

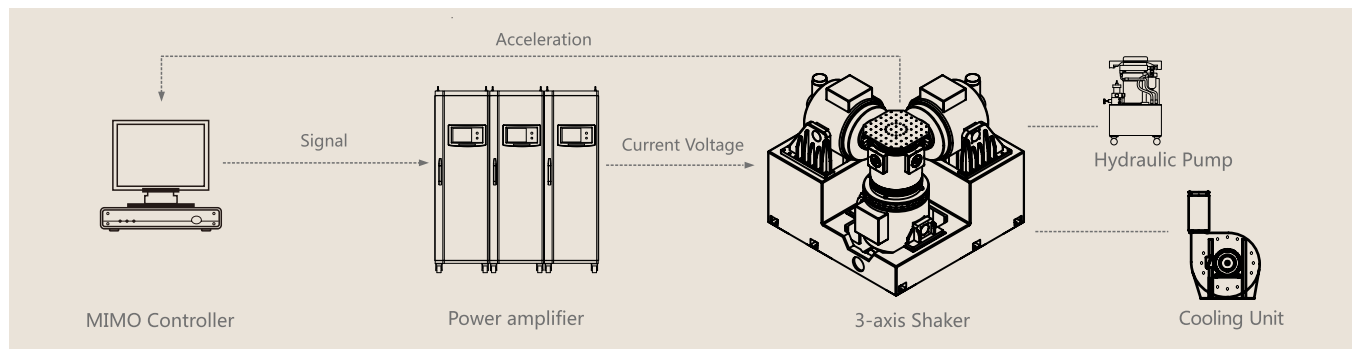
Tri-axis Electro-dynamic Vibration Test System

Description

Tri-axis testing system can more realistically simulate the dynamic environment in practical use, and improve the over-test and short test of complex performance, the laboratory evaluation result is getting much better, but for single shaker cannot reproduce the malfunction mode.

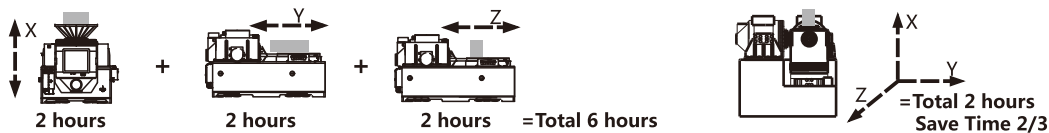


Working Principle

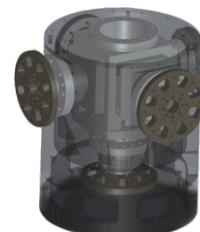


Main Features

- Minimize the test time: three axis can reduce testing time, shorter time than single axis.



- Reproduction reality environment: Three axis shaker simulate reality dynamic environment more realistically than single shaker can does.
- Interlock protection device: Safety design when any malfunction among any one of the shaker, the two shakers will be stopped, this way can protect specimen and shaker.
- Applicable to use in high frequency range: the useable frequency is increased up to 2000Hz or more by using the three-axis shaker to offer a better choice for engineering and research.
- Orthogonal Coupling Bearing Unit(OCBU)**
 - Use high pressure, and loading of hydrostatic bearing is high, no metal contact.
 - The structure of Pre-tightening stiffness.
 - Optimized Coupling structure by using optimize FEA to ensure low mode.
 - Foundry integrated round shape supporting.
 - Optimized throttle hole distribution to ensure the transmit of force, oil film surface has enough stiffness and durability.



Technical Data

System specs System Model	Table Size(mm)	Rated Force		Max. Vel(m/s)
		Sine(kN)	Random(kN)	
3ES-10-HF Series	Ø400,500,600,800	10	10	1.2
3ES-20-HF Series	Ø400,500,600,800	20	20	1.2
3ES-30-HF Series	Ø400,500,600,800	30	30	1.2
3ES-40-HF Series	Ø400,500,600,800	40	40	1.2
3ES-50-HF Series	Ø400,500,600,800,1000,1200	50	50	1.2
3ES-60-HF Series	Ø400,500,600,800,1000,1200	60	60	1.2
3ES-80-HF Series	Ø400,500,600,800,1000,1200	80	80	1.2
3ES-120-HF Series	Ø400,500,600,800,1000,1200	120	120	1.2
3ES-160-HF Series	Ø400,500,600,800,1000,1200	160	160	1.2
3ES-200-HF Series	Ø400,500,600,800,1000,1200	200	200	1.2

Remark: More technical requirements you can consult from us

Performance curve

