

## KW-BSE-18

国标家具万能测试架

Universal Test Filed for Table, Chair...Unit

### 1 设备外观图示

执行GB 10357 全套测试，12只气缸，全闭环控制

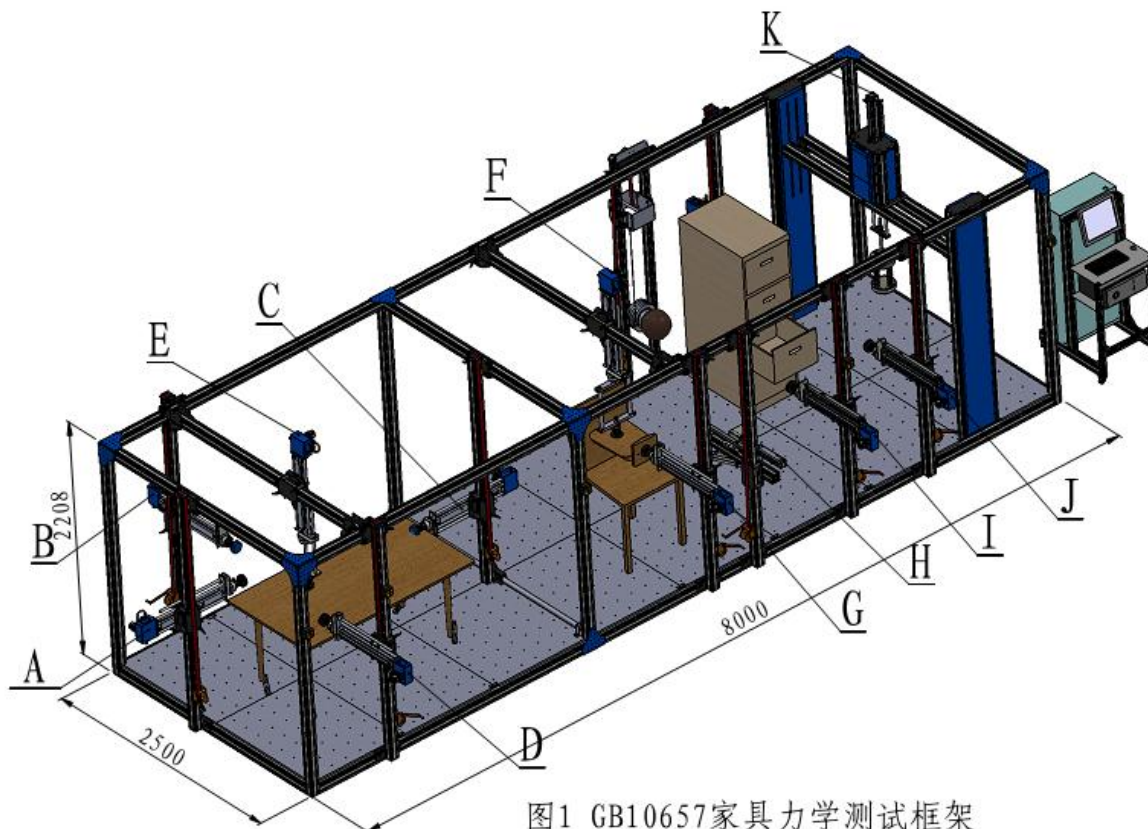


图1 GB10657家具力学测试框架

#### 1.1 Functional Component Description:

Serial number	Component Name	Test Items	Move Mode	Instruction
A	Cylinder+Force sensor+Gas-electric proportional valve	1.Control cylinder output force ; 2. Can do tables, beds, chairs and othealternating fatigue test and strength test;	Moved up and down(with self-lock function)slide right and left freely, rotate freely	The cylinder can be realized to the turn of the orderly action.
B			Slide right and left freely, can be moved up and down	
C			Moved up and down(with self-lock function)slide right and left freely, rotate freely	
D				
E				
F				
G				

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<b>H</b>	Cylinder+Pinion and rack+Encoder	90 degrees to open the door durability testing	Moved up and down(with self-lock function)slide right and left freely	Independent control
<b>I</b>	Cylinder+Displacement sensor	Durability Testing of drawer	Moved up and down(with self-lock function)slide right and left freely , move before and after	
<b>J</b>	Cylinder+Displacement sensor	Sliding doors durability testing		
<b>K</b>	Cylinder+Displacement sensor+Electromagnet	Free Fall	Electric floating up and down	

**1.2 Main parts parameters:**

Name	Function	Mode No	Brand	Original
Computer	Input output data	扬天 M6600d	Lenovo	Made In China
PLC	Control	S7	西门子	Germany
Cylinder	Motive power	DNC	FESTO	Germany
Electromagn-etic valve	Control out-force direction	VUVY-F	FESTO	Germany
Gas-electric proportional valve	Control the output force	ITV2050-312L	SMC	Japan
Displacement sensor	Control the out-distance	PRT	KTC	Britain
Force sensor	Control the out-force	H2A7-G1-500KG-5B	中航电测	Made In China

**1.3 Attachment list:**

NO.	Mode NO	Name	Quantity	Material
1	KW-BSE-01	Seat Loading Pad	1	Hardwood
2	KW-BSE-02	Seat Loading Pad	1	Glass steel
3	KW-BSE-03	Small seat loading pad	1	Hardwood
4	KW-BSE-04	Local Loading	8	Nylon,dia of 100mm
5	KW-BSE-05	Back loding pad	2	Hardwood
6	KW-BSE-06	Arm loading Device	2	Aluminum
7	KW-BFM-05	Impacter hammer	1	For details see standard
8	KW-BSE-07	Basketball impact	1	For details see standard
9	KW-BSE-11	Impacter	1	For details see standard
10		Baffle plate	10	Aluminum
11		Table loading pad	8	Nylon,dia of 50mm

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KW-BSE-11  
座面冲击器



KW-BSE-05  
靠背加载垫



KW-BSE-04  
直径100毫米加载



万向节



KW-BSE-01  
座面加载垫（硬木）



KW-BSE-02  
座面加载垫（玻璃钢）



KW-BSE-03  
直径200毫米加载垫

## 2. Technical:

Structure characteristic	1.Multi-Function, Multi-porpose testing.
	2.12 groups cylinder , 6 groups Control the output force,3 groups control the out-distance.
	3 Air cylinder can be moved up and down(with self-lock function, fit one operator to run it), slide right and left freely, move before and after(Max distance 500mm), rotate freely( Max angle 90 degree, can expand to 360 degree).
	4.Top air cylinder can move before and after.
	5.Each air cylinder assembled Touch screen and PLC, can control the out-force type or the out-distance type.
	6.Aluminum frame, stainless steel test platform.
Parameter	1.Output force: more than 150 kgf.
	2.Using Test platform size:L8m,W2.5m,H2.2m.
	3.20 rpm per min for Air cylinder Cyclic rate.
Control System	Out-force control system: Strictly closed-loop. Force sensor to collect force signals through the PLC control the gas-electric proportional valve control cylinder.
	Out-distance control system:Displacement sensor to collect the cylinder displacement through the PLC control electromagnetic valve, to control the cylinder moves.
Field of application	<b>GB 10357</b>

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Main Parts	Name	Function	Mode No	Brand	Original
	Computer	Input/ output date	扬天 M6600d	联想	Made In China
	PLC	Control	S7	西门子	Germany
	Cylinder	Power	DNC	FESTO	Germany
	Electroma- gnetic valve	Control out- force direction	VUVY-F	FESTO	Germany
	Gas-electric proportio-nal valve	Control the out-force	ITV2050-312L	SMC	Japan
	Displacem-ent sensor	Control the cylinder out- distance	PRT	KTC	Britain
	Power sensor	Control the cylinder out- force	H2A7-G1- 500KG-5B	中航电测	Made In China
Power	220VAC 10A				
Gas Source	AP: ≥ 0.6MPa; FR: ≥ 5000L/min, filtering water, drying treatment.				
Installation and transportation	Size	L8000mm,W2500mm,H2200mm			
	Weight	4200kg			

**Kingwells**

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