

20 N



AIM OF THE EXCITERS

The aim of the exciters is to transform the current produced by an amplifier into a proportional force which, applied on appropriated points of a structure, sends a vibratory movement to this structure.

MAIN FEATURES

The magnetic circuit of a ticonal cylindrical permanent magnet generates a magnetic field in which the moving coil is suspended by two circular membranes.

The low weight of the moving system (about 60 grams) allows to generate forces reaching 20 N with an acceleration without load of about 450 m/s^2 and a first resonance frequency without load of 11,600 Hz.

APPLICATIONS

The exciter EX 24, because of its low weight and its reduced dimensions, is particularly suitable for various applications and particularly modal analysis.

Associated with an amplifier A 732/4 A, this exciter can be used until 8,000 Hz at the maximum of its force, with a distortion rate less than 1%.

TECHNICAL FEATURES

Nominal force	20 N
Force factor	6.5 N/A
Maximum peak current	4 A
Linearity force/current	< 1 %
Maximum displacement	± 5 mm
Coil resistance at 20°C	1.2 Ohm
Maximum connection cable resistance	0.4 Ohm
Effective moving mass	61 grams
Maximum acceleration without load	450 m/s ²
First resonance frequency without load	11,400 Hz
First resonance frequency with load ¹	5,700 Hz
Exciter impedance with cable at 1 kHz	2.5 Ohm
Associated amplifier	A 732/4 A
Usable frequency range ²	DC to 17,500 Hz
Fundamental suspension frequency	29 Hz
Suspension stiffness	2 N/mm
Magnetic circuit	Cylindrical ticonal permanent magnet
Cooling	By natural convection
Electrical connection	By FRB C P M 31 socket
Total weight	4.5 kg

OPTIONAL ACCESSORIES:

- Cable reference: CL 4-5 (5 meters) or CL 4-10 (10 meters)
- Mechanical link reference L23; Mechanical adjustable link reference LMA 3
- Linear elastic cord suspension system reference S 24L
- Seismic support reference SS 24; Stirrup ES 24
- Trunion reference BF 24

¹ Test weight : 90 grams

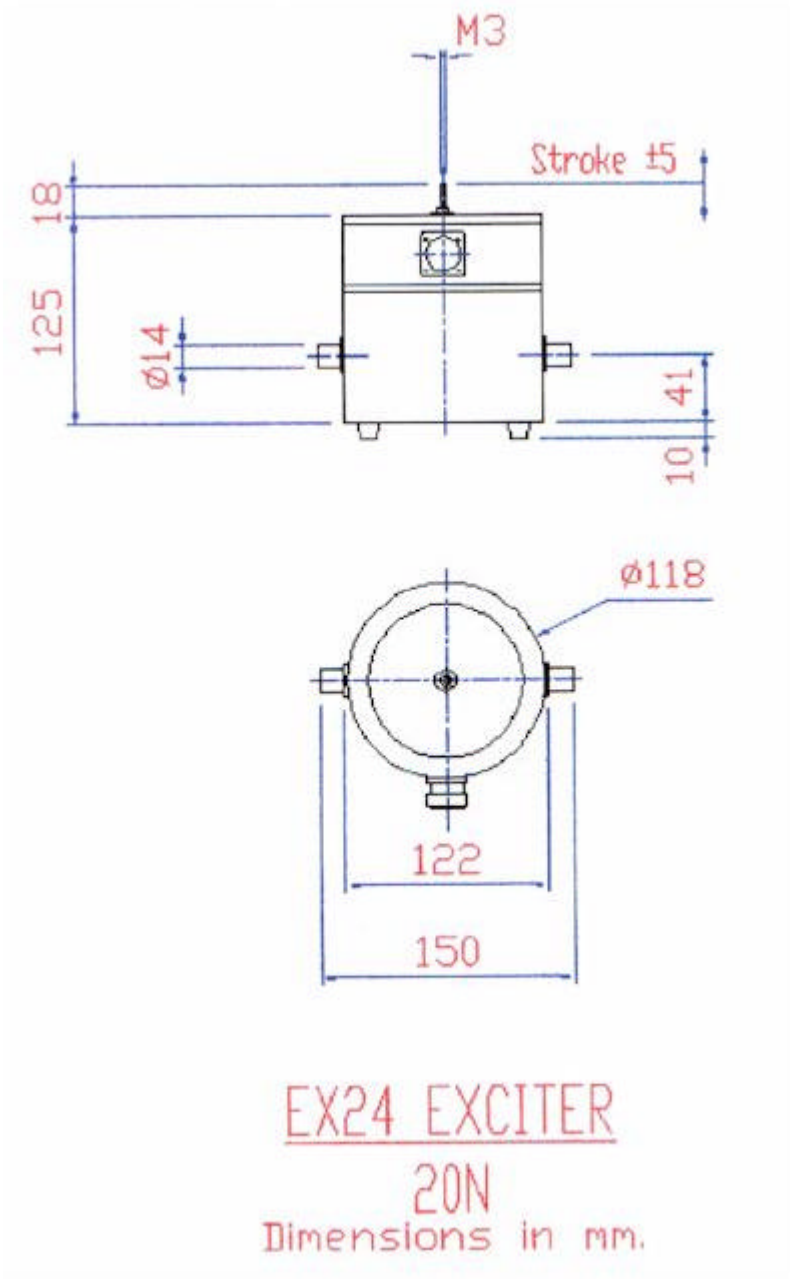
² With associated amplifier at 100 % of the force and 1 % of distortion

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DIMENSIONS



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