

Servo-hydraulic Universal Testing Machine | HUT Type A

Load Frame Configuration:

4 or 6 column, servo-controlled hydraulic

Capacity:

300kN, 600kN, 1000kN, 2000kN, 3000kN

Test Space:

Dual zone (tension on top, compression on bottom)

Typical specimens:

Fasteners, rebar, chain, welds, castings

Frame

1. Lead screw driven crosshead to adjust the test space
2. High-Stiffness 6-column load frame design incorporates 3-position crosshead, adjustable specimen positioning, precision guide columns, thick crosshead and base beam minimizes load frame stored energy while producing reliable, stable, accurate load, strain and modulus values.
3. Ergonomically designed load frames ensure safety, reduce operator fatigue, and provide the highest level of flexibility.
4. Standard Dual Zone Test Space for reducing setup time
5. "Quick Return" hydraulic valve for higher throughput
6. Automatic limit checking for crosshead position, overload, over temperature, over voltage, etc.
7. The system can return automatically, the oil cylinder can return the original position via manual or automatically after finishing testing
8. Positive specimen holding is ensured by the wedge action of hydraulic operated grips
9. Imported encoder mounted on the seat is for position measurement of crosshead with high accuracy
10. Imported servo valve provides high stability and reliability



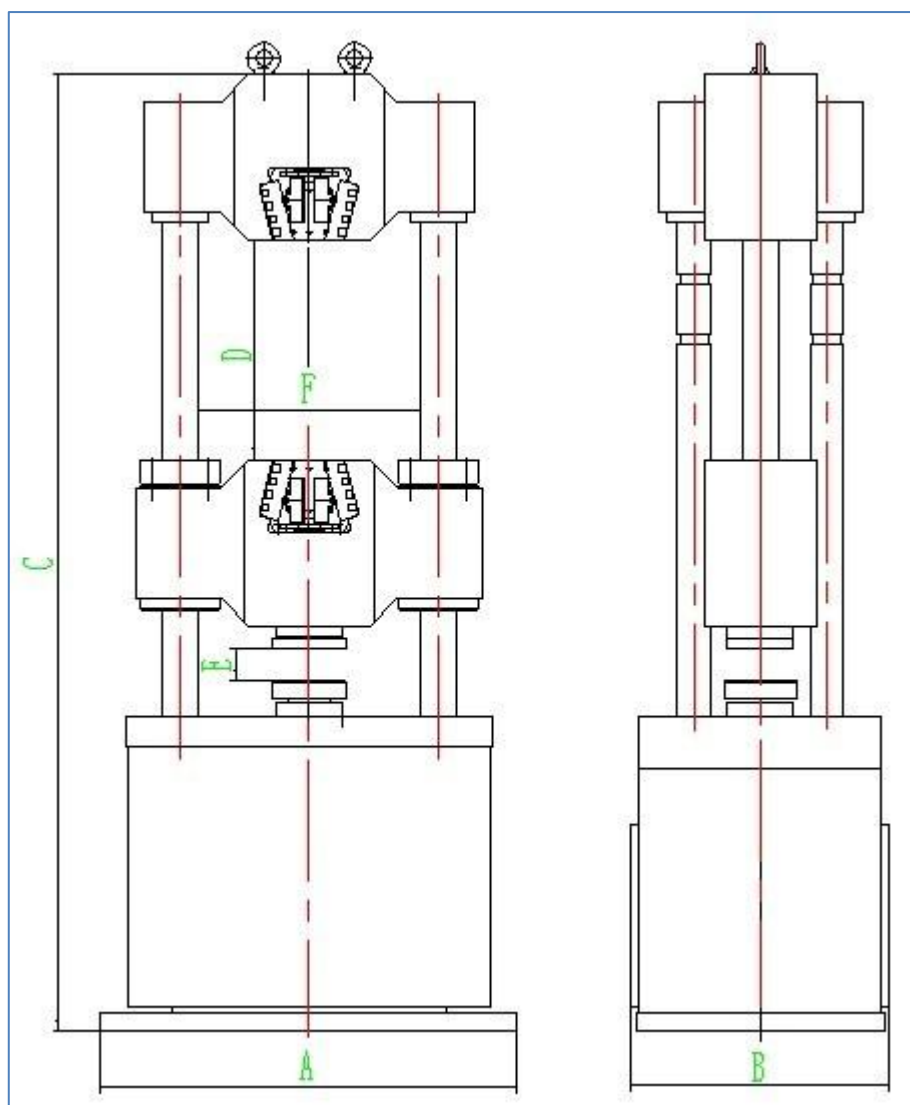
Load cell

1. Use strain gauge load cell technology to measure the force being applied to specimen. The load cell is located in the lower grip and is used to directly measure tensile force.
2. High precise load cell measures and captures sensitively tension and compression force, high accuracy load measurement resolution reaches 1/500000 with no steps.
3. Famous brand load cell ensures high precision and repeatability.

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Frame dimensions

Model	Outside dimension A×B×C (mm)	Tensile space D (mm)	Compression space E (mm)	Test width F (mm)	Piston travel (mm)
HUT305A	820×570×1955	520	520	410	150
HUT605A	940×650×2400	710	700	435	250
HUT106A	1020×670×2600	750	660	450	250
HUT206A	1370×820×3150	900	750	730	250
HUT306A	1320×950×3958	1200	1000	530	300



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Specifications:

Model	HUT305	HUT605	HUT106	HUT206	HUT306
Type	Type A				
Capacity (kN)	300	600	1000	2000	3000
Calibration accuracy	Class 0.5				
Force accuracy	Better than $\pm 0.5\%$				
Force range	1% ~ 100%FS				
Resolution	1/500000FS				
Extension range	1% ~ 100%FS				
Extension accuracy	Better than $\pm 0.5\%$				
Extension resolution	1/500000 of max extension				
Position resolution	0.004mm				
Position accuracy	Better than $\pm 0.5\%$ of reading				
Actuator (piston) stroke (mm)	150	250	250	250	300
Actuator (piston) speed (mm/min)	0 ~ 180	0 ~ 140	0 ~ 90	0 ~ 70	0~100
Middle crosshead speed (mm/min) Only for test space adjustment	350	270	310	360	240
Force loading speed	0.05% ~ 2% FS /s				
Column number	4	6	6	6	6
Column spacing (test space width) (mm)	410	435	450	730	530
Maximum tension space (mm)	520	710	750	900	1200
Maximum compression space (mm)	520	700	660	750	1000
Diameter of round specimens (mm)	$\Phi 10 \sim \Phi 20$ $\Phi 20 \sim \Phi 32$	$\Phi 10 \sim \Phi 21$ $\Phi 21 \sim \Phi 31$ $\Phi 31 \sim \Phi 40$	$\Phi 12 \sim \Phi 23$ $\Phi 23 \sim \Phi 35$ $\Phi 35 \sim \Phi 45$ $\Phi 45 \sim \Phi 55$	$\Phi 15 \sim \Phi 30$ $\Phi 30 \sim \Phi 55$ $\Phi 55 \sim \Phi 70$	$\Phi 30 \sim \Phi 70$ $\Phi 70 \sim \Phi 110$
Thickness of flat specimens (mm)	2 ~ 13 13 ~ 25	2 ~ 16 16 ~ 30	2 ~ 20 20 ~ 40	10 ~ 40 40 ~ 70	10~60 60~100mm
Compression platens (mm)	$\Phi 120$	$\Phi 150$	200x200	$\Phi 240$	$\Phi 280$
Frame dimension (length × width × height) (mm)	820x570x1955	940x650x2400	1020x670x2600	1370x820x3150	1320x950x3958
Hydraulic Power Unit dimension (length × width × height) (mm)	1150×600×900				1150×630×1000
Hydraulic Power Unit weight (kg)	300				400
HPU flow rate (L/min)	5	5	5	7.2	12
Power consumption (kW)	2.5	3.5	4	6	6

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Power supply	3-phase, 5-line, AC380V, 50Hz				
Frame weight (kg)	1500	2500	3500	6800	10220

Standard configurations:

Name		Description	Quantity
Main machine	Load frame	Dual space, class 1	1 set
	Load cell	built-in the load frame	1 set
	Displacement encoder		1 set
	Motor and speed reducer		1 set
HPU	Oil tank		1 set
	Pump		1 set
	Servo Valve		1 set
	Valve manifold		1 set
	Cooling fan		1 set
	High pressure oil hoses		4 sets
Grips & Fixtures	Compression fixture		1 pair
	Hydraulic wedge action tensile grip		1 pair
Controller		Model: DTC-500	1 set
Software		Testpilot, English version	1 set
Accessories	Maintenance tools	inner hexagon spanner 1 set Phillips screwdriver 1 set Open spanner 1 set	1 set
	Operation & Maintenance manual		1 set
	Software manual		1 set
	Warranty card		1 set
	Quality Certificate		1 set

Prepared by customer:

- The anti-wear hydraulic oil (N46, 75L) shall be purchased by customer at local market.
- The foundation work must be finished before UTM delivered 14 days.
- Computer and printer should be prepared by customer



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