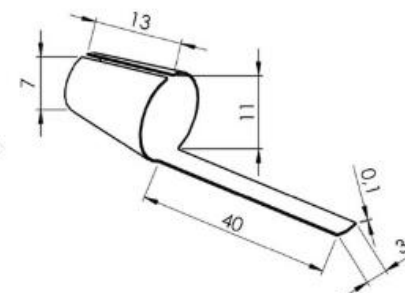


(a)



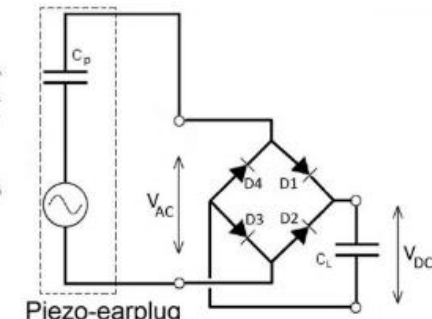
(b)



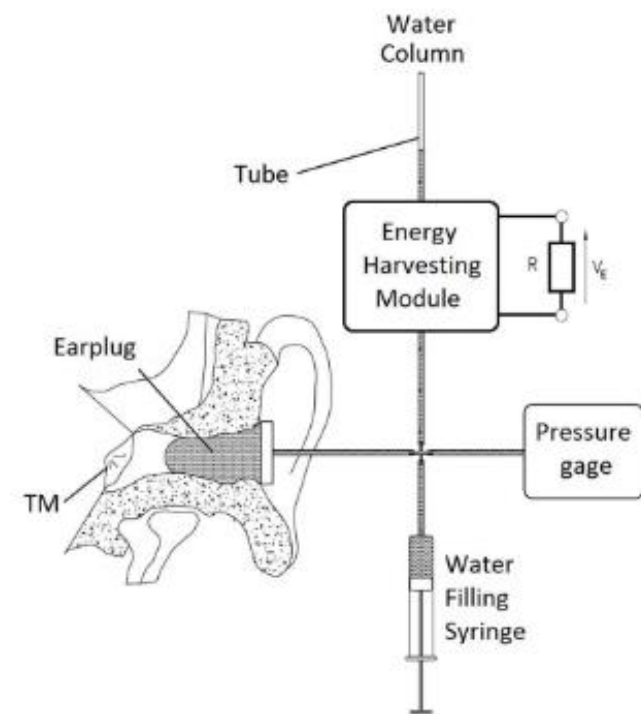
(c)



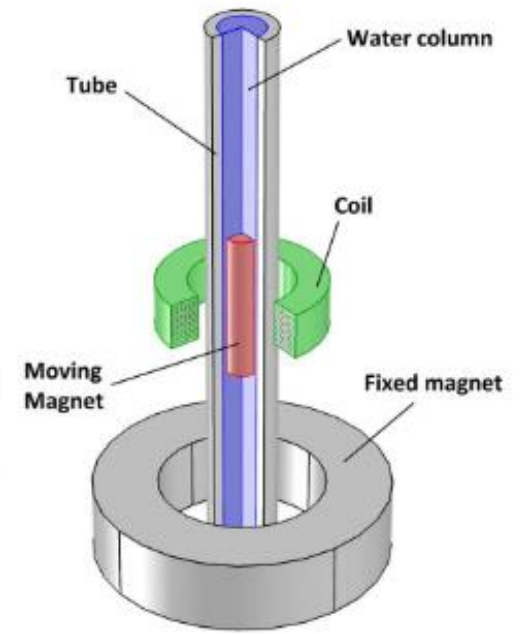
(d)



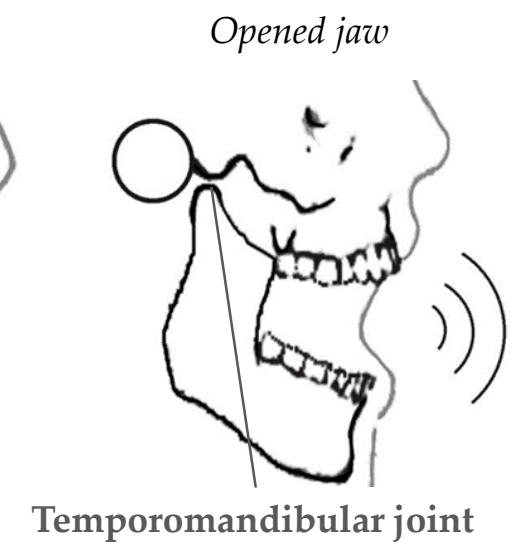
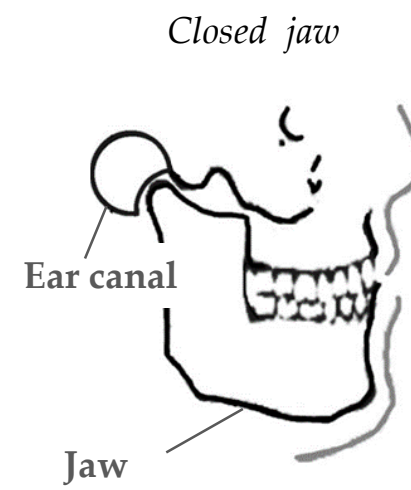
(e)

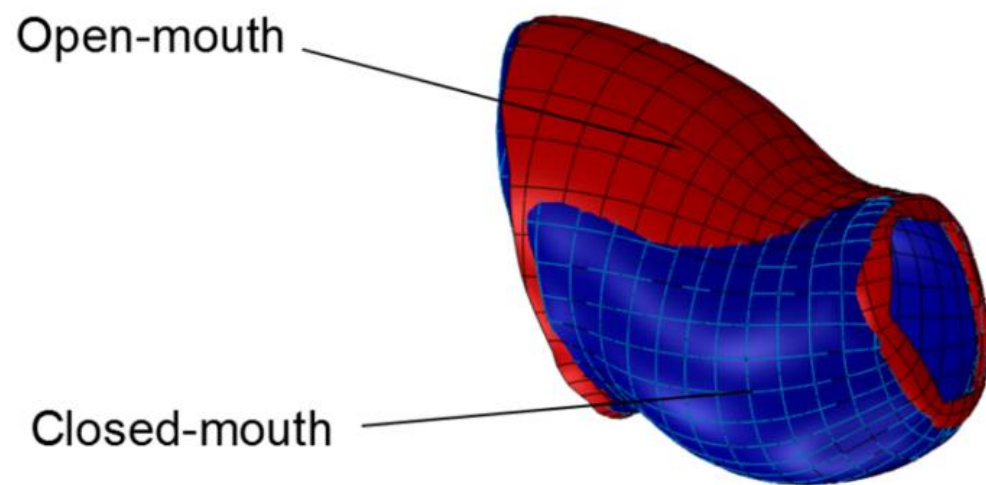


(a)

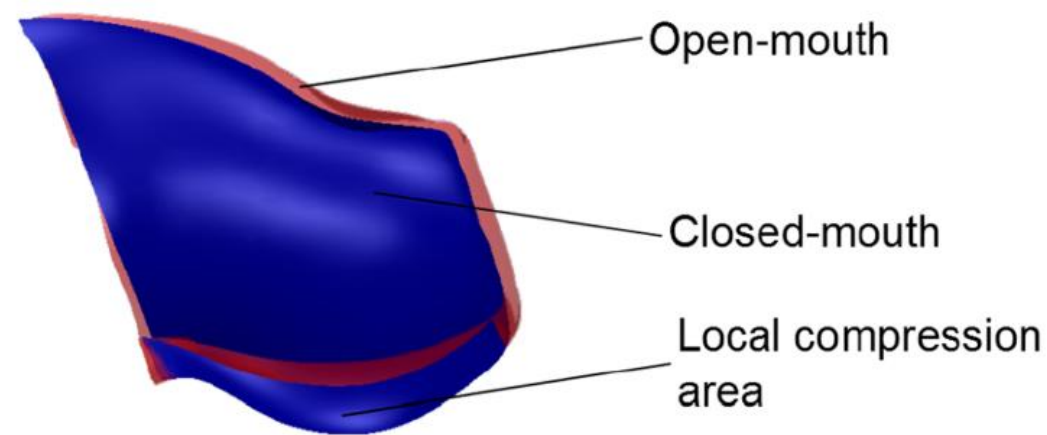


(b)



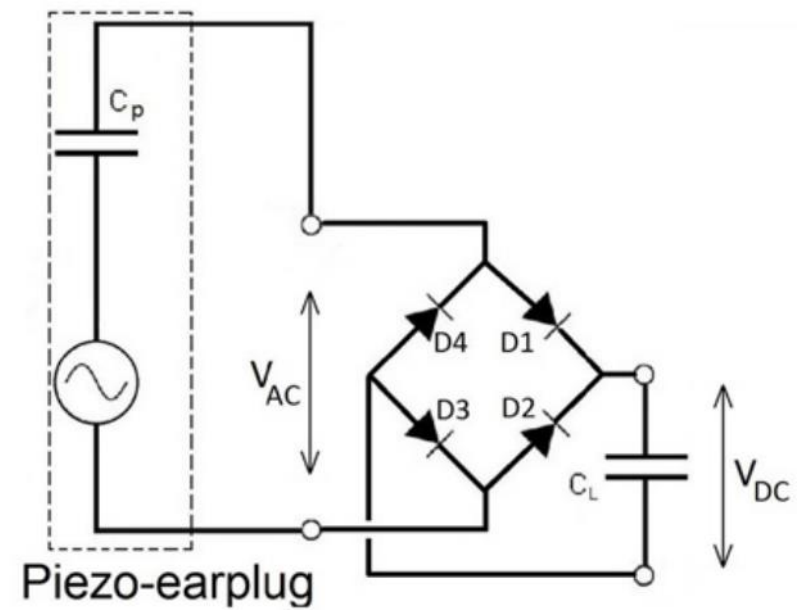


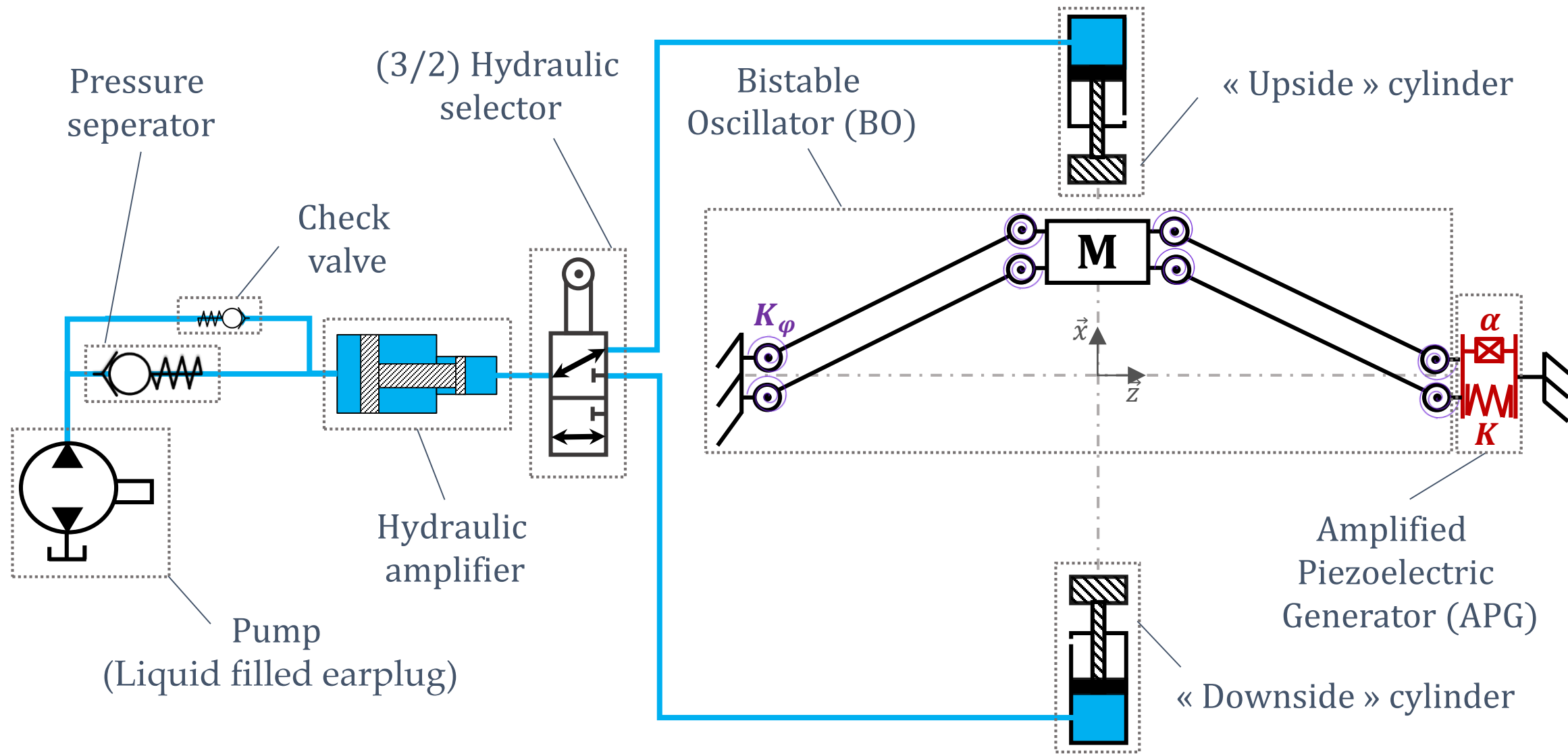
(a)



(b)

Test subject		Global flexion energy		Radial compression energy	
Ear		Absolute (mJ)	Proportion (%)	Absolute (mJ)	Proportion (%)
01G	01D	3.4	100	0	0
		4.7	100	0	0
02G	02D	3.0	96.8	0.1	3.2
		1.1	61.1	0.7	38.9
03G	03D	15.1	87.3	2.2	12.7
		4.4	93.6	0.3	6.4
04G	04D	4.7	79.7	1.2	20.3
		2.5	55.6	2.0	44.4
05G	05D	9.2	100	0	0
		19.6	94.2	1.2	5.8
06G	06D	6.8	68.7	3.1	31.3
		1.9	41.3	2.7	58.7
07G	07D	1.6	22.9	5.4	77.1
		3.1	88.6	0.4	11.4
08G	08D	2.8	50.9	2.7	49.1
		1	83.3	0.2	16.7
09G	09D	0.7	100	0	0
		7.0	63.1	4.1	36.9
10G	10D	3.0	88.2	0.4	11.8
		3.4	59.6	2.3	40.4
11G	11D	2.6	48.1	2.8	51.9
		14.6	98.0	0.3	2.0
12G	12D	0.6	85.7	0.1	14.3
		3.0	96.8	0.1	3.2
Mean		5	77.6	1.3	22.4
Std. deviation		4.9	22.2	1.5	22.2





Prestressing wedge

PZT stack

\vec{x}

\vec{z}

Flextension
structure

12.8mm

4.7mm

