

YOUBIONIC HAND

HANDBOOK



youbionic

When 3d printing explodes in the world and printers spread, Youbionic provides the elements to create robotics and bionics never seen up to today. We can run to the future and evolve as soon as possible.

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BILL OF MATERIAL

N° 1 3D Hand prints

- Index
- Middle
- Ring
- Pinkie
- Thumb
- Rotation
- Palm
- Back

N° 1 Motherboard

N° 6 Actuators PQ12-P Linear Actuator - 63:1 - 6 vdc

To buy: <https://www.actuonix.com/Actuonix-PQ-12-P-Linear-Actuator-p/pq12-p.htm>

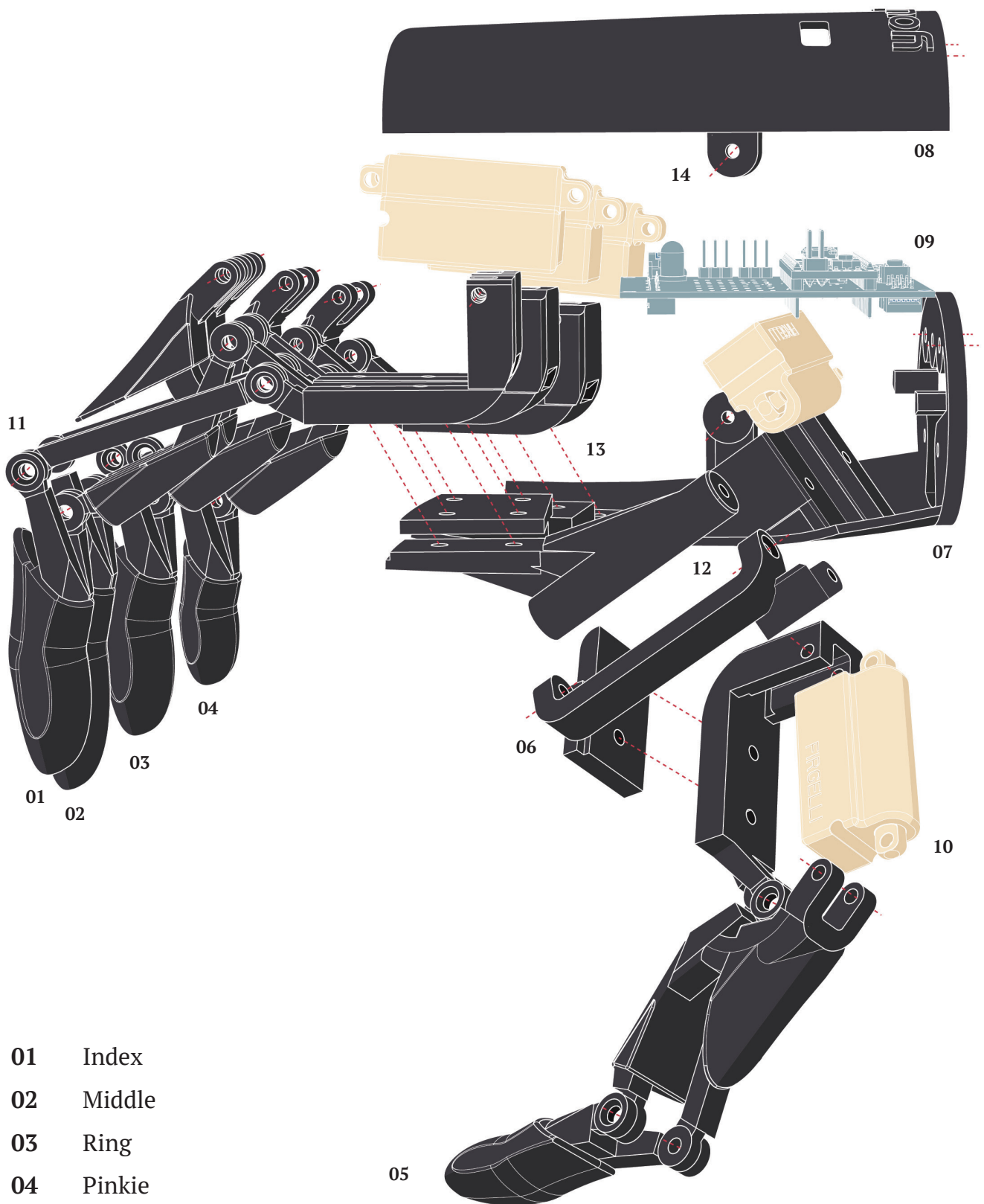
N° 1 Micro USB cable

N° 20 Screws M3x8 for finger assembly

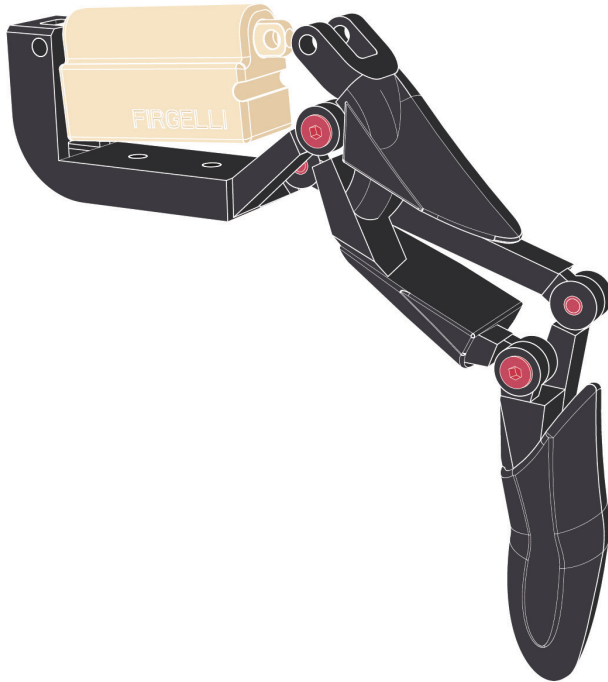
N° 2 Screws M3x15 for Rotation System assembly

N° 10 Screws M3x15 for finger assembly on palm

N° 3 Screws M3x15 for Back assembly



ASSEMBLY INSTRUCTIONS



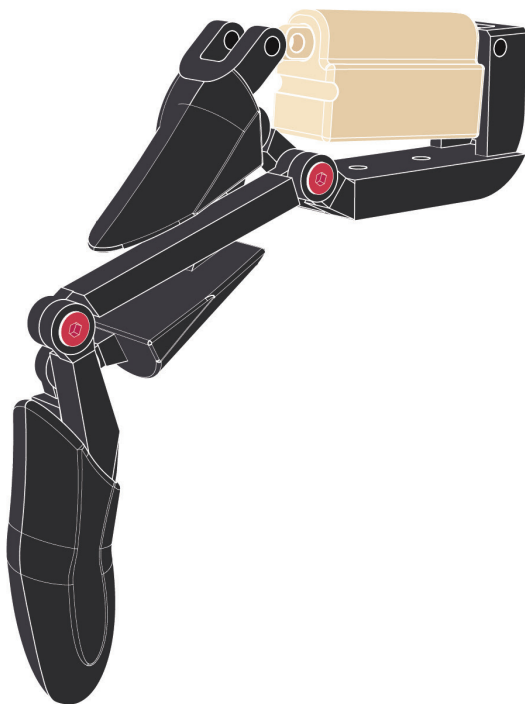
01 Finger assembly

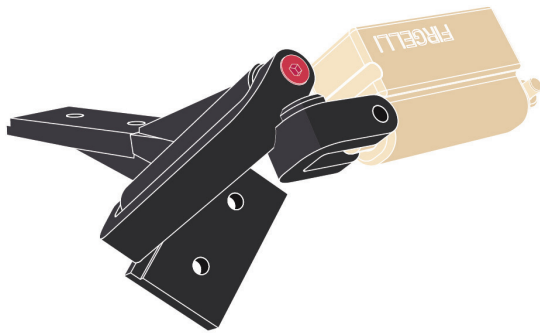
Tighten the **countersunk screws M3x8 with a hexagon socket** to assembly the fingers.

Don't screw the screws all the way down, let the pieces rotate (make sure that the pieces can rotate, but leave a slight friction).

Proceed in this way for all the fingers.

N° 20 screws M3x8
(N° 4 screws for each finger)

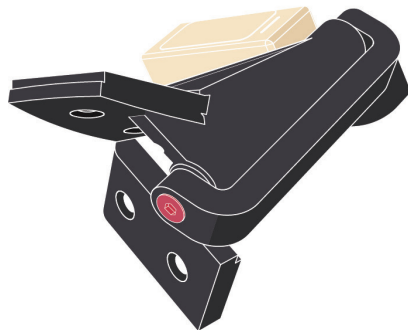




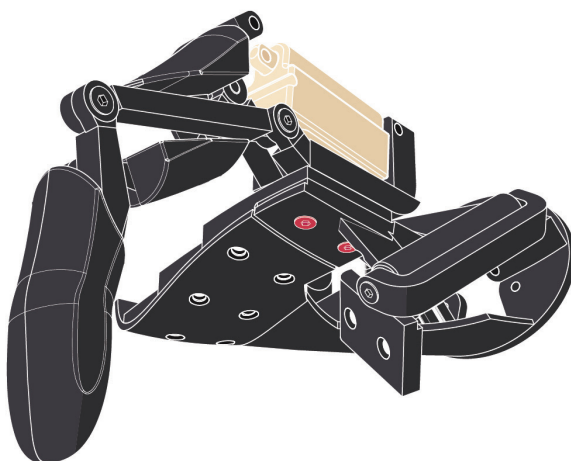
02 Rotation assembly

Tighten the **countersunk screws M3x15 with a hexagon socket** to assembly the rotation system.

Don't screw the screws all the way down, let the pieces rotate (make sure that the pieces can rotate, but leave a slight friction).



N° 2 screws M3x15



03 Palm assembly

Tighten the **countersunk screws M3x15 with a hexagon socket** to assembly fingers to palm.

To fix the fingers to the palm, go all the way to the bottom with the head of the screw without tightening it any more because the screw threading will damage the hole in the palm.

N° 10 screws M3x15
(N° 2 screws for each finger)

04 Back assembly

Tighten the **countersunk screws M3x15 with a hexagon socket** to assembly back to hand and forearm.

N° 3 screws M3x15

