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Children Bed Comprehensive Tester TNJ-001A-Factory Manufacturer-Hust Tony



Product Introduction

Children bed comprehensive tester is mainly used for crib comprehensive performance test.

This machine is mainly used for crib comprehensive performance test, including: mattress support system downwards static load test, fence downwards static load test, mattress support system impact test, fence strength testing, fence spindle / Slat static load testing.

Technical Parameters

	Name	Function	Brand	Specification	
	PLC	Programmable Controllers	Siemens		
Electric Parameter	4AD module/4DA module	Digital-to-analog conversion input/output	Siemens		
	Control System	Execute automatic control program	HUST TONY		
	Force sensor	Real-time force detection	Hua Lanhai	High-precision force sensor, real- time acquisition of force value signal	
	computer	Monitoring and parameter setting	Lenovo	<u> </u>	
	Loading Cylinder	provide load capacity	AirTAC		
	Cylinder Magnetic Switch	Provide limit protection	AirTAC		
	Proportional Valve	Control cylinder output pressure	SMC		
	Silencer	Eliminates the noise of cylinder exhaust	SMC		
	Encoder Displacement			Accuracy ±0.5mm	
	Counter			0~99999 times (can be set)	
		2500*2500*2000mm(Can be customized according to customer requirements or product size)			
		Long:300mm1950	0mm		
	Measurable sample size / minimum and	Width:300mm1950mm			
	maximum	High:100mm1200mm			
		Can be customized for you			
	Power Supply	AC 220V 10A 50Hz			
Product	Gas Source	6kgf/cm ² or above stable air source			
Parameter	Instrument Weight	About: 1200kg			
	Package	Wooden case			
	Shipping Requirements	Due to its large size, this device needs to be disassembled for transportation and needs to be reassembled at the place of use			
	TNJ-J09 4.5 impactor,		1 Set		
Standard	TNJ-J07 2 Loading page	ds	1 Set		
	Wire		1 Pcs		
Configuration	Inner hexagon tools		1 Set		
	Operating manual		1 Pcs		

Name	Function	Brand	Remark
PLC	programmable control unit(PCU)	mitsubishi	
4AD Module	Digital analog quantity conversion input	mitsubishi	
4D Aodule	Digital analog volume conversion output	mitsubishi	
Two-Channel Control System	Execute automatic control program	HUST TONY	
Force Value Sensor	Real-time force detection	Hua Lanhai	
Touch Screen	Monitoring and parameter setting	Weilun	
Cylinder	Provide load force	AirTAC	
Cylinder magnetic Switch	Provide limit protection	AirTAC	
Proportional Valve	Control cylinder output pressure	SMC	
Silencer	Eliminates the noise of cylinder exhaust	SMC	
Switching Power Supply	Provide control circuit voltage	MEAN WELL	
Breaker	Power-off protection in case of short circuit	Chint	

Features

Main Electrical Components

- 1. High-resolution digital controller; closed-loop control. The output end of the cylinder is equipped with a fatigue-grade tension and pressure sensor, and the air pressure control of the cylinder is controlled by an imported SMC gas-electric proportional valve, and the output force of the cylinder can be controlled through the touch screen input; to achieve high-precision testing.
- **2.** With real-time force-time curve display.
- 3. The frame structure design is adopted, and the frame is made of customized thickened aluminum profiles, which is beautiful and generous. All cylinder groups are moved by sliding, which can be operated by one person without any tool assistance. The frame adjustment part adopts pulley structure and guide rail plus bearing design, which can easily and conveniently adjust the loading position to adapt to different specifications of samples and improve work efficiency.
- **4.** The fixed block at the bottom and the portable magnet can adjust the position at will to adapt to samples of different specifications.
- **5.** The loading pad is detachable, which can be easily replaced with different loading pads to meet different test requirements
- **6.** Various test items can be realized by moving the combined cylinder combination unit. All channels can be set to independent or joint action mode, and all channels are set with independent setting boxes.
- 7. The PLC controller is used to control the movement of the instrument, and the operation is intuitive and simple. The force value adjustment uses a precision SMC proportional valve to adjust the air pressure to change the loading force value.

- **8.** Equipped with a high-precision force sensor to sense the force value instantly, each loading group is individually adjusted and controlled, and the loading force value is stable and reliable.
- **9.** After a sudden power failure or artificial shutdown, turn on the power again or restart it, and continue to run according to the parameters set before the power failure, so as to ensure the continuity and stability of the test and avoid loss of test data.
- **10.** The interface is easy to operate and easy to use.
- 11. The instrument has cylinder stroke limit protection function and sensor force value protection function. Cylinder stroke limit protection function.
- 12. The electric lifting device is used to carry out different angle load tests on samples of various heights
- 13. Our equipment is controlled by computer, mobile phone control, Internet control, and real-time video monitoring
- 14. The operating software comes with a test standard program that meets the requirements, and can be upgraded remotely; the test process can be monitored by no one, and the fault can be automatically alarmed, and the fault can be removed remotely; the remote operation interface of the mobile phone can view the surveillance camera and the safe environment of the laboratory site
- 15. Multifunctional interface control software, which can control and monitor multiple devices.
- 16. The control software needs to save the test data of the instrument to the database, which can permanently save and query the historical test data.
- 17. The laboratory management system can be connected to the computer database on the equipment to facilitate the management of laboratory equipment and data query and filing.
- **18.**When no one is in the laboratory, you can enter the device operating system to operate the device through the computer website, QR code, mobile APP, WeChat.
- 19. If the same operating system is compatible and incorporated into one site to operate the device.

Standards:

ASTM F1821 16CFR PART 1217