

Collaborative Robot End Effector

3 HAND

Pipette:
Pipetty made by ICOMES LAB Co., Ltd.

Holding a dispensing pipette Holding a petri dish Holding a pen

Dexterity
Light-weight
Compact size

A more dexterous collaborative robot for more human-like movement

Features

- 1 **Dexterity=human-like =multiple fingers/multiple joints**
→ wide range of motion → can hold irregularly-shaped objects in a variety of positions.
- 2 **Compact / Light-weight (weight 290g, excluding mounting flange)**
→ Compatible with small cooperative robot arm (loading weight ~ 500 g), payload up to 100g.
Attachable to DENSO WAVE's collaborative robot, COBOTTA
- 3 **Safety=equipped with clutches, edgeless design**
→ Shock absorption in case of collision with a person.

Specifications

Max length (fully extended)	290mm	Safety clutch	Clutch equipped on each joint
Weight	290g (excluding mounting flange)	Control method	Command control
Fingers	3	Communication	Connection 1: COBOTTA communication Connection 2: external UART
Degrees of freedom	Total : 8DOF Thumb ('clever' finger) : 4DOF Standard fingers : 2DOF ※Standard → Fitting grip mechanism	Voltage	DC24V
		Feedback signal	Servo output angle Motor current
Max fingertip force	100g		

