

Standard digit size is 100. There are three finger sizes used in this hand: 90, 100 & 105

Middle Finger 105

Fore Finger 100

Ring Finger 100

Little Finger 90

All fingers and the thumb consist of three finger sections: the tip, MLP and PLP.

TIP

MLP – Middle Phalanges

PLP – Proximal Phalanges

Thumb 100

The fingers connect to the palm sections via the Knuckles.

8 x eMax ES33xx micro slim servos drive the fingers at the knuckle joint via tendons.

CMC – Carpometacarpal - the thumb knuckle joint consists of two pieces.

Wrist Assembly – has two pitch joints and a yaw joint to give the full range of human movement.

Forearm Assembly – houses 8 more slim micro servos and 3 serial servos for the wrist, a microcontroller, wireless comms, power converters and 2 x 18650 cells.

Battery Lid – removes for access to 2 x Li-Ion 18650 cells.

Axial wrist rotation is from a 3<sup>rd</sup> serial servo, standard size at the proximal end of the forearm assembly.

