

MIA HAND

UNLIMITED GRASPING

POWERFUL

Up to 140 N grip force available in all grasping patterns.

SMART

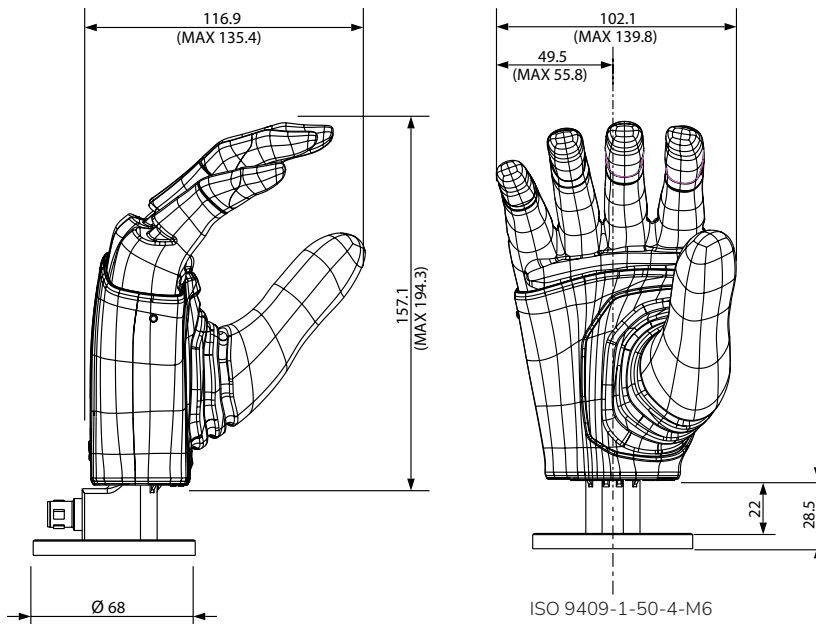
Embedded current, position and force* sensors allow for a variety of closed-loop control behaviours.

VERSATILE

5-in-1 multi-grasp anthropomorphic gripper for multiple industrial scenarios: hospitality, interfaces testing, maintenance and inspection, humanoid robotics. Integrated with ROS1 and ROS2.



THE ONLY FULLY CUSTOMIZABLE GRIPPER ON THE MARKET



MECHANICAL SPECIFICATIONS

Weight	540 g
Max size	140 × 135 × 190 mm
Max grasp force	44 to 140 N
Degrees of actuation/freedom	3/4
Closure time	0.4 s
Coupled fingers	Middle/Ring/Little
Maximum recommended payload for hanging grasp***	9 kg
Maximum recommended payload for friction grasp***	1 kg

ELECTRICAL SPECIFICATIONS

Power requirements	24V @2.5A peak
Communication	RS-485

CONTROL AND SENSORY SYSTEM

Embedded PID controllers	position, speed (1 kHz) grasp controller**
Configurable pre-set grasps	7
Position sensors (digital): 3	0.1 deg
Motor current sensors (analog): 3	1 mA (10 bits)
Limit switches (digital): 6	-
Force sensors (analog)*: 3	~50 mN (10 bits)

AVAILABLE MOVEMENTS

- Thumb flexion
- Index flexion and thumb opposition (semi-independent)
- Middle/Ring/Little flexion

*force sensors on thumb, index and middle fingers available on request

**force controller available soon

***safety factor = 2