

Specifications

	SIGMA LITE	SIGMA	SIGMA W12	SIGMA MAG	SIGMA L	SIGMA HF
FORCE SENSORS						
Revolving Measurement Unit (RMU) max. 6 sensors up to (kgf)	100	200	10	200	200	●
Single Measurement Unit (SMU) 1 sensor up to (kgf)	100	200	10	200	200	1000
STAGES						
	SIGMA LITE	SIGMA	SIGMA W12	SIGMA MAG	SIGMA L	SIGMA HF
X-stage (mm)	168	370	500	600	500	500
Y-stage (mm)	168	168	370	168	500	500
Z-stage (mm)	168	168	90	168	200	200
Axis speed (mm/s)	5	50	50	50	500	500
Resolution linear encoders (backlash free drives) (nm)	30	30	30	30	10	10
Digital temperature correction	●	●	●	●	●	●
ACCURACY						
Accuracy (%)	0.2	0.075	0.075	0.075	0.075	1
ADC resolution (bit)	16	24	24	24	24	24
Sampling frequency (kHz)	2	10	10	10	10	10
Shear height (step back) accuracy ±1 μm	●	●	●	●	●	●
Programmable landing force down to 5 gf	●	●	●	●	●	●
1° sensor rotation resolution	●	●	●	●	●	●
Tool rotation accuracy ±10 μm (including software down to ±5 μm)	●	●	●	●	●	●
ACCESSORIES						
High resolution cameras	3	3	3	3	3	●
Head mounted cameras (no tool-camera-offset)	●	●	●	●	●	5
Ergonomic SEMI S2 safety cabinet	●	●	●	●	●	●
Blower and vacuum tool cleaning unit	●	●	●	●	●	●
CBP Jaw Cleaner (contactless)	●	●	●	●	●	●
SOFTWARE						
Supports Microsoft Windows	●	●	●	●	●	●
Easy to learn intuitive graphical user interface	●	●	●	●	●	●
Minimum number of mouse clicks	●	●	●	●	●	●
Customizable screens	●	●	●	●	●	●
Integrated report editor and data export	●	●	●	●	●	●
Easy data sorting, grouping and filtering	●	●	●	●	●	●
Integrated SPC and system GR&R analysis	●	●	●	●	●	●
Multiple languages, multiple user network environment	●	●	●	●	●	●
Export to XLS, DOC, PPT, PDF, XPS, CSV, XML, DBF, KLARF, INF, et cetera	●	●	●	●	●	●
SECS/GEM*	●	●	●	●	●	●
SERVICES						
Correlation with other bond testers	●	●	●	●	●	●
Ergonomic layout to SEMI S8	●	●	●	●	●	●
CE + EMC compliant	●	●	●	●	●	●
ISO9001, ISO13485 and ISO14001 certified production	●	●	●	●	●	●
Calibration jigs and weights (OIMI class M1 or NIST class 1)	●	●	●	●	●	●
1 Phase 100-240VAC 1+N+PE 45-64Hz 5A	●	●	●	●	●	●
3 Phase 207-528VAC 3+N+PE 50-60Hz 8A	●	●	●	●	●	●
Compressed air required	●	●	●	●	●	●
MECHANICAL						
Footprint X (mm)	620	620	1300	1800	1200	1200
Footprint Y (mm)	558	558	935	900	1200	1200
Height (mm)	608	608	608	1100	2500	2500
Weight (± kg)	80	80	100	160	1350	1350

Please contact us for more information and options for your factory. Specifications are subject to change without prior notice.

- Standard
- Optional
- Not available