

ACTIVE ISOLATION SYSTEM

QUIET POD

Small variant

Data sheet

Version 1.0

ETEL

PRODUCT ARCHITECTURE	
Architecture	4x PODs
Isolation type	Active
DOFs - Drive force cancellation	6
Axes name	X, Y, Z, Rx, Ry, Rz
Thrust transmitter: DD (direct drive) or ID (indirect drive)	DD

CONFIGURATION	UNIT	
Control power level	-	Standard = 2x AccurET VHP100 (10/30A)
Motion controller	-	ULTIMET ADVANCED
Static mass range	kg	MS1 from 600 to 800 kg MS2 from 800 to 1000 kg
Rated input voltage	VDC	100
Ambient temperature	°C	22 ± 1

CODIFICATION		Q4S0800NAA0054AE0012AE2AE					
Digit meaning	Q	4	S	800	N	AA0054AE0012AE2AE	
	QUIET	Nb of POD in the kit	Format S = Small	Max. static mass	Cooling N = Natural	Motors and sensors configuration	

POD DIMENSIONAL DATA	UNIT	
Width	mm	330
Length	mm	330
Height	mm	150
Total mass (without payload)	kg	18 to 25 (depending on the configuration)

DYNAMIC PERFORMANCE	UNIT	
Communication with stage controllers	-	Digital / TRANSNET
Drive force compensated axes	-	up to 10
Typical feedforward accuracy	%	From 95 to 99

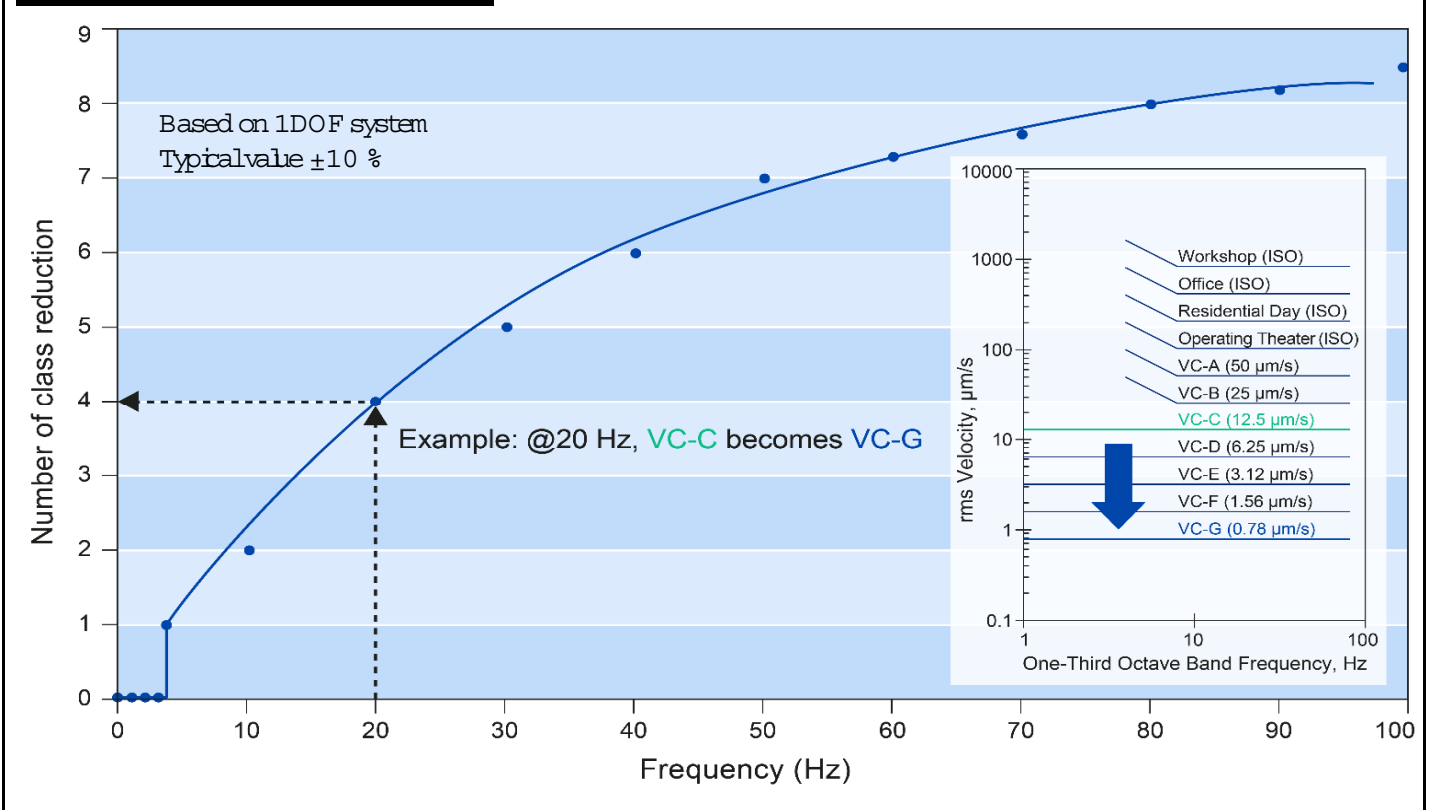
FORCE CAPABILITIES			Part number	Continuous force / peak force (N)	
Codification				In plane (XY directions)	Out of plane (Z direction)
Natural air cooling	Q4S0800N	AA0054AE0012AE2AE	1407962-05	172 / 646	344 / 1292
		AA0054CG0012CG2CG	1407962-08	416 / 1268	832 / 2536
Natural air cooling	Q4S1000N	AA0074AE0032AE2AE	1407962-07	172 / 646	344 / 1292
		AA0074CG0032CG2CG	1407962-06	416 / 1268	832 / 2536

OPTIONS / ACCESSORIES	
Controllers	Control kit or fully populated rack available

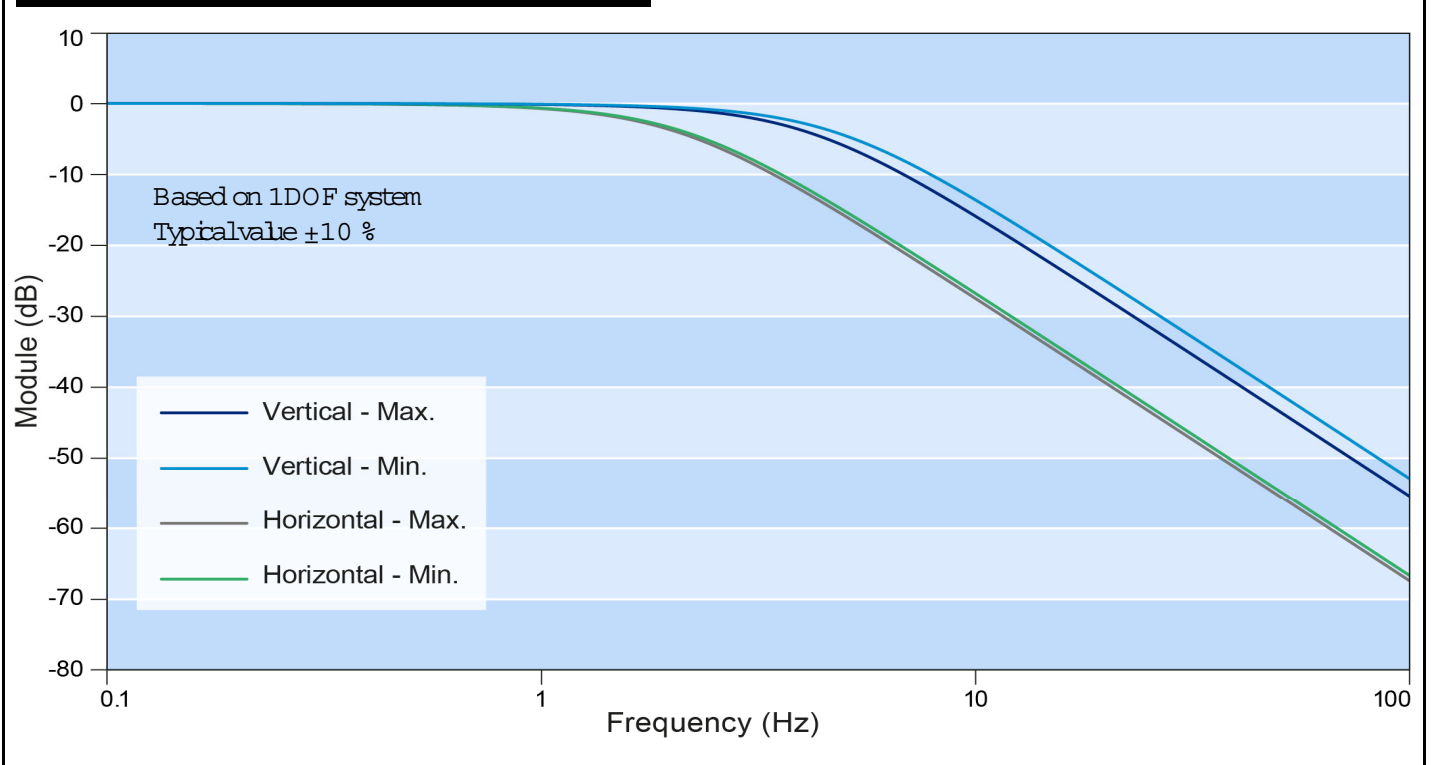
SOFTWARE	
Commissioning tool	QUIET Commissioning tool (QCT) needed for configuration, tuning and diagnosis

Notes: (1) Based on the typical frame value: eigenfrequency > 160 Hz and stiffness of 10⁷ N/m.

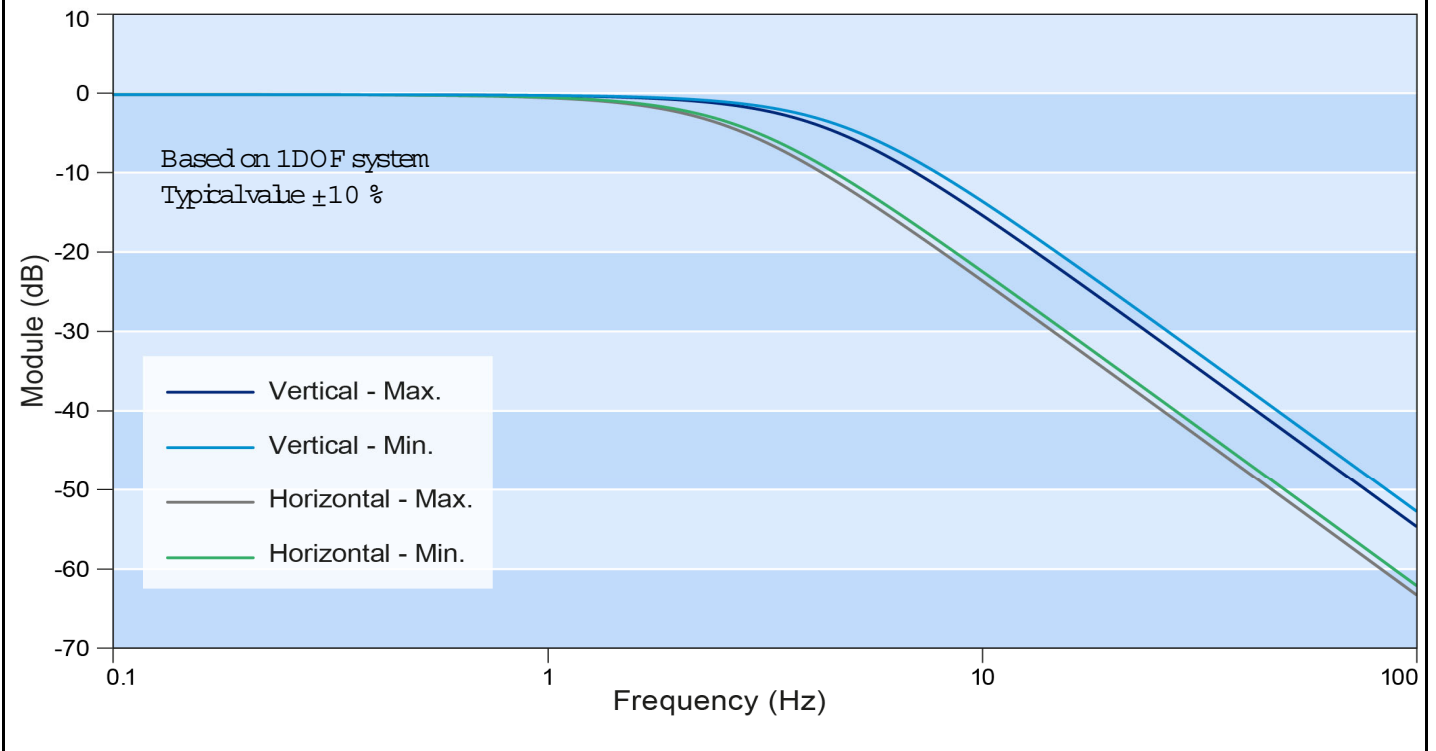
THEORETICAL VC CLASS REDUCTION



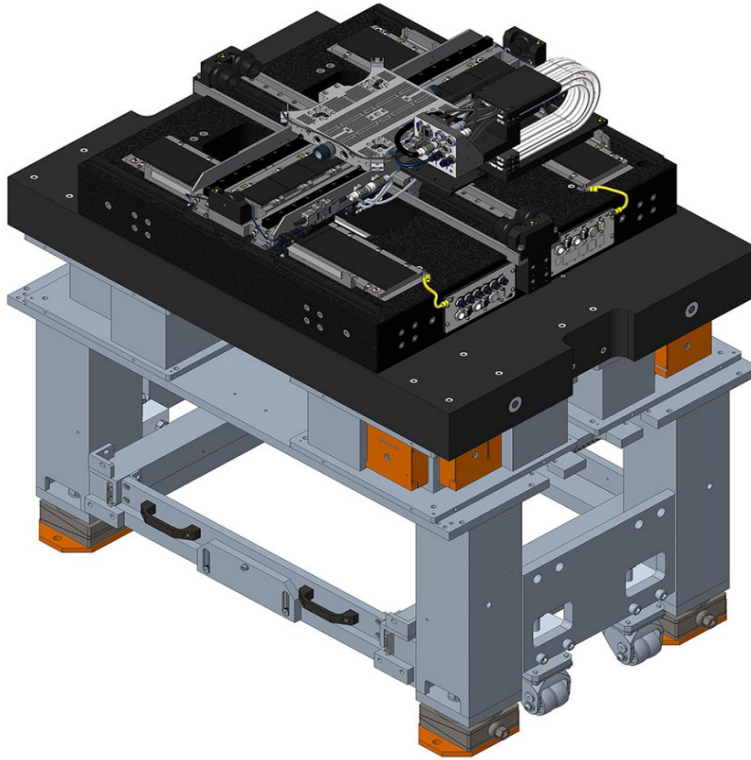
THEORETICAL TRANSMISSIBILITY - MS1: 600 to 800 kg



THEORETICAL TRANSMISSIBILITY - MS2: 800 to 1000 kg



TYPICAL USE CASE: VULCANO2 STACKED SYSTEM



- Static Mass: 800 kg
- VC-C Floor

TYPICAL USE CASE: MEASURED TRANSMISSIBILITY

