



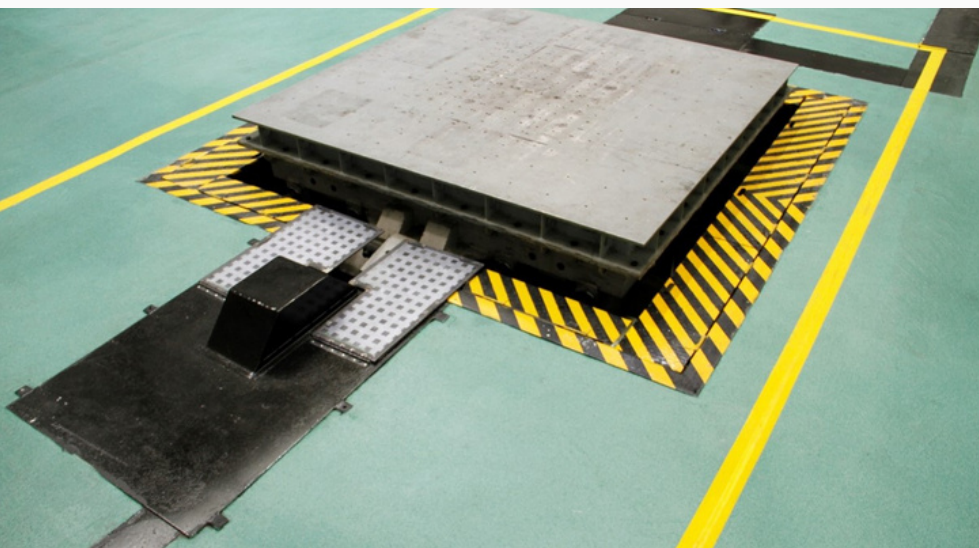
VIRLAB

Vibration and shock testing laboratory accredited by ENAC according to the UNE-EN ISO/IEC 17025 standard, for the performance of tests under widely applied standards in the qualification of equipment, both on-board and subjected to the vibrations generated by train operation.

Testing platforms

EDB250X250 Biaxial oil-hydraulic platform

Capable of testing equipment up to 6,000 kg and up to 4 m in length.



AREA OF USE: 2.500x2.500 mm
ACTUATORS: 2 cylinders 150 kN
AMPLITUDE: ± 125 mm
MAXIMUM SPEED: 800 mm/s
MAXIMUM ACCELERATION: 6 g (horizontal)
FREQUENCY RANGE: 0,1 to 200 Hz

TEST STANDARDS

IEC 60068-2-6
Environmental testing- Part 2-6:
Tests- Test Fc: Vibration
(sinusoidal)

IEC 60068-2-27
Environmental testing -- Part 2-
27: Tests - Test Ea and
guidance: Shock

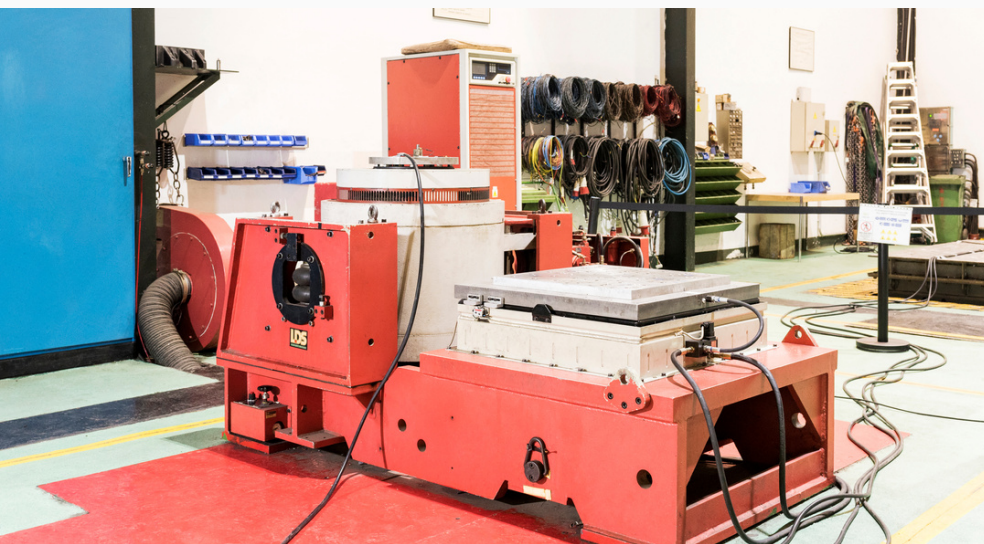
IEC60068-2-64
Environmental testing -- Part 2-
64: Tests - Test Fh: Vibration,
broadband random and guidance

IEC 61373
Railway applications
Rolling stock
Shock and vibration testing



LDS824LS Uniaxial electrodynamic platform

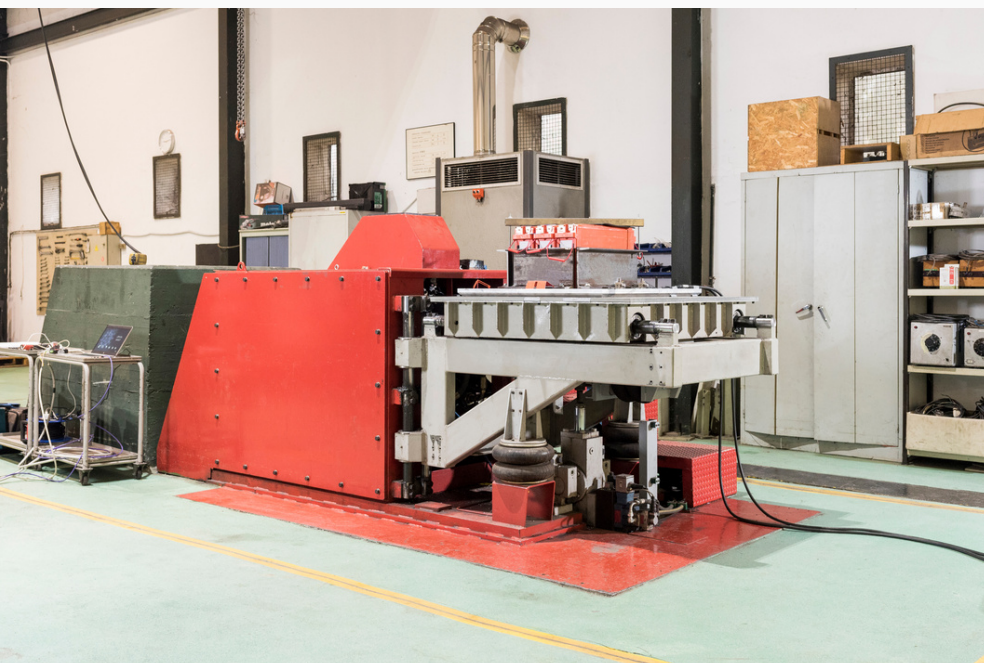
With a capacity to test equipment up to 500 kg and an extendable area of 1,000 mm x 1,000 mm.



AREA OF USE: 750x750 mm
ACTUATOR: Generator of 27 kN
AMPLITUDE: ± 19 mm
MAXIMUM SPEED: 1.500 mm/s
1.780 mm/s (shock)
MAXIMUM ACCELERATION: 60 g
FREQUENCY RANGE: 1 to 3.200 Hz

EDB120 Biaxial oil-hydraulic platform

Capable of testing equipment weighing up to 450 kg



AREA OF USE: 1.200x1.200 mm
ACTUATORS: 2 cylinders 100 kN
AMPLITUDE: ± 125 mm
MAXIMUM SPEED: 1.000 mm/s
MAXIMUM ACCELERATION: 10 g
FREQUENCY RANGE: 0,1 to 150 Hz

TESTED EQUIPMENTS

Air conditioning equipments

On-track signals

Energy storage systems

Resistor boxes

Vending machines

Pantographs

Converters

Circuit breakers

Electronic equipments

REFERENCES

KNORR BREMSE (MERAK)

CAF P&A

CAF

HISPACOLD

SEPSA

INGETEA

SATYS

ICF

AIRTIFICIAL

RALEX

ALSTOM

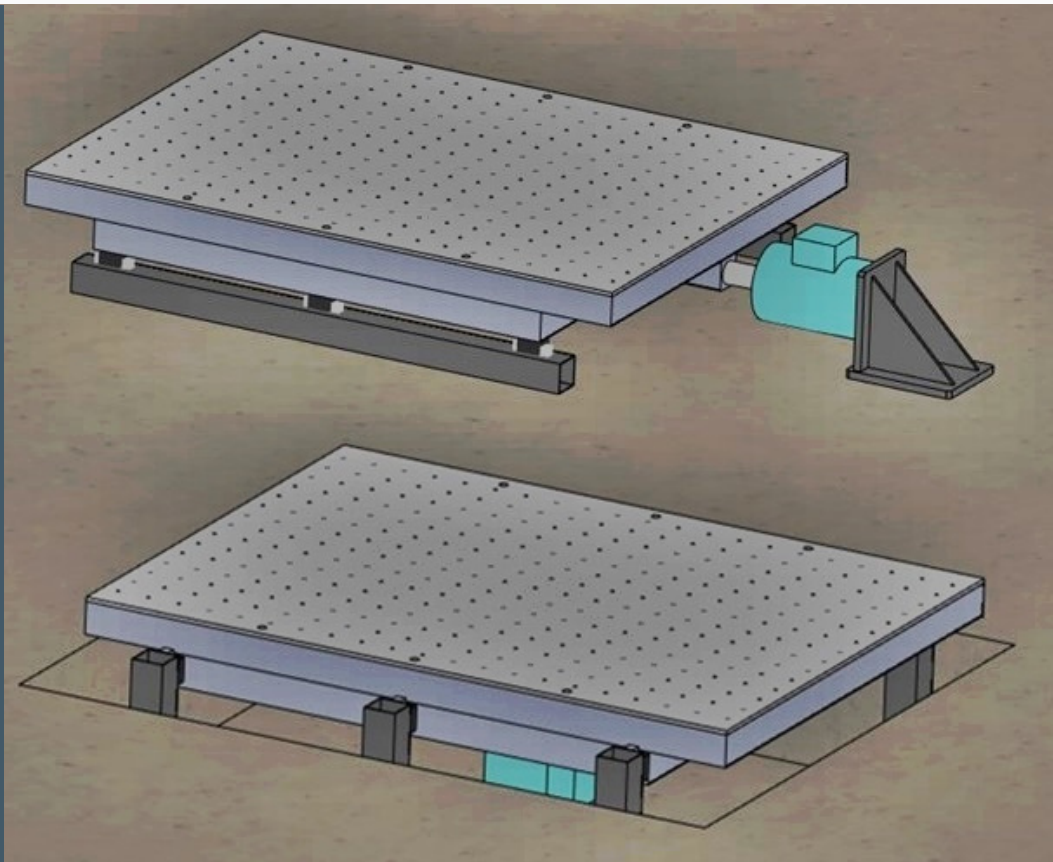
SCHUNK

SUPSONIK

NEW 4X3 meter PLATFORMS in 2024

Capable of testing equipment weighing up to 10,000 kg
and up to 6 m in length

Large capacity
Double platform
Quick change system



AREA OF USE: 4000 x 3000mm
ACTUATORS: 2 cylinders 910 kN
AMPLITUDE: ± 25 mm
MAXIMUM SPEED: 1200 mm/s
MAXIMUM ACCELERATION: 11 g (empty)
8g(with 3,000 kg equipment)
FREQUENCY RANGE: 0,1 to 200 Hz