Supplementary Material

Table S1. Details on commercially available miniaturized high-voltage electronics that could readily be used for designing prosthetic hands driven by Peano-HASEL actuators.

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| **Manufacturer**  | **Part Number**  | **Function**  | **Maximum operating voltage**  | **Dimensions (length x width x height in mm)**  | **Weight (g)**  |
| Pico Electronics  | 5VV10  | Proportional high-voltage amplifier  | 10 kV  | 57.15 x 28.58 x 12.7  | 45  |
| XP Power  | AG series  | Proportional high-voltage amplifier  | 3-5 kV  | 28.7 x 17.53 x 6.35  | 7.09  |
| Voltage Multipliers Inc.  | OC100HG  | Optocoupler (high-voltage switch)  | 10 kV  | 25.4 x 11.4 x 8.13  | 4.5  |
| IXYS  | IXTT02N450HV  | N-channel enhancement mode MOSFET (high-voltage switch)  | 4.5 kV  | 14 x 16.05 x 5.1  | 4  |