

## Servo-hydraulic Universal Fatigue Testing Machine | HDT Type A

### Capacity

10kN, 25kN

### Functions

HDT Series is mainly for dynamic features test of non-metal and composite material test under room temperature.

Testing machine can realize the sinusoidal wave, triangular wave, square wave, half sinusoidal wave, half cosine wave, half triangular wave, half square wave and so on.

Tension-tension, tension-compression, compression-compression, low-cycle fatigue, high-cycle fatigue and other test.

### Standards

GB/T 2611-2007, GB/T16825.1-2008, GB/T 16826-2008, JB/T 8612-1997, JB9397—2002 other similar standard.



### Load frame

The closed Machine loading frame is consists of dual column, moving crosshead, T-shape working table.

Compact structure, high stiffness and fast response.

### Hydraulic servo actuator

Employs servo actuator, Moog servo valve, high accurate load cell (Interface), displacement sensor (MTS) as the whole system.

Composative base can shorten the loading chain, and add the frame stiffness.

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Test frequency: 0.1-20Hz

Max. Linear velocity: ≥150mm/s

Remark: Q=20 L/min

Frequency Hz	0.10	0.20	0.50	1.00	2.00	5.00	10.00	20.00
Magnitude mm	50.00	50.00	50.00	30.00	15.0	6.10	3.00	1.50

## Load cell

- USA Interface brand
- Capacity: 25kN
- Linearity: ±0.1%
- Overload: 150%

## Specifications

Model	HDT254A
Capacity	25kN
Accuracy class	1
Column quantity	4
Force range	2%-100%FS, 0.5kN-25kN
Force accuracy	Better than ±0.5% of reading
Load resolution	1/250000
Displacement measurement range	0-100mm(±50)
Displacement measurement accuracy	0.001mm
Test frequency	0.1-20Hz
Wave type	sinusoidal wave, triangular wave, square wave, half sinusoidal wave and customized wave
Max. tension space (excluding grips)	500mm
Effective width	400mm
Frame dimension (L×W×H)	550×550×1750mm
Net weight	750kg
Power supply	Three phase five lines, 380V±10%, 50Hz, confirm with final customer.

## Doli Controller

Variable system, control and measuring clock pulse of 10 kHz

64 Bit internal data processing

10μs synchronous system clock

24 Bit A/D converter

Analog resolution of +/- 250,000 increments

Modularly expandable

Compatible interfaces and intelligent sensor connectors

Available as table-top housing or control cabinet housing

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## EDCI Software

DOLI has developed a unique concept of interaction between hardware and software. The API as well as the configuration and setup program have been completely revised, extended and improved.



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