

FS Series Shock Test System

Shock



The FS series is specialized in high performance shock tests designed for developing air bag sensors.

The reliability of the sensor to be incorporated into an air bag system needs to be extremely sensitive in its nature. To succeed in controlling the characteristics of each sensor, the test system itself must be highly reliable and accurate. The outstanding response characteristics and control technology of an electrodynamic actuator allows success in manufacturing the test system that can meet the above requirements. We have a large selection of shock test systems depending on your application such as development, inspection in-production line and head-on and flank crash simulation.



FS Series Specifications

Model		FS-1022/05	FS-1240B/13	FS-1040B/19	FS-2078B/29	FS-3055B/15	
Configuration	Shock Generator	905-SH/10	912-SH/12	922-SH/10	922-SH/20H	922-SH/30	
	Power Amplifier	369A-0503-S05	369A-0907-1/S	369A-0906-1/S	369A-0909-3/S	369A-0907-2/S	
	Control System	271-C	271-C	271-C	271-C	271-C	
Rating	Shock Force	kN _{0-p} (kgf _{0-p})	4.9 (500)	13.72 (1400)	19.62 (2000)	29.43 (3000)	15.69 (1600)
	Maximum Acceleration	m/s ²	608(62G) at 2kg load	980(100G) at 5kg load	980(100G) at 10kg load	2451(250G) at 2kg load	980(100G) at 5kg load
	Maximum Displacement	mm _{0-p}	100	120	100	200	300
	Maximum Velocity	m/s	±2.2	±4.0	±4.0	±7.8	±5.5
	Maximum Velocity Change	m/s	4.4	6	6	10	7
	Power Consumption	kVA	9	30	33	97	50
	Maximum Payload	kg	10	10	10	10	10
Shock Generator	Moving Element	kg	6(including table)	9(including table)	10(including table)	10(including table)	11(including table)
	Table Dimensions	mm	250W×280D	250W×280D	200W×200D	200W×200D	200W×200D
	Table Screw	mm	36-M6 depth9	36-M6 depth9	16-M6 depth9	16-M8 depth8	16-M6 depth9
	Outline Dimensions	mm	620W×920D×610H	760W×1200D×810H	900W×1260D×930H	900W×1460D×950H	900W×1660D×990H
	Mass	kg	450	860	1470	1680	1900
Power Amplifier	Outline Dimensions	mm	630W×891D×1912H	1220W×956D×2150H	1830W×956D×2150H	2440W×956D×2150H	1830W×956D×2150H
	Mass	kg	390	1000	1500	2500	1500

Model		FS-3050B/22	FS-3093B/30H	FS-5080/16	FS-60160/20	
Configuration	Shock Generator	922-SH/30	922-SH/30H	950-SH	960-SH	
	Power Amplifier	369A-0907-2/S	369A-0908-4/S	369A-0907-2/S	369A-0907-3/S	
	Control System	271-C	271-C	271-C	271-C	
Rating	Shock Force	kN _{0-p} (kgf _{0-p})	22.07 (2250)	29 (2957)	15.69 (1600)	19.61 (2000)
	Maximum Acceleration	m/s ²	1470(150G) at 4kg load	1870(190G) at 4kg load	980(100G) at 2kg load	980(100G) at 2kg load
	Maximum Displacement	mm _{0-p}	300	300	500	600
	Maximum Velocity	m/s	±5.0	±9.3	±6.0	±10.0
	Maximum Velocity Change	m/s	6	16	8	16
	Power Consumption	kVA	56	115	64	100
	Maximum Payload	kg	10	5	5	5
Shock Generator	Moving Element	kg	11(including table)	11.5(including table)	14(including table)	18(including table)
	Table Dimensions	mm	200W×200D	200W×200D	200W×200D	200W×200D
	Table Screw	mm	16-M6 depth9	16-M8 depth8	16-M6 depth9	16-M6 depth9
	Outline Dimensions	mm	900W×1660D×990H	900W×1660D×990H	1180W×2446D×1215H	1180W×2469D×1215H
	Mass	kg	1900	1900	3400	3520
Power Amplifier	Outline Dimensions	mm	1830W×956D×2150H	3660W×956D×2150H	1830W×956D×2150H	2444W×975D×1956H
	Mass	kg	1500	3000	1500	2900