

Performances

Typical performances are given in the following table. This table is not exhaustive as many other actuators can be rapidly designed by Cedrat Technologies using its design tools, lab facilities and technological know-how.

References	Unit	DMA XS	DMA L	DMA XL
<i>Notes</i>				
Stroke	μm	2	110	100
Maximal force	N	250	1570	21000
Maximal frequency	kHz	5	2	1
Voltage	V	12	12	12
Dissipated DC power	W	10	10	20
Diameter	mm	8	115	130
Height	mm	5	180	180
Mass	g	10	9300	12000
Electrical interface		2 wires AWG	2 wires AWG	2 wires AWG

Applications

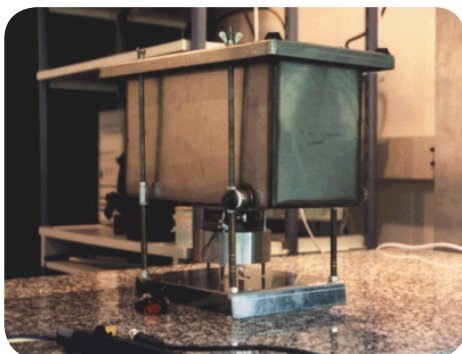
Magnetostrictive Actuators are in strong competition with the standard piezo electric actuators such as PPAs and APAs (see catalogue http://www.cedrat.com/hardware/piezo_actuators/piezo_actuators.htm) from CEDRAT TECHNOLOGIES.

They find applications as sound generators (sonars), proportional valves, high forces generators or low voltage actuators (it can be less than 12V) ...

They are used in machine tools, gas & petroleum industry, and are considered for medical, military and space industries...

Collaborations, Supports

CEDRAT TECHNOLOGIES is partner of the FP6 EC MESEMA project with ALENIA, EADS, TACT, U.Naples, ZIP-LPA, ZFL.



High power (3kW) magnetostrictive sonar transducer TRIPODE.



Magnetostrictive transducer for ultrasonic cleaning.



Magnetostrictive actuator for making an aircraft hydraulic pump in an Electro Hydraulic Actuator (EHA).