

**Supplemental material for:**

Buhr, P.; Shafai, C.; Park, B.; Wang, Y.; Belov, M. Optimization of Micro-Electromechanical Lorentz Actuator Using a Surrogate Model Accelerated Genetic Algorithm. *Proceedings* **2024**, *97*, 191. <https://doi.org/10.3390/proceedings2024097191>

Design Variable	Design (a)	Design (b)	Design (c)
# of spring turns	2	0	0
Spring thickness	5	5	5
Spring width	29	188	232
Spring length (long segment)	700	495	195
Spring length (short segment)	40	N/A	N/A
Crossbar thickness	25	20	22
Crossbar width	200	50	400
Crossbar length	2080	1359	581
Aluminum coating thickness	1.5	1.9	1.9