
EXCITER

EXCITER

EX 1060 (1 200 N)

EX 2060 (2 040 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

Identically designed, the only difference between the EX 1060 and EX 2060 exciters is their moving coil and their command amplifier.

In order to give a very high force, the magnetic field of about 16,000 gauss is obtained from field coils powered by a DC supply.

The moving coil is guided by six elastic flexures insuring a weak transverse movement.

The ventilation of the exciter is insured by a ventilator working in depression or by industrial compressed air able to deliver 70 m³/hour at a pressure of 1.5 bar. The customer will choose the type of ventilation system when ordering. A later changeover from one system to another one implies the replacement of the security manostat from pressure to depression or vice versa.

A 10 element multicolour and luminous scale allows at any moment the visualisation of the moving coil median position in the magnetic circuit and the indication of the movement amplitude during the tests. This visualisation is repeated on the front panel of the associated amplifier. The excitation of the field coils is insured by a power supply regulated in direct current delivering 7 A at a voltage between 80 and 120 V.

APPLICATIONS

Thanks to their force, the EX 1060 and EX 2060 exciters can be used in any test on heavy structures.

The EX 1060 exciter with the A 651/S1 amplifier (1,000 W) supplies a force of 1,000 N for an acceleration without load at about 1,000 m/s² and a maximum frequency range of 1,000 Hz at 100% of the power.

The EX 2060 exciter with the A 651/S2 amplifier (2,000 W) delivers a force of 2,000 N for an acceleration without load of 1,500 m/s² and a maximum frequency range of 650 Hz at 100% of the power.

TECHNICAL FEATURES

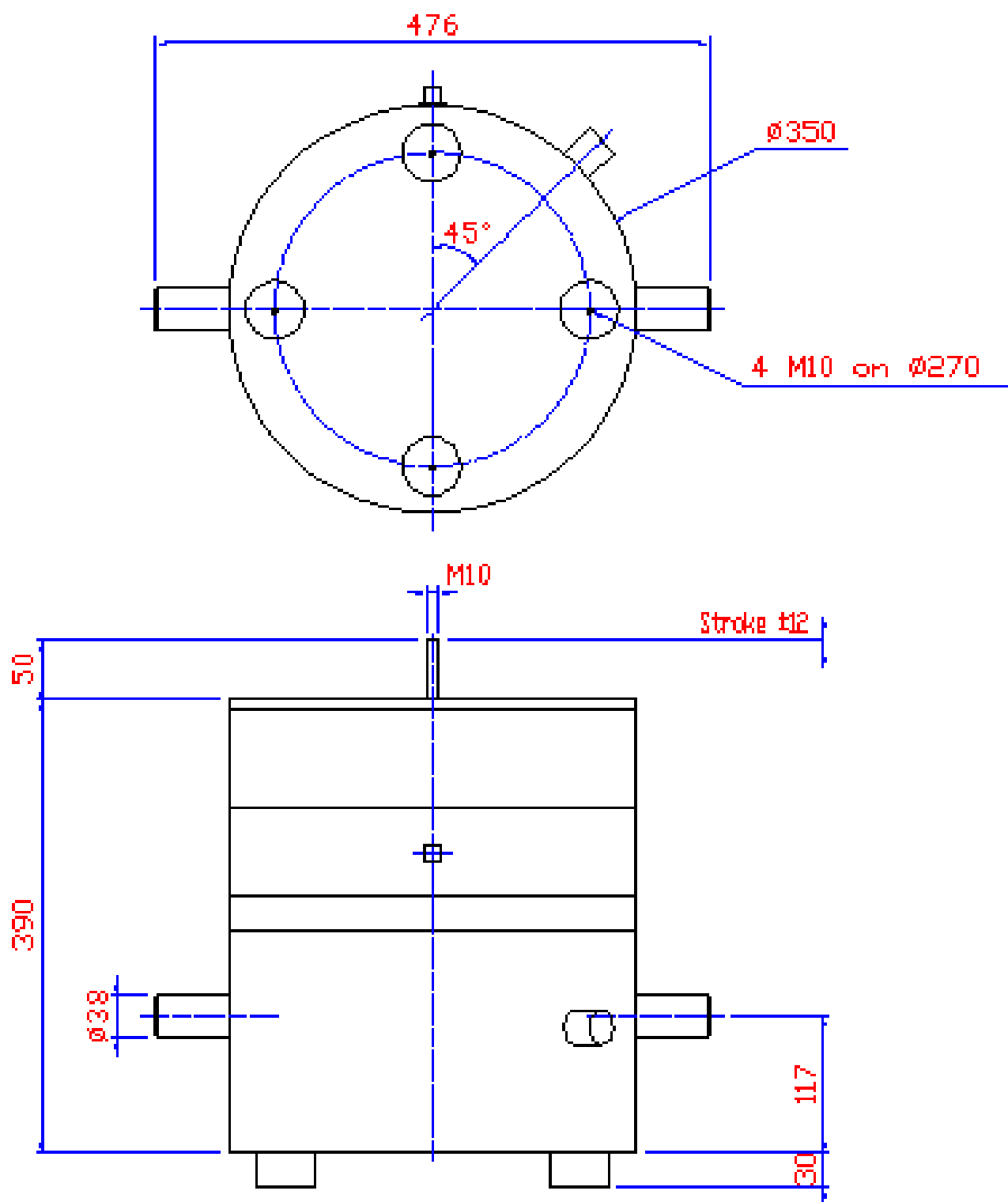
	<i>EX 1060</i>	<i>EX 2060</i>
Nominal force	1,200 N	2,040 N
Force factor	20 N/A	34 N/A
Maximum peak current	60 A	
Maximum displacement	± 12.5 mm	
Moving coil resistance at 20°C	0.17 Ohm	0.3 Ohm
Moving tool weight	1 kg	1.8 kg
Maximum acceleration without load	1,200 m/s ²	1,460 m/s ²
First resonance frequency without load	3,630 Hz	3,260 Hz
First resonance frequency with load ¹	2,150 Hz	1,770 Hz
Coil impedance at 500 Hz	0.32 Ohm	0.84 Ohm
Associated amplifier	A 651/S1 (1,000 W)	A 651/S2 (2,000 W)
Maximum frequency of use ²	6,000 Hz	3,000 Hz
Field coil resistance at 20°C	12 Ohm	
Magnetisation direct current	7 A	
Cooling system	With external turbine or compressed air 1.5 bar, 70 m ³ /hour	
Maximum connection cable resistance	0.02 Ohm	
Electrical connection	With socket	
Total weight	150 kg	

OPTIONAL ACCESSORIES:

- Power cables references CL 1060-10 (10 meters), CL 1060-20 (20 meters), CL 1060-30 (30 meters)
- Position cables references CL-S-10 (10 meters), CL-S-20 (20 meters), CL-S-30 (30 meters)
- Mechanical link reference L27; Mechanical adjustable link reference LMA 500
- Linear elastic cord suspension system reference S 1060 L
- Trunnion reference BF 540

¹ Test weight: 54 g for EX 1060; 10 kg for EX 2060

² With associated amplifier at 100% of the force and 2% of distortion. Possibility to increase the frequency of use of the moving coils especially studied for high frequencies.



EX1060 (1000N) EXCITER

EX2060 (2000N)

www.haopute.com
 email:info@haopute.com
 phone:02884625157
 mobile:18982185717



PRODERA