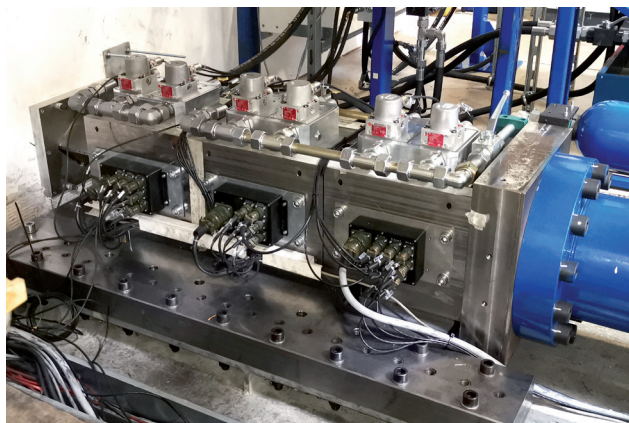


Crash Test Bench & Shaker

SPECIAL TESTING CAPABILITIES AT CETECOM ADVANCED'S CENTER FOR BATTERY TESTING & ENVIRONMENTAL SIMULATION



INTRODUCTION TO OUR IMPROVED CRASH TEST BENCH

- A pneumatic cylinder accelerates the test item, which is fixed on the sled.
- The cylinder shoots the slide in positive crash-direction.
- After a predefined time the slide will be coupled out and brake autonomously.

SOME KEY FACTS OF THE CRASH TEST BENCH

- Pneumatic crash test bench
- Slide with dedicated brake system for a controlled deceleration
- Nominal thrust: 900 kN
- Systems pressure of the pneumatic cylinder: max. 225 bar
- Mounting surface on the sled: 1200 x 1200 mm, optional extension plates possible

WE KNOW HOW WE CAN SUPPORT YOU WITH YOUR ECE R100 TESTING

- Our crash test bench is appropriate for test devices with a weight of more than 500 kg
- We accelerate test items up to 60g-pulse on with max. velocities of 70 km/h possible



VIBRATION & SHOCK

We have various shakers with forces up to 300 kN and a climatic chamber size of 2500 x 2600 x 2100 mm and even more for climate-independent shaker tests.

VIBRATION WITH CLIMATICAL AND ELECTRICAL OVERLAY - 300 KN SHAKER

Test facility features:

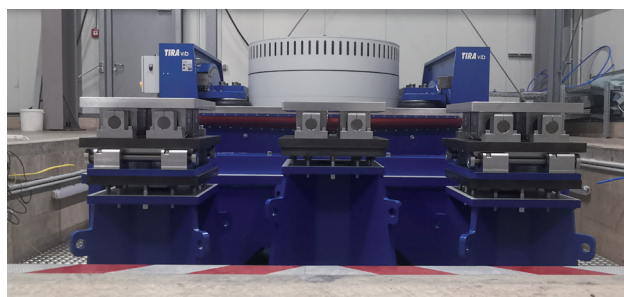
- Displacement up to 3 inches
- Testing mass of max 2.5 t (for sine and random vibration); 17.6 t (shock)
- Acceleration up to 220 g (pk) for sine vibration and up to 180 g (rms) for random vibration; up to 100 g for shock

Testing according the following standards:

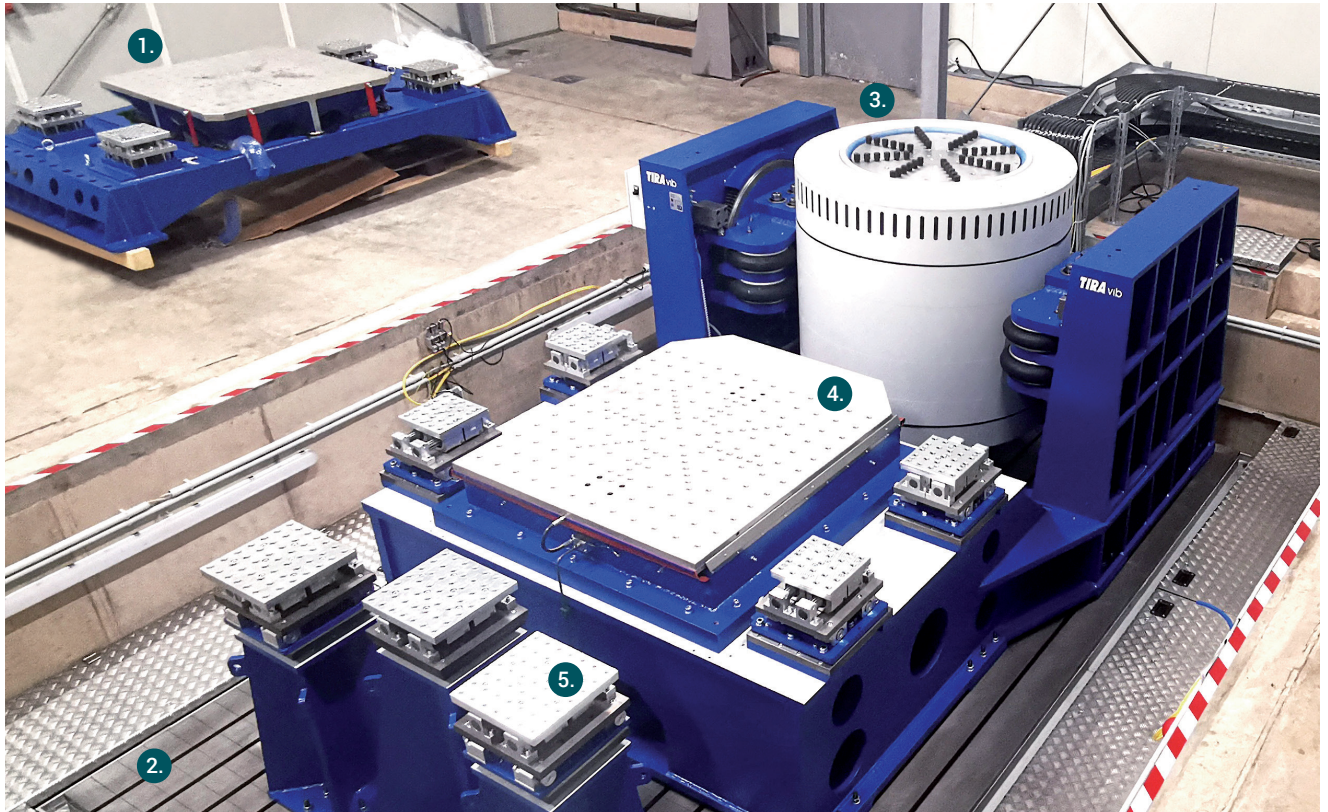
- DIN EN IEC 60068-2-6/-27, -29, -47, -57, 64, -80
- DIN ISO 16750-3 • ISO 19453-3

VIBRATION – with climatical and electrical overlay (DRIVE CYCLE)

Max. charge + discharge current:	10-600 A script controlled
Max. voltage:	10-600 V script controlled
Test temperature:	-40°C – +80°C script controlled
Vibration:	sine / random / shock
Cooling:	water glycol / water / silicone oil



Crash Test Bench & Shaker



VIBRATION – with climatical and electrical overlay – 300 kN Shaker

1. Boosted Headexpander (unassembled) for tests in vertical direction
2. Air beared steel plate for vibration decoupling of the foundation
3. 300 kN electrodynamic drive (pivotable)
4. Oil bed beared slide table (1.2 m x 1.2 m)
5. Relocatable extension of the platform (Total area up to 2.5 m x 2.5m)

ARE YOU LOOKING FOR A LAB TO PERFORM AUTOMOTIVE TESTING AND APPROVAL?

In any event we are always available to answer any questions you may have:

mail@cetecomadvanced.com