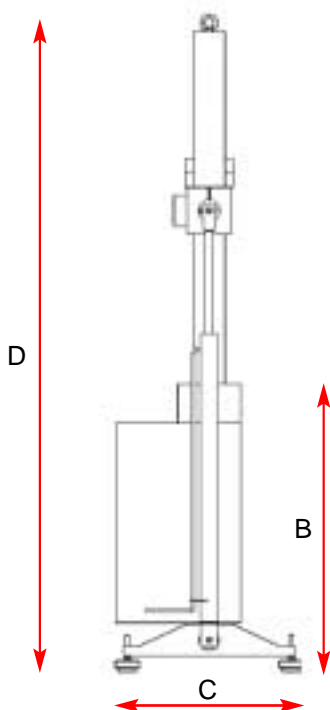
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Ordering Information

Model	Part No.	Description
SH-F 25	01/3004	25 kN (5620 lbf) 25mm (1.0 in) stroke Servo Pneumatic Bench Top System
SH-F 25	01/3005	25 kN (5620 lbf) 50mm (2.0 in) stroke Servo Pneumatic Bench Top System
SH-F 25	01/3006	25 kN (5620 lbf) 100mm (4.0 in) stroke Servo Pneumatic Bench Top System
SH-F 50	01/3007	50 kN (11240 lbf) 25mm (1.0 in)stroke Servo Pneumatic Bench Top System
SH-F 50	01/3008	50 kN (11240 lbf) 50mm (2.0 in)stroke Servo Pneumatic Bench Top System
SH-F 50	01/3009	50 kN (11240 lbf) 100mm (4.0 in)stroke Servo Pneumatic Bench Top System
SH-F 100	01/3010	100 kN (22480 lbf) 25mm (1.0 in)stroke Servo Pneumatic Bench Top System
SH-F 100	01/3011	100 kN (22480 lbf) 50mm (2.0 in)stroke Servo Pneumatic Bench Top System
SH-F 100	01/3012	100 kN (22480 lbf) 100mm (4.0 in)stroke Servo Pneumatic Bench Top System

Product Dimensions

	mm	in
A	800	31
B	920	36
C	603	24
D	2250	89
E	500	20
F	900	35



Standard Accessories

Item	Part No.
SOFTWARE:	
WINDOWS® Compatible Dynamic test software (supplied)	
NEXYGEN™ Software Package	40/0658
ONDIO Application Builder (Use With NEXYGEN)	40/0683
NEXYGEN/ONDIO Software Suite	40/0695

GRIPS & FIXTURES:

All grips up to a capacity of 100 kN (22480 lbf) can be fitted.
 5/8 in adaptor (supplied)
 1 1/4 in adaptor (supplied)

Safety Shield	01/3013
Woods Melt Pot	01/3070
Hydraulic Side Lifting Rams	01/3036

AMETEK
 TEST AND CALIBRATION INSTRUMENTS

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UK
 Lloyd Instruments Ltd
 Forum House
 12 Barnes Wallis Road
 Segensworth East, Fareham
 Hampshire, PO15 5TT
 UK
 Tel: +44 (0)1489 486 399
 Fax: +44 (0)1489 885 118

America
 AMETEK TCI Division
 8600 Somerset Drive
 Largo
 Florida 33773
 USA
 Tel: +1 (727) 536 7831
 Fax: +1(727) 539 6882

Far East
 Lloyd Instruments
 Far East Representative Office
 No7 Sherwood Place
 Alexander Heights
 6064 Perth
 WESTERN AUSTRALIA
 Tel: +61 8 9343 5725
 Fax: +61 8 9343 5723

France
 Lloyd Instruments SA
 3 avenue des Coudriers
 Zone d'activite de l'observatoire
 78180 Montigny-Le-Bretonneux
 FRANCE
 Tel: +33 (1) 30 57 47 74
 Fax: +33 (1) 30 57 50 33

Germany
 AMETEK Precision Instruments
 Europe GmbH
 Rudolf-Diesel-Straße 16
 D-40670 Meerbusch
 GERMANY
 Tel: +49 (0)2159 9136-70
 Fax: +49 (0)2159 9136-80

email: general@lloyd-instruments.co.uk
 www.lloyd-instruments.co.uk

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ISO 9001
 Manufacturer