Slip Table Series

Typical Applications

Electro-dynamic vibration shaker can be equipped with the slip table to achieve threedimensional vibration test. The overall load capacity can be improved thanks to the smaller carrier (table) weight of the slip table, to be able to support the load with a larger size and greater weight. The slip table can be divided into the integrated type and split type based on connection way, and into the GT, BT and TBT series based on guiding way respectively, with LT series available for V-shaped guiding way, with BT series for hydrostatic guideway guiding way and with TBT series for medium-pressure rail guiding way.

The vibration system equipping with the slip table can carry out the X, Y and Z-direction vibration tests for parts or entire machine respectively, also matching with the temperature and humidity test chamber to form an integrated environmental testing system.

Area and thickness of sliding plate determine the quality of the active system, and also affect the upper limit of frequency of the table. The following listed table indicators are available for our company's standard products, with special customization allowed. Available standard: JB / T 6869-93.

Integrated Design

Integrated type refers to that the slip table and vibration shaker are designed into a whole and share one base, featuring with good stiffness and easy installation and commissioning. The integrated table has been obtained national patent, no base requirement.



Integrated slip table



Hydrostatic bearing



Medium-pressure bearing



Slender slip table





Dual slip table



Rotary slip table



Rotary slip table

BT Series - Hydrostatic Bearing Guide

The hydrostatic bearing slip table consists of the horizontal table, hydrostatic guideway, connectors, granite slab, slip table base, and independent hydrostatic oil source. Hydrostatic guideway can provide the higher resistance to overturning moment, suitable for testing large-load specimen. The more number of the hydrostatic guideways is, the resistance to overturning moment is greater.

TBT Series — Medium-pressure Bearing Guide

Medium-pressure rail slip table consists of horizontal table, medium-pressure rail, connectors, slip table base and independent medium-pressure oil source. Medium-pressure rail has the excellent dynamic performance and each bearing has its own set of feedback system, featuring with excellent parallel operation performance and simple assembly process, easy to meet the high performance requirements (optional for 800X800 slip table and

Easy to Operate

Unique trunnion and guide bearing can make the horizontal and vertical switching easily implemented, for the vibration shaker with above medium thrust, the electric power steering unit is adopted to make the switching easier.

Slip Table Series

Hydrostatic Bearing Slip Table

Thickness (mm) Frequency (Hz) Effective mass (aluminum/magnesium) (kg)	ES-30-370 ES-40-370		ES-40-445 ES-50-445 ES-60-445		ES-100-550		ES-160-590 ES-180-590		ES-200-650		ES-350-870	
BT800 (800 X 800)	50	2000	50	2000	50	2000	50	2000	_	_		
		7/75	112			5/100	163,					
BT900 (900 X 900)	50	2000	50	2000	50	2000	50	2000			_	
B1900 (900 X 900)	132	132/91 137/96 162/117		189/144								
BT1000 (1000 X 1000)	50	2000	50	2000	50	2000	50	2000				
B11000 (1000 X 1000)	159/109		164/114		190/136		217/163		_			
BT1100 (1100 X 1100)	50	2000	50	2000	50	2000	50	2000	_		_	
B11100 (1100 X 1100)	188	/129	193,	/134	221	L/157	248,	/184				
PET 000 (1000 V 1000)	50	2000	50	2000	50	2000	50	2000	50	2000		
BT1200 (1200 X 1200)	221	/151	226,	/156	255	5/179	282,	/206	282	/206	_	
	50	2000	50	2000	50	2000	50	2000	50	2000		
BT1300 (1300 X 1300)	256	/174	261,	/179	291	L/204	318,	/231	318	/231	_	
	50	1600	50	1600	50	1600	50	1600	50	1600		
BT1400 (1400 X 1400)	294/199		299/204		331/230		358/257		358/257		_	
	50	1200	50	1200	50	1200	50	1200	50	1200	50	1200
BT1500 (1500 X 1500)	334/226		339/231		372/258		399/285		399/285		534/420	
					60	1000	60	1000	60	1000	60	1000
BT2000 (2000 X 2000)	_		_		773/525		800/552		800/552		935/687	
Work environment	Temperature range 5~35°C, humidity range ≤90% (non condensing)											
Note	Effective mass includes slip plate, drive bar, swing pole. Above effective mass exclude armature and bearing (the effective mass of one BT hydrostatic bearing is Skg)											

Medium-pressure Bearing Slip Table

Thickness (mm) Frequency (Hz)	ES-30-370 ES-40-370		ES-40-445 ES-50-445 ES-60-445		ES-100-550		ES-160-590 ES-180-590		ES-200-650		ES-350-870	
Effective mass (aluminum/magnesium) (kg)												
TBT800 (800 X 800)	50	2000	50	2000	50	2000	50	2000				
1B1800 (800 X 800)	107	7/75	11.	2/80	136/100		163/127					
TBT900 (900 X 900)	50 2000		50	2000	50	2000	50	2000				
1B1900 (900 X 900)	132/91		137/96		162/117		189/144		_			
TBT1000 (1000 X 1000)	50	2000	50	2000	50	2000	50	2000				
IB11000 (1000 X 1000)	159	/109	164/114		190/136		217/163					
TDT1100 (1100 V 1100)	50	2000	50	2000	50	2000	50	2000				
TBT1100 (1100 X 1100)	188/129 193/134		/134	221/157 248/184		/184	_					
TBT1200 (1200 X 1200)	50	2000	50	2000	50	2000	50	2000	50	2000		
	221	/151	226	/156	25	5/179	282	/206	282	2/206	_	
TBT1300 (1300 X 1300)	50	2000	50	2000	50	2000	50	2000	50	2000		
	256	/174	261	/179	29:	1/204	318	/231	318	3/231		
	50	1600	50	1600	50	1600	50	1600	50	1600		
TBT1400 (1400 X 1400)	294/199		299/204		331/230		358/257		358/257			
	50	1200	50	1200	50	1200	50	1200	50	1200	50	1200
TBT1500 (1500 X 1500)	334/226		339/231		372/258		399/285		399/285		534/420	
						1000	60	1000	60	1000	60	1000
TBT2000 (2000 X 2000)			773/525		800/552		800/552		935/687			
Work environment	Temperature range 5~35°C, humidity range ≤90% (non condensing)											
Note	Effective mass includes slip plate, drive bar, swing pole. Above effective mass exclude armature and bearing (the effective mass of one TBT medium pressure bearing is 5.5kg)											

Head Expander Series









Square (aluminium alloy)

Square (magnesium alloy)

Round (aluminium alloy)

Round (magnesium alloy)

Many types of standardized head expanders can be supplied and special customization is allowed, to meet the expansion needs of the vibration shaker. In actual vibration test, specimen or fixture is often larger than the electro-dynamic shaker armature table, so the original table shall be extended, with a common method to install an auxiliary table. The more stringent requirement is needed for extending table on the working frequency, table weight, table acceleration, amplitude uniformity and lateral movement. HE series head expander has passed the finite element modal analysis, to ensue the product quality from the structure, materials and manufacturing process etc. aspects.

Technical Characteristics

- · All head expanders of Dongling company have passed the finite element analysis, with optimization treatment done for structure.
- High-quality manufacturing process ensures the stable performance and good technical
- Standard series head expanders are supplied to choose, with shape (round or square) or material (aluminum or magnesium) optional.

Square head expander specification										
Table diameter	-150	-200	-230 -240	-320	-370	-445/480	-550	-590		
HE300S	7	8	10	_	_	_	Effective mass (kg) Upper limit frequency (Hz)			
HESOUS	2000	2000	2000							
HE400S	12	13	21	_	_		_			
HE4003	2000	2000	2000							
HE500S	20	23	32	32	33		_	_		
HE3003	2000	2000 37	2000	2000	2000					
HE600S	29		38	40	40	53	_	_		
HEOOUS	1200	1300	1300	2000	2000	2000				
HE700S	_	_	43	60	80	80	_	_		
			1000	2000	2000	2000				
HE800S	_	_	60	70	80	85	125	135		
HE8005	HE8005		1000	1200	1300	1300	1800	1800		
HE900S	_	_	80	95	95	100	120	120		
			700	800	1000	1000	1000	1000		
HE1000S	_		73	100	110	185	200	210		
			400	600	800	1000	1000	1200		
HE1100S	_		_		_	230	245	160		
						500	700	700		
	Effective mass (kg)		_	_	_	250	265	280		
HE1200S Upper limit frequency (Hz		equency (Hz)				400	500	500		
HE1500S	_	_	_	_	_	350	400	420		
						400	400	400		
							900	1000		
HE2000S	_	_				_	300	300		