



ESA

EASE SPRING ABSORBERS

INTRODUCTION | GENERAL FEATURES

EASE SPRING ABSORBERS, ESA

Ease Spring Absorbers, ESA a brand that will lead the way in the field of noise, vibration and seismic control.

The company was founded in 1985 in Changhua, Taiwan as OEM manufacturer to produce rubber flexible connectors.

It produced vibration control products from 1987.

the factory embarks on R&D and had its first patent product in 1992. 台灣號碼

(taiwan): m321957 / 中國大陸 (china mainland):

zl200720147228.9

till date: 9 patents.

ESA, focused on research of vibration effects on equipment and structures, providing a solution to overcome the vibration by teaming up with some of the best acoustical engineers to solve a wide variety of complex vibration isolation problems for customers in different applications and across different industries from commercial building, Lab, theatre, production machines and to consumer's equipment.

GENERAL FEATURES:

All Ease Spring Absorbers, ESA Products are designed and manufactured with Butyl, Neoprene and Natural Rubber bearing pads, Air-cushion absorbers to frequencies as low as 6 Hz and steel spring (ASTM 6451C) assemblies in the 0.75 to 4.00 inch (19 to 100mm) deflection range in individual capacities of 5,000 lbs. (2,500 kgs.) Our engineering techniques and having our own research & development facilities are used to develop isolators to keep ground vibration and noise out of buildings close to railroads, subways, heavy traffic or industrial impact of mechanical equipment.

Spring elements are design with spring diameter > 0.8 of operating height and up to 150% of overloading capacity or maximum deflection of up to 150% Spring element are made to comply to SAE9254 wire steel which meets ASTM 6451C Standards. The spring element are design with Horizontal stiffness > 0.8 of vertical stiffness. Which are also design to withstand 100,000 cycle. The spring element are protected by layers of power coating that meets ASTM B117 standards for long life spend.

Other metal parts such as hanger bracket, restraint housing top & bottom cup are made of steel material of standard JIS SS41. The metal components are protected by power coating that meets ASTM B117, hot dip galvanized coatings or by dacromet coating. (Dacromet coating has environmental advantages also like it is composed of nontoxic metals.) For most of our metal components ESA uses dacromet coating due to its durability properties. This coating offers corrosion protection comparable to hot-dip galvanizing. Properly dacrotized parts can typically withstand a 500hour salt-spray test.

ESA selected rubber components for its bottom based, hanger parts & isolation pads uses Butyl rubber (IIR) as our base offers. Butyl rubber (IIR) has outstanding resistance to attack by oxygen and ozone, and good chemical resistance to a large number of organic and inorganic media. Due to the absence of double bonds in the backbone, IIR products can withstand prolonged exposure to heat, and are usually stable in dilute acids and alkalis. IIR has exceptional low gas and moisture permeability which makes it ideal for inner tubes and high pressure/vacuum applications under demanding conditions. Other synthetic elastomer such as neoprene, silicon, natural rubber (NR) are also available.

