Technical Specifications:  
_active vibration isolation for heavy loads
halcyonics_duo
Technical Specifications:

**AVAILABLE STANDARD VERSIONS**

DUO_73

**PERFORMANCE SPECIFICATIONS**

**ISOLATION TECHNOLOGY:** halcyonics_active vibration isolation technology based on piezoelectric type acceleration pickup, fast signal processing and electro-dynamic force transducers.

**FORCE DIRECTIONS:** Active compensation in all six degrees of freedom

**ISOLATION PERFORMANCE:**
- > 5 Hz = 25 dB (94.4 %)
- >10 Hz = 35 dB (98.2 %)

**ACTIVE BANDWIDTH:** 1.0–200 Hz

**SETTLING TIME:** 300 ms

**STROKE OF THE ACTUATOR:** 1.000 µm

**MAX. CORRECTION FORCES:**
- V. = Vertical: V. ± 16 N (for Duo_73 – 2 isolator configuration)
- H. = Horizontal: H. ± 8 N (for Duo_73 – 2 isolator configuration)

**LOAD CAPACITY:** 0–400 kg | 0–880 lbs per element

**OTHER SPECIFICATIONS**

**WEIGHT:** 26 kg | 57.3 lbs per element

**TOP PLATE MATERIAL:** Powder coated aluminum alloy

**MAXIMUM COMPENSATION LEVEL:** 350 µm/s at 9 Hz and 300 kg | 661 lbs

**INTERFACE:** BNC analog diagnostic output – 50 Ω
ENVIRONMENTAL AND OPERATIONAL REQUIREMENTS

ELECTRICAL VOLTAGE: 100–250 V~ | 47–63 Hz
POWER CONSUMPTION: 10–50 W per element
OPERATING TEMPERATURE: 10–40 °C | 50–104 °F
RELATIVE HUMIDITY: 0–60 %
OPERATING ALTITUDE: < 2,500 m | 8,100 ft

CERTIFICATION

ELECTRICAL SAFETY: CE certified according to directive 2006/95/EC
EMC: CE certified according to directive 2004/108/EC

- Floating table top is supported by steel springs; low-pass characteristics of spring-mass combination dominates the dynamic behaviour above 200 Hz.
- The settling time and maximum compensation level depend on several conditions, such as payload, frequency, load distribution and height of the payload. For that reason this value should be considered as an estimation.
Technical Dimensions:

A = 730 mm | 28.7"
B = 210 mm | 8.3"
C = 125 mm | 4.9"
D = M6 (16 x)