

# FH Series Vibration Testing System

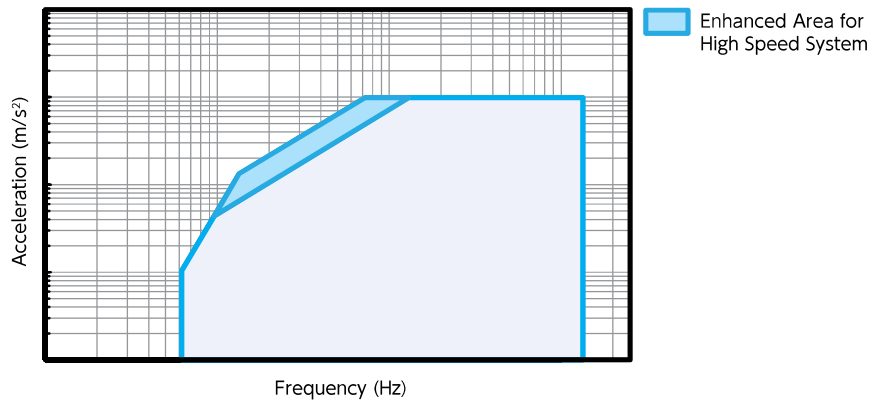
High Speed



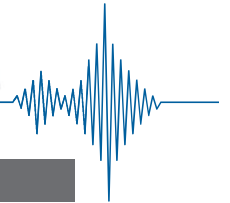
When higher acceleration levels are required, especially around the frequency from 20 to 80 Hz, thus a vibration testing system that can simulate high velocity is necessary. The FH series system is suitable for such test condition.

※The vibration controller is mounted in the console rack. (Optional)

## ■ Comparison of High Speed System with Standard System



※This performance curve is how you look at each system for comparison.



### FH Series Specifications

Model		FH-8K/51S	FH-10K/56	FH-15K/56	FH-08K/56	FH-12K/56	FH-16K/56
Exciting Force	Sine	kN <sub>rms</sub>	8.5	10.0	15.0	8.0	12.0
	Random	kN <sub>rms</sub>	8.5	10.0	15.0	8.0	12.0
	Shock	kN <sub>rms</sub>	17	25	37.5	20	30
Frequency range	Hz	to 3000	to 3000	to 2000	to 3000	to 3000	to 3000
Max. acceleration	m/s <sup>2</sup>	850	667	1000	533	800	1000(★2)
Max. velocity	m/s	2.0	2.0	2.0	2.3	2.3	2.3
Max. displacement	mm <sub>p-p</sub>	51	56	56	56	56	56
Max. payload	kg	350	200(300)(★1)	200(300)(★1)	200(300)(★1)	200(300)(★1)	200(300)(★1)
Input power	kVA	19.5	22.9	25.9	23.5	27.6	31.8
Armature Mass	kg	10.0	15.0	15.0	15.0	15.0	15.0
Allowable offset load	Nm	500	500	500	500	500	500
Cooling method		Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Vibration Generator		S085-AW/LA	916-BW/LA	916-BW/LA	916-AW/LA	916-AW/LA	916-AW/LA
Power Amplifier		369A-0202-085SF	369A-0502-16BW	369A-0503-16BW	369A-0502-16AW	369A-0503-16AW	369A-0504-16AW
Console Rack		CRD-1500-085	CRD-2000-16	CRD-2000-16	CRD-2000-16	CRD-2000-16	CRD-2000-16
Armature Size	mm	φ230	φ230	φ230	φ230	φ230	φ230
Vib. Generator	mm	797Wx775Hx635D	974Wx1035Hx700D	974Wx1035Hx700D	974Wx1035Hx700D	974Wx1035Hx700D	974Wx1035Hx700D
Power Amplifier	mm	554Wx1502Hx814D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D
Blower	mm	411Wx810Hx525D	707Wx1681Hx908D	707Wx1681Hx908D	707Wx1681Hx908D	707Wx1681Hx908D	707Wx1681Hx908D
Vib. Generator	kg	640	1200	1200	1200	1200	1200
Power Amplifier	kg	300	520	520	430	440	520
Blower	kg	60	220	220	220	220	220

Model		FH-22K/60	FH-26K/60	FH-28K/60	FH-33K/60	FH-35K/60	FH-40K/60
Exciting Force	Sine	kN <sub>rms</sub>	22.0	26.0	28.0	33.0	35.0
	Random	kN <sub>rms</sub>	22.0	26.0	28.0	33.0	35.0
	Shock	kN <sub>rms</sub>	55	65	70	82.5	87.5
Frequency range	Hz	to 2500	to 2500	to 2200	to 2200	to 2200	to 2200
Max. acceleration	m/s <sup>2</sup>	846	1000	848	1000	1000(★2)	1000(★2)
Max. velocity	m/s	2.3	2.3	2.0	2.0	2.0	2.0
Max. displacement	mm <sub>p-p</sub>	60	60	60	60	60	60
Max. payload	kg	400(500)(★1)	400(500)(★1)	400(500)(★1)	400(500)(★1)	400(500)(★1)	400(500)(★1)
Input power	kVA	35.9	39.0	45.3	49.6	55.9	64.6
Armature Mass	kg	26.0	26.0	33.0	33.0	33.0	36.0
Allowable offset load	Nm	700	700	900	900	900	900
Cooling method		Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled	Air-cooled
Vibration Generator		926-AW/LA	926-AW/LA	936-AW/LA	936-AW/LA	936-AW/LA	936-AW/LA
Power Amplifier		368A-0503-26AW	368A-0504-26AW	368A-0504-36AW	368A-0505-36AW	368A-0505-36AW	368A-0606-36AW
Console Rack		CRD-2000-26	CRD-2000-26	CRD-2000-36	CRD-2000-36	CRD-2000-36	CRD-2000-36
Armature Size	mm	φ270	φ270	φ330	φ330	φ330	φ330
Vib. Generator	mm	1106Wx1135Hx880D	1106Wx1135Hx880D	1106Wx1135Hx880D	1125Wx1200Hx965D	1125Wx1200Hx965D	1125Wx1200Hx965D
Power Amplifier	mm	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D	554Wx2000Hx1010D
Blower	mm	707Wx1681Hx908D	707Wx1681Hx908D	946Wx1681Hx908D	946Wx1681Hx908D	869Wx1856Hx1094D	869Wx1856Hx1094D
Vib. Generator	kg	2200	2200	2500	3500	3500	3900
Power Amplifier	kg	600	600	600	600	600	600
Blower	kg	220	220	260	245	325	325

Model		FH-43K/60	FH-51K/60	FH-60K/60	
Exciting Force	Sine	kN <sub>rms</sub>	43.0	51.0	60.0
	Random	kN <sub>rms</sub>	43.0	51.0	60.0
	Shock	kN <sub>rms</sub>	107.5	127.5	150
Frequency range	Hz	to 2500	to 2500	to 2500	
Max. acceleration	m/s <sup>2</sup>	632	750	882	
Max. velocity	m/s	1.78	1.78	1.78	
Max. displacement	mm <sub>p-p</sub>	60	60	60	
Max. payload	kg	500	500	500	
Input power	kVA	68.2	72.2	82.6	
Armature Mass	kg	68.0	68.0	68.0	
Allowable offset load	Nm	1200	1200	1200	
Cooling method		Air-cooled	Air-cooled	Air-cooled	
Vibration Generator		960-AW/LA	960-AW/LA	960-AW/LA	
Power Amplifier		368A-1005-60AW	368A-1006-60AW	368A-1007-60AW	
Console Rack		CRD-2000W-60	CRD-2000W-60	CRD-2000W-60	
Armature Size	mm	φ430	φ430	φ430	
Vib. Generator	mm	1452Wx1297Hx1231D	1452Wx1297Hx1231D	1452Wx1297Hx1231D	
Power Amplifier	mm	1108Wx2000Hx1010D	1108Wx2000Hx1010D	1108Wx2000Hx1010D	
Blower	mm	1021Wx2170Hx1149D	1021Wx2170Hx1149D	869Wx2016Hx1147D	
Vib. Generator	kg	5000	5000	5000	
Power Amplifier	kg	700	750	800	
Blower	kg	450	450	450	

※ Input power specification is for 3φ AC200 V 50/60 Hz.

※ Lower limit frequency should be determined by a performance of an available vibration control system.

(★1) We will cope with your instructions.