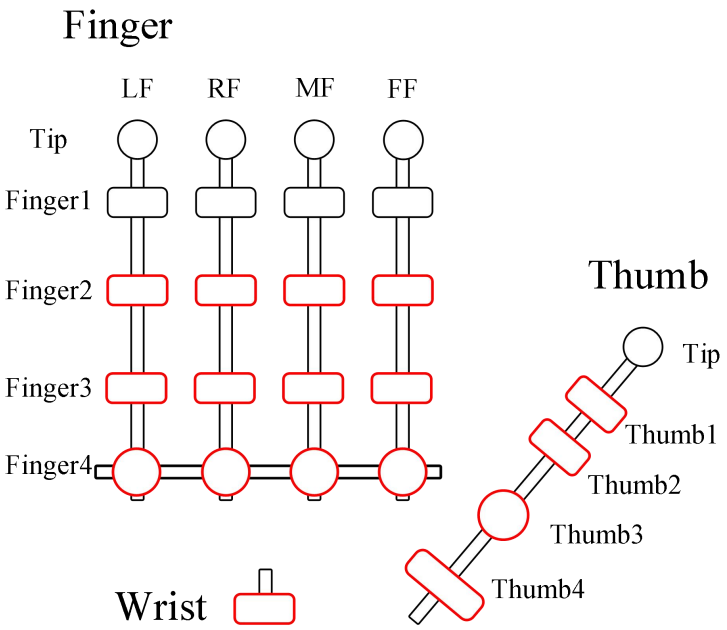


Joint Degrees of Freedom Diagram

The following represents the maximum allowable range of motion for this product; however, the actual controlled range of motion may be restricted to prevent structural impact, meaning the actual range of motion may be smaller than the maximum range specified below.

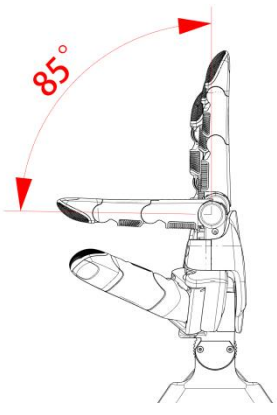
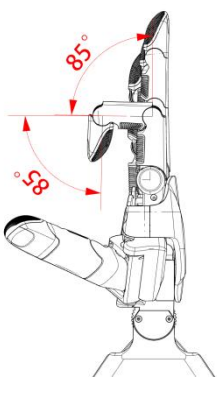
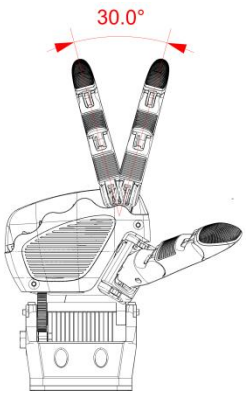


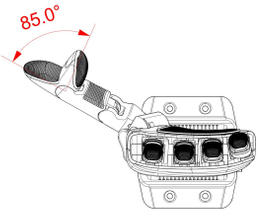
Illustration of the flexion angle at the four-finger joint



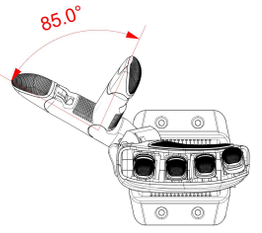
Flexion angles of the second and third joints of the four fingers



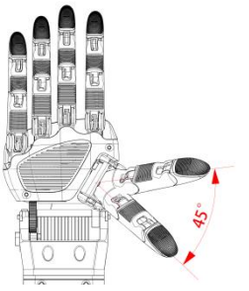
Four-finger lateral swing angle



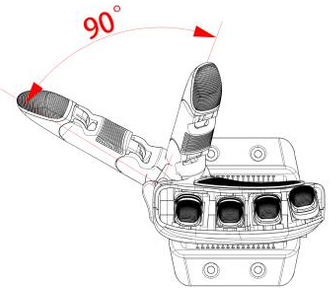
Thumb metacarpophalangeal joint



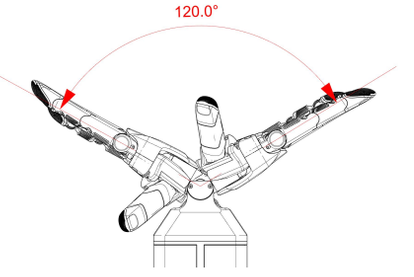
Second metacarpophalangeal joint



Dorsal thumb joint complex



Metacarpophalangeal joints of the thumb



Wrist range of motion

The table below shows the actual range of motion controlled by this product.

Muscle groups	Maximum Angle Range (degrees)	Maximum speed (degrees/s)
Wrist swing	44.7°	171.9°/s
Dorsal thumb swing	44.7°	406.3°/s
Thumb rotation	75.8°	315.8°/s
Dorsal thumb base	91.9°	437.6°/s
Thumb tip	85.4°	406.6°/s
Bending of the metacarpal roots of all four fingers	84.3°	443.6°/s
Bending of the fingertips of all four fingers	90°	450°/s
Flexion of the four finger tips (passive joint)	82.5°	-
Index finger lateral swing	21°	190.9°/s
Middle finger lateral sway	20.6°	187.2°/s
Ring finger lateral deviation	19.3°	241.2°/s
Little finger lateral swing	15.1°	302° /s