

SERVO HYDRAULIC UNIVERSAL TESTING MACHINE

Product Code: EKE UTM.SH

Servo valve is located in the heart of servo hydraulic Materials Testing System. Operating logic of the servo hydraulic system is, hydraulic pump send the pressurized oil to servo valve. Control unit send command to servo valve to release the oil to system, only as required.

In these systems a very high load is also accessible. Load range is as; 400kN, 600kN, 800kN, 1000kN, 1500kN, and 2000kN. On special orders load could reach to a very high value.

Consists of, four columns rigid frame without welding and very quite working hydraulic unit. Different sizes of samples could be tested due to a wide range in dimensions. Minimum piston stroke is 500mm on this frame.

Jaws system is hydraulic which could be v type or other according to test requirements. A remote control allows controlling of sample insertion in jaws and accurate positioning. Such operations are quite, easy and time saving for operator.

Position and elongation, controlled by SSI type position sensor located inside the piston with 1 μ m resolution in a precise way.

Load measurement and control is also very sensitive. Load cells used in our system are of class $\pm 0.5\%$ and the electronic control unit with resolution of $\pm 180,000$ steps gives a step ahead to our machines from ISO-7500-1 standard and guarantee class ± 0.5 .

Model	EKE UTM.SH - 400S	EKE UTM.SH - 600S	EKE UTM.SH - 1000S	EKE UTM.SH - 2000S
Maximum Load Capacity (kN)	300/400	500/600	1000	1500/2000
Accuracy of Testing Load (%)	± 0.5	± 0.5	± 0.5	± 0.5
Accuracy of Deformation (%)	± 0.5	± 0.5	± 0.5	± 0.5
Maximum Tensile Space (mm)	600	610	700	720
Max. Compression Space (mm)	300	300	450	500
Actuator Stroke (mm)	500	500	500	600
Max. Loading Speed (mm/min)	100	100	75	50
Distance Between Columns (mm)	520	600x330	660x450	800x450
Round Specimen (mm) \varnothing	5-30	13-40	20-60	20-80
Flat Specimen (mm)	0-15	0-30	0-40	0-60
Compression Platens (mm)	120	150	150/204x204	200/204x204
Dimensions of Load Frame (mm)	880x630x2980	880x630x2980	980x720x3530	1220x880x4180
Weight (kg)	2500	3000	5000	8000

