

UNIVERSAL TESTING MACHINE

BSPIL-SOM-AI-UTM(I)



Application:

Universal Testing Machine is designed for testing metals and other materials under tension, compression bending, transverse and shear loads. Hardness test on metals can also be conducted.

Principle of Operation:

Operation of the machine is by hydraulic transmission of load from the test specimen to a separately housed load indicator. The system is ideal since it replaces transmission of load through levers and knife edges, which are prone to wear and damage due to shock on rupture of test pieces.

COMPUTREISED UNIVERSAL TESTING MACHINE

BSPIL-SOM-AI-UTM

APPLICATION:

BSPIL Universal Testing Machine is designed to perform tensile, compression, bending and shear tests on most widely varying materials, both in the form of tests pieces and as finished products. Hardness Test on metals can also be performed

INCORPORATES DESIGN FEATURES TO ENABLE

- § High accuracy testing
- § Economy
- § Speed
- § Versatility

Technical specifications:



MODEL	AI-UTM-10	AI-UTM-20	AI-UTM-40	AI-UTM-60	AI-UTM-100	AI-UTM-200	AI-UTM-300
Maximum Capacity (tonne)	10	20	40	60	100	200	300
1 st Measuring Range (tonne)	0-1	0-2	0-4	0-6	0-10	0-20	0-30
Minimum graduation (kgf)	2	4	10	10	20	40	50
2 nd Measuring Range (tonne)	0-2.5	0-5	0-10	0-12	0-25	0-50	0-60
Minimum graduation (kgf)	5	10	25	20	50	100	100
3 rd Measuring Range (tonne)	0-5	0-10	0-20	0-30	0-50	0-100	0-150
Minimum graduations (kgf)	10	20	50	50	100	200	250
4 th Measuring Range (tonne)	0-10	0-20	0-40	0-60	0-100	0-200	0-300
Minimum Graduations (kgf)	20	40	100	100	200	400	500
Clearance for tensile at fully descended working piston (mm)	50-700	50-700	50-700	50-800	50-850	50-900	50-900
Clearance for compression test at fully descended working piston	0-700	0-700	0-700	0-800	0-850	0-900	0-900
Clearance between columns (mm)	500	500	500	600	750	850	850
Ram stroke (mm)	150	200	200	250	250	300	300
Straining/piston speeds (mm/min) (at no load)	0-300	0-150	0-150	0-100	0-80	0-45	0-50
Connected load							
HP	1.5	1.5	2.5	2.5	3.5	6.5	8.5
V	400-440	400-440	400-440	400-440	400-440	400-440	400-440
Ø	3	3	3	3	3	3	3
DIMENSION L x W x H (approx) (mm)	2032x750x1960	2032x750x1960	2060x750x2180	2265x750x2534	2415x815x2900	3000x1200x3600	3500x1900x4550
Weight (approx) (kg)	1500	1500	2500	3500	5500	12500	22000
standard accessories							
For Tension Test							
Clamping jaws for round specimen diameter (mm)	10-20 20-30	10-20 20-30	10-25 25-40	10-25 25-40, 40-55	10-25 25-45, 45-70	20-40 40-60, 60-80	25-50 50-70, 70-90
Clamping jaws for flat specimen thickness (mm)/width	0-10 10-20,50	0-10 10-20,50	0-15 15-30,65	0-15 15-30,70	0-22 22-44,44-65,70	0-20 20-45,45-70,90	0-25 25-50,50-75,100
For Compression test							
Pair of compression plates of diameter (mm)	120	120	120	120	160	220	220
For Transverse test							
Table with adjustable rollers width of rollers (mm)	160	160	160	160	160	200	200
Diameter of rollers (mm)	30	30	30	50	50	70	70
Maximum clearance between supports	500	500	500	600	800	900	1000
Radius of punch tips (mm)	6.12	6.12	12.16	16.22	16.22	30.40	50.75

MARKETED BY



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