

Autograph AGS-J

Shimadzu
Table-top Type Universal Tester



Specifications

1. Model *1	AGS-20NJ	AGS-50NJ	AGS-100NJ	AGS-500NJ	AGS-1kNJ	AGS-5kNJ	AGS-10kNJ
2. Capacity	20N	50N	100N	500N	1kN	5kN	10kN
3. Loading method	High-precision constant speed strain control method via non-backlash ball screw drive						
4. Force measurement	Accuracy	±1% max. of indicated value within the range from 1/1 to 1/250 load cell rated capacity. Conforms to ISO7500/1(Class 1),ASTM E4,BS 1610 Grade1,DIN51221 Class1 and JIS B7721 • B7733 Class1					
	Amplification	Continuously adjustable from x 1 to x 250					
	Calibration	Automatic calibration for tensile and compression forces					
5. Crosshead speed range	0.5 to 500mm/min(0.0197 to 20in/min)						
6. Crosshead speed accuracy	±0.5% or ±0.025mm/min(0.001in/min),whichever is greater						
7. Crosshead speed and permitted force	Full speed in rated capacity						
8. Spacing of crosshead and face for mounting jig	Standard type : Max. 1100mm(43.3in) Extension type +250mm(9.8in) : Max.1350mm(53.1in) Extension type +500mm(19.7in) : Max.1600mm(62.9in)						
9. Distance of grip to grip *2	930mm(36.6in) SCG Type	900mm(35.4in) SCG Type	750mm(29.5in) MWG Type 850mm(33.5in) SCG Type		20mm(28.3in) MWG Type		
10. Effective test width	420mm(16.5in)						
11. Crosshead position detection	Measurement by optical encoder. Display resolution : 0.01mm(0.0004in)						
12. Crosshead control	Control for cycle test(repeated tensile/compression test);control for single test; manual control(For fine crosshead positioning)						
13. Standard functions	Automatic detection of specimen breakdown with automatic stop and automatic crosshead return Test parameter file functions Arbitrary setting of crosshead speed Display functions;Select between force value and stress value display Select crosshead stroke display Display peak force,stroke and displacement at breaking point Units of system : N, gf, lbf, mm, inch Selectable RS-232C interface(For data processing software), Analog Out put: 0 to 5V DC						
14. Dimensions and weight	Standard length type:Approx. 660(W)x520(D)x1580(H)mm,80kg(26(W)x20.5(D)x72.0(H)in, 176.4lb) Extension type +250mm(9.8in):Approx. 660(W)x520(D)x1830(H)mm,90kg(26(W)x20.5(D)x72.0(H)in, 198.42lb) Extension type +500mm(19.7in):Approx. 660(W)x520(D)x2080(H)mm, 100kg(26(W)x20.5(D)x81.9(H)in,220.46lb)						
15.Power requirements	Single phase 100/110- 120/220-240V(Selectable) 600VA, Grounding Class D(100Ω less than)						
16. Ambient requirements	Temperature:5-40°C,Humidity:20-80%(No condensation), Source voltage fluctuation:less than ±10%						

*1:Models AGS-20NJ to AGS-10kNJ are supplied with a load cell set of indicated capacity installed on the AGS-J main unit.

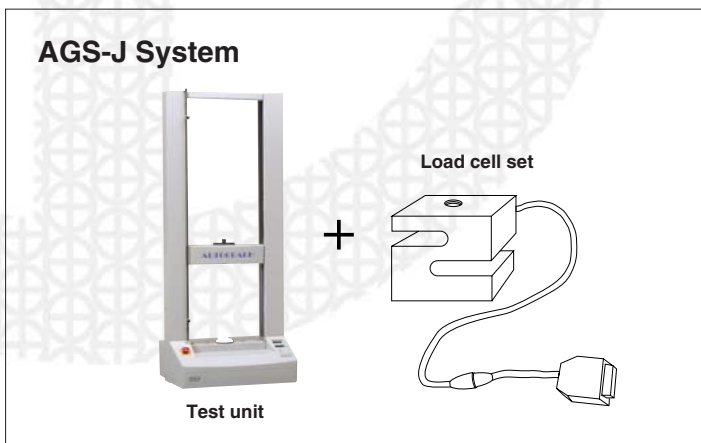
*2:The distance of grip to grip is shown when either MWG-type grip(Non-shift wedge-type grip)or SCG-type grip(Screw-type flat grip) is mounted.

Configurations

The basic Autograph AGS-J System comprises the test unit and a load cell set. Select the appropriate load cell set from the table to the right.

Test unit: Part No. 346-52886-XX

Load cell set: Part No. 346-52872-XX



Test unit

Name	Part No.
AGS-J unit (standard)	346-52886-01
AGS-J unit (Extension type +250mm(9.8in))	346-52886-02
AGS-J unit (Extension type +500mm(19.7in))	346-52886-03

Modification for downward tensile testing (reinforced yoke)

Name	Part No.
AGS-J unit (reinforced yoke modification)	346-52821

Load cell set

Capacity	Load cell set Part No.-XX	Cell bolt Part No.
10kN	346-52872-10	345-06363-03
5kN	346-52872-09	345-06363-04
1kN	346-52872-08	
500N	346-52872-07	
100N	346-52872-05	345-09114
50N	346-52872-04	
20N	346-52872-03	
10N	346-52872-02	
5N	346-52872-01	