

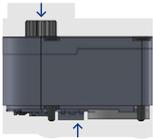
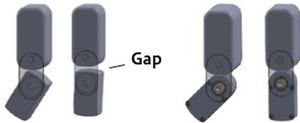
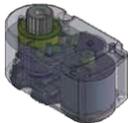
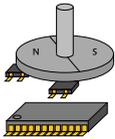


Micro Robot Servo

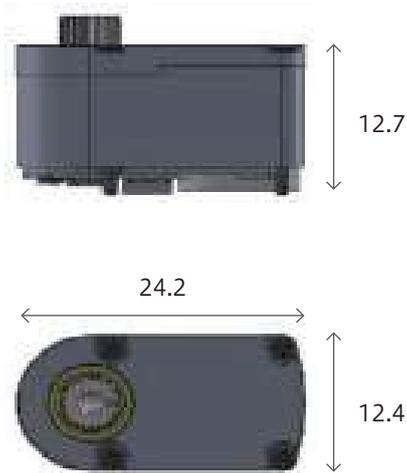
Micro servo optimized for small robot Smallest size in industry

Adamant Namiki developed a special micro servo for a small robot. In order to make the servo a perfect fit for each joint of the robot, an unprecedented compact design was achieved by assembling the motor, gears, and other key components in a precise and optimized layout within the limited space of the servo. Moreover, for reliability purposes, the servo has a newly developed clutch mechanism (torque limiter) that prevents internal gears from being damaged by unexpected external force. Also, for durability purposes, it has a non-contact potentiometer and $\Phi 10\text{mm}$ brushless motor.

Features

Compact size / Low noise	Optimized design for robot articulation	Clutch mechanism	Non-contact potentiometer
			
<p>Small step alignment structure Optimized gear material, module, and safety factor Smallest servo in the industry Substantial noise reduction with original high-precision speed reducer</p>	<p>Rounded arch of the small, thin servo makes sophisticated robot design possible</p>	<p>Backlash$\approx 0^\circ$ High durability The clutch attached to the output shaft protects internal gears from damage caused by excess load, as well as ensuring safety.</p>	<p>Thickness:0.38mm Non-contact type contributes to a long service life</p>

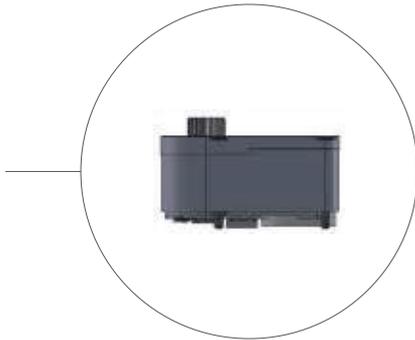
Dimension/Specification



Vin	3.7V
Output torque	147mNm
No load speed	98rpm
Backlash	1.5°
Clutch torque	200mNm
Weight	12g
Life time	500hrs
Control Method	Command control : Halfduplex serial communication

Applications

RoBoHoN



Namiki developed a special micro robot servo for a robotic smart phone called "RoBoHoN" produced by SHARP.

A total of 13 Namiki servos inside enable the cute gestures, complex actions, and rhythmical dances of RoBoHoN.

※"RoBoHoN" is a registered trademark of Sharp

Height : 195mm

weight : 390g

Collaborative RobotEnd Effector



3HAND

Safety by the equipped clutch

equipped with clutches, edgeless design→ Shock absorption in case of collision with a person.

Compact/light weight compatible with collaborative robot arm

Compatible with small cooperative robot arm (loading weight ~ 500 g), payload up to 100g. Attachable to DENSO WAVE's collaborative robot, COBOTTA

Human-like delicate movement

wide motion range→ can hold irregularly-shaped objects in a variety of positions.

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Details of this product

