

# Freedom From Work

# AIWORKER

AI Worker leverages imitation learning to learn from human behavior.

The robot uses real-time inference to perceive its environment and perform intelligent, learned actions.

## Specifications

\*Specifications are subject to change

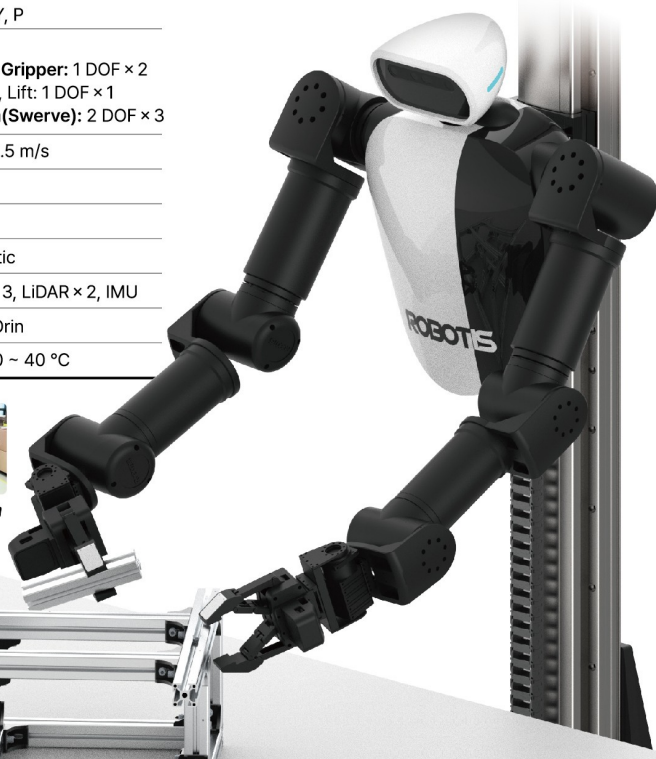
Dimensions	600 × 600 × 1,600 (mm) 23.6 × 23.6 × 63.0 (inches)
Weight	85 kg (190 lbs)
Arm Reach	647 mm (25.5 inches)
Mobile Type	Swerve Drive
Arm Payload	1.5 kg (3.3 lbs)
Actuator	DYNAMIXEL X, Y, P
Degrees of Freedom	Total: 25 DOF Arm: 7 DOF × 2, Gripper: 1 DOF × 2 Head: 2 DOF × 1, Lift: 1 DOF × 1 Mobile Platform(Swerve): 2 DOF × 3
Mobile Platform Speed(Swerve)	1.5 m/s
Battery	25.48V / 80Ah
Operating time	Up to 4 hours
Exterior Materials	Aluminium, Plastic
Sensors	RGBD Camera × 3, LIDAR × 2, IMU
Computer	NVIDIA Jetson Orin
Ambient Operating Temperature	0 ~ 40 °C

## Products

F	F	W	-	S	G	2
Product Name				Base	End Tool	Finger
				Basic	Gripper	2
				Swerve	Hand	3
				Omni	Vacuum	4
				Differential		5

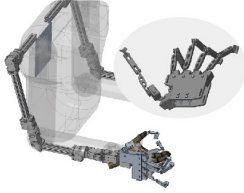


Application Examples



# ROBOTIS

## Features



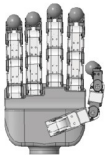
### Leader

To optimize the acquisition of imitation learning data, the leader is engineered as a wearable input device for seamless integration and precise control.

DYNAMIXEL significantly simplifies system architecture and reduces maintenance complexity.



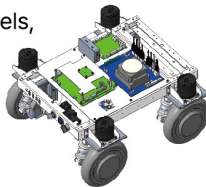
### DYNAMIXEL



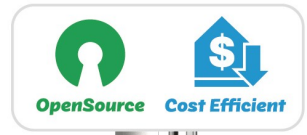
### Hand

A standard 2-finger gripper is included, with optional 4 or 5 finger hands available.  
3 degrees of freedom per finger.

Equipped with Swerve wheels, the AI Worker maintains high maneuverability and operational efficiency in confined environments.



### Swerve Drive



*ROS 2 packages for operating the AI Worker*



*ROS 2 package for LeRobotDataset generation*



*Simulation Environments*



*Hugging Face Model & Dataset*