

CENTROTECNICA
stress to ensure

Suitable for all shakers and chosen as original equipment by IMV Corp.

the **Guided Head Expanders**

TO TEST LARGER AND HEAVIER SAMPLES

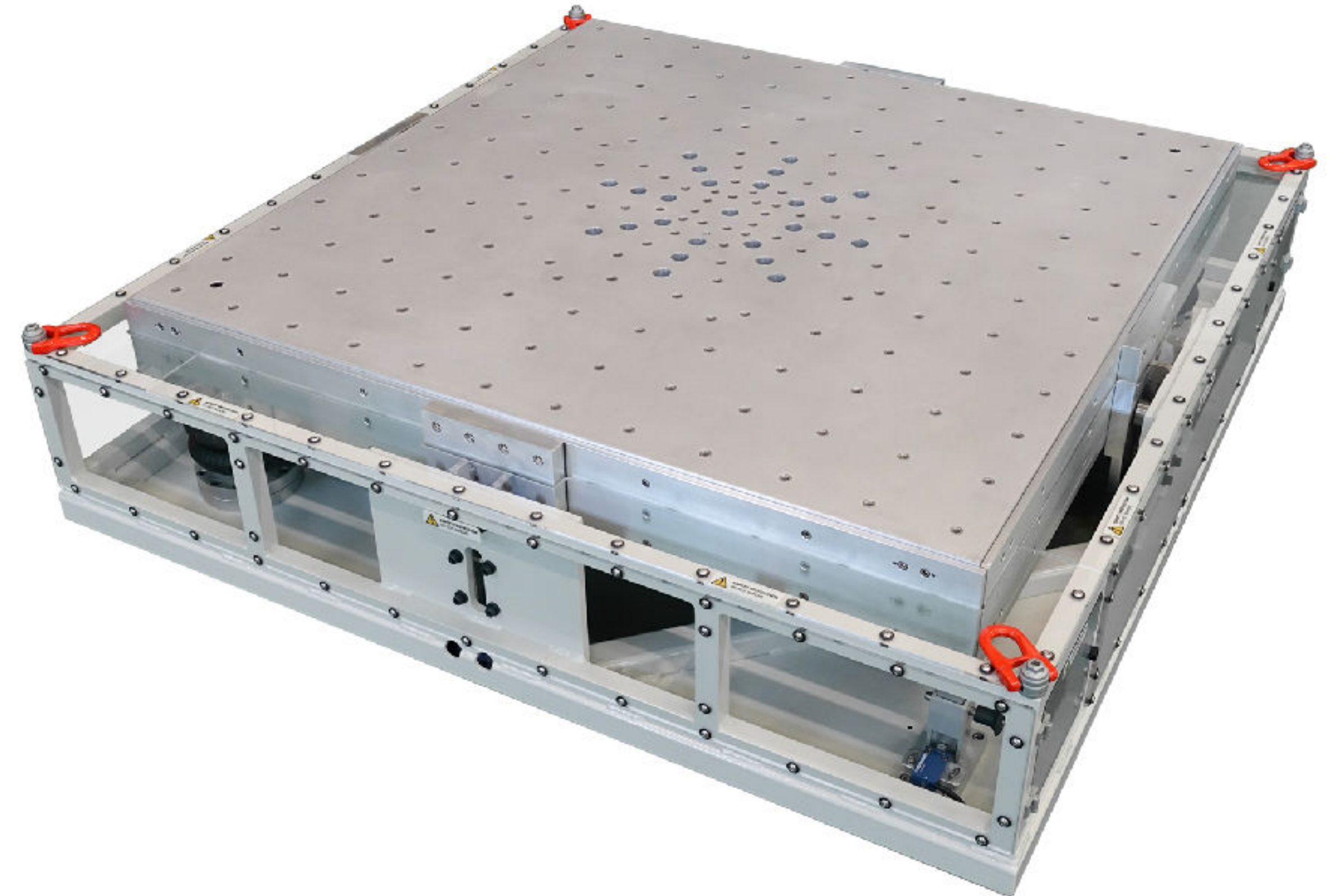
THE GUIDED HEAD EXPANDER, A KEY ACCESSORY FOR THE SHAKER

The head expander is an accessory that allows the surface on which the sample is placed to be expanded. It can be mounted on the armature of any shaker for testing along the vertical axis.

The guided head expander is a more complex accessory that offers two further advantages:

- 1) It allows the alignment of the armature to be maintained in the presence of samples whose centre of gravity is not along the axis of vibration (unbalanced samples).
- 2) It directly supports the weight of the sample (load support), allowing the shaker to test samples with a higher mass than the armature allows.

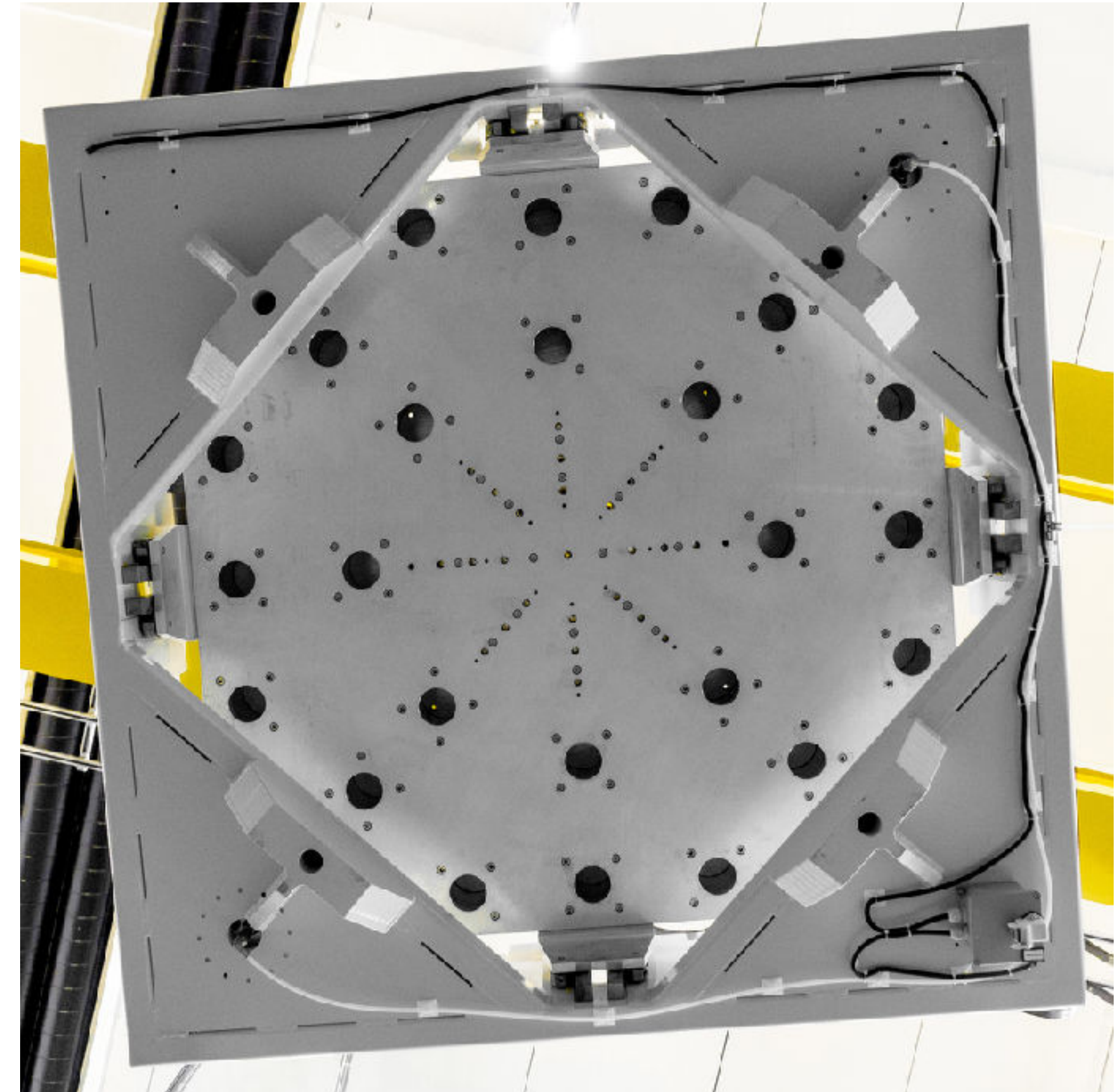
For these reasons, guided head expanders often become crucial in the presence of bulky or heavy samples that would otherwise make shaker operation critical: battery packs, aircraft components, railway components, armored cabinets, air conditioning systems, pallets...



THE GUIDED HEAD EXPANDER, TECHNICAL SPECIFICATIONS

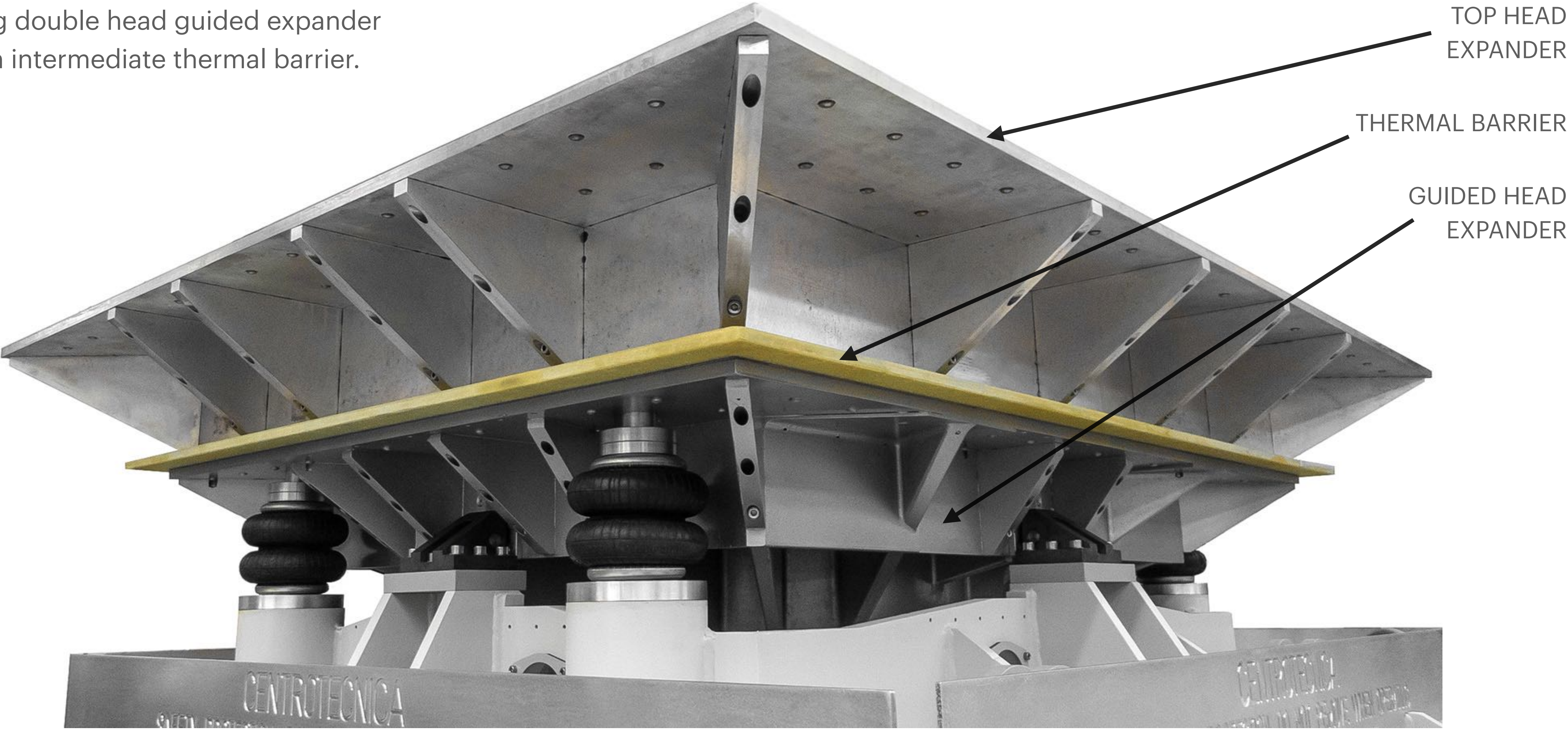
SPECIFICATIONS AT A GLANCE:

- Purely mechanical guides
- No hydraulics and therefore no oil. Even on the largest expanders
- High strength and reliability
- Structural protection of the shaker in the presence of samples with off-axis or unknown center of gravity
- **Dynamic behavior unaffected by changes in expander temperature**
- Can be realized in a wide range of shapes and sizes
- Load support by air springs.
- Unique "Locking System" to support the load during long pauses (e.g., overnight stops) and safeguard the shaker suspensions
- **Unique guiding system between shaker and expander that ensures their perfect alignment**
- Can be adapted to any shaker armature
- Extremely low maintenance required



THE MOST POPULAR INTENDED USE: THE BATTERY TESTING

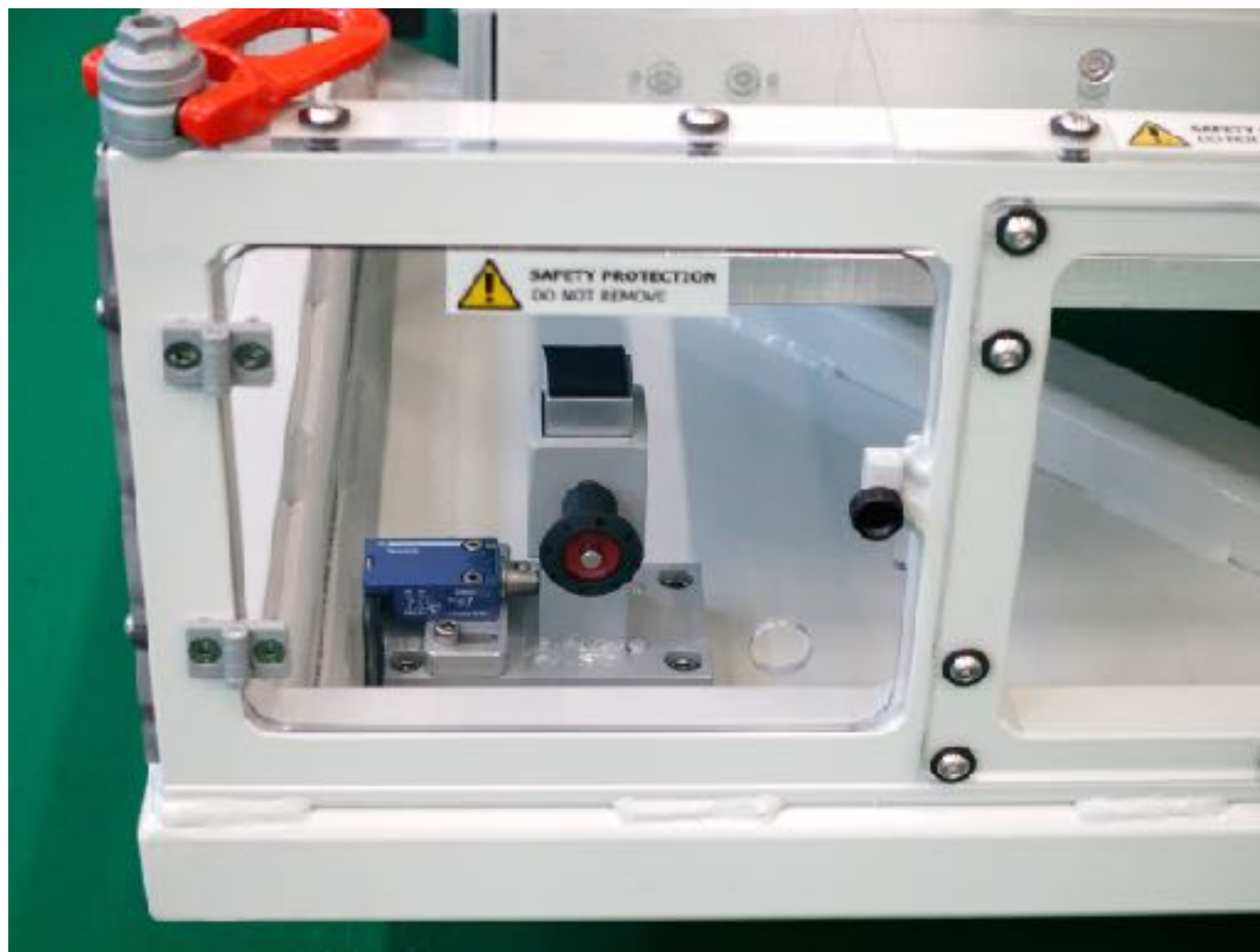
Overlapping double head guided expander version with intermediate thermal barrier.



DESIGNED IN EVERY DETAIL TO PROVIDE MAXIMUM PERFORMANCE

Each guided head expander is designed and assembled according to specific needs:

- Model of shaker on which it will be installed
- Type of test for which it is required
- Type of sample and its special requirements (e.g., protection from acids when testing batteries)
- Dimensions and drilling pattern of the top surface (standard: grid with M8 holes and 100 mm centre distance, but there are no limits to customization)
- Needing thermal insulation for climate testing (there are multiple solutions for this)



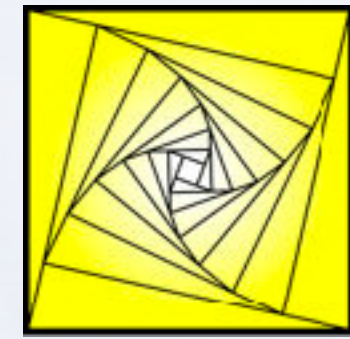
Advanced safety systems



Load support by air springs



Multiple thermal insulation solutions



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CENTROTECNICA uses a network of trusted partners to provide installation, consulting, service and maintenance for all guided expanders delivered worldwide.

For info or RFQs, pls contact us at mail: sales@centrotecnica.it - phone: +39(0)255305888

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