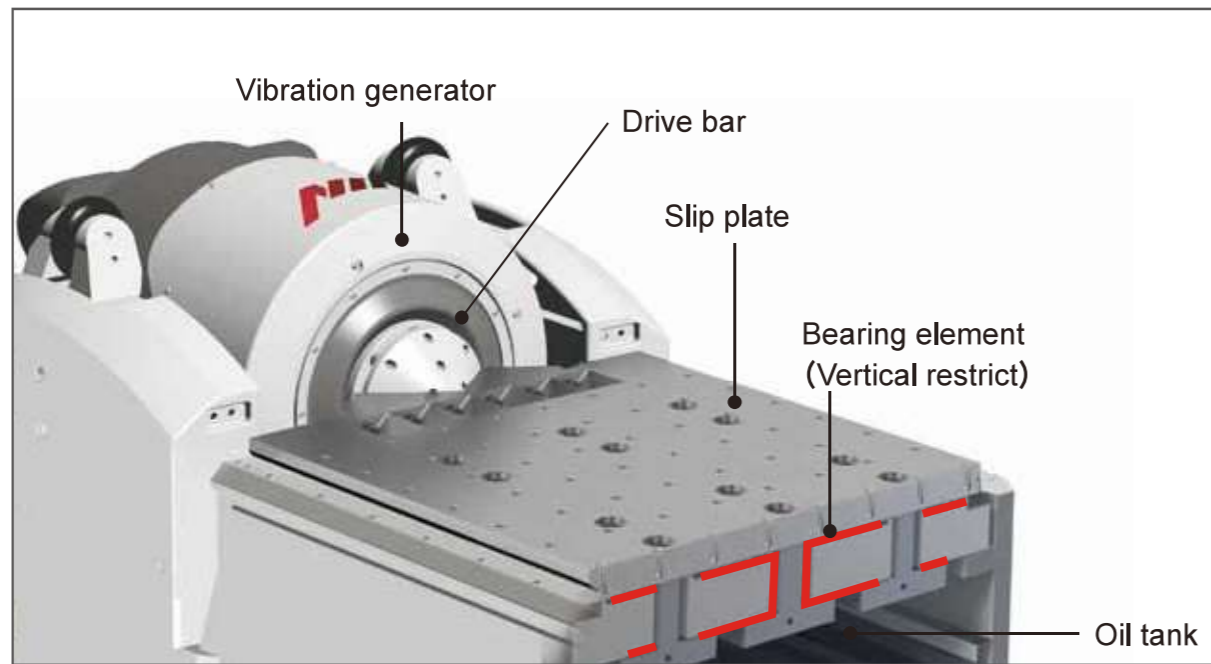


# TH : Hydrostatic Bearing & Oil Film

Newly developed hydrostatic and hydraulic bearing realizes the following features.

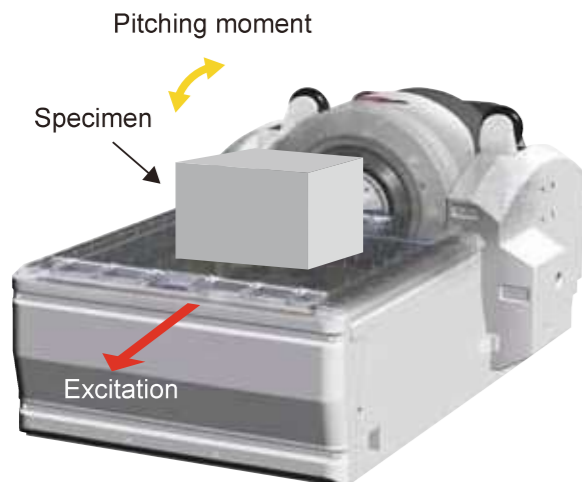
- High moment resistance
- Low cross-axis acceleration
- Low distortion
- No requirement for a separate hydraulic unit
- Smaller system installation space

## ■ Bearing structure



## ■ Moment resistance performance

New type slip table can achieve high moment resistance only by built-in hydraulic unit. As compared to our conventional systems, high quality system of reasonable and high rigidity can be provided.



	Bearing method	Slip table model	Allowable eccentric moment (kN · m)
New	TH bearing <small>(new hydrostatic hydraulic bearing)</small>	TBH-10TH <small>(size 1m x 1m)</small>	42.5
Conventional	TT bearing <small>(high pressure : external hydraulic unit)</small>	TBH-10 <small>(size 1m x 1m)</small>	7.7
	TT bearing <small>(low pressure : interrenal hydraulic unit)</small>	TBH-10 <small>(size 1m x 1m)</small>	2.2
	Slip table <small>(low pressure : interrenal hydraulic unit)</small>	TBH-10 <small>(size 1m x 1m)</small>	1.3

## Specification TH : Hydrostatic Bearing & Oil Film

Table size (mm)	Table thickness (mm)	Shaker	Moving mass* (kg)	Frequency (Hz)	Static Pitch Moment (N·m)	Dynamic Pitch Moment (N·m)	Maximum load (kg)
550 x 550	50	A10	85	2,000	3,000	6,000	1,500
		A20					
		A30					
		A45	-	-	-	-	
		A65					
750 x 750	50	A10	159	2,000	33,000	66,000	9,000
		A20					
		A30	180	1,250	42,500	85,000	9,000
		A45					
		A65					
950 x 950	50	A10	215	800	42,500	85,000	9,000
		A20					
		A30	236	500	99,000	198,000	9,000
		A45					
		A65					
1150 x 1150	50	A10	298	800	42,500	85,000	9,000
		A20					
		A30	318	500	99,000	198,000	9,000
		A45					
		A65					
1450 x 1450	50	A10	452	500	99,000	198,000	9,000
		A20					
		A30	473	500	99,000	198,000	9,000
		A45					
		A65					

\*The weight is referring the plate made of aluminum.



See the movie on You Tube

