Harmonic Arm 6M

Model 400 High performance arm for flexible manufacturing・testing・advanced R&D

Find and fetch objects using IR sensors both on the gripper and mobile platform.

Navigate, locate,fetch, and put in a cage a ball using only a camera mounted on the Arm's gripper.

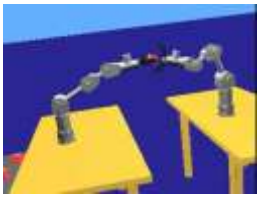
- Small, agile, high precision robotic arm with user-friendly functions for easy programming
- A new and feature-rich webinterface based on latest TCP/IP & web technology enables Model 400 ①to shorten program load and response times, ②to directly access logfiles, and ③to improve control pad functions and overall responsiveness
- Model 400 multi-stage controller allows more precise positioning, smoother movements, and stable position holding of the axes. Linear movements are now much more precise, quiet and smooth too
- Embedded LINUX processor makes fully stand-alone operation possible
- External or built-in controller models for easier installation/operation logistics.
- Reduction in size and weight: only 4.3kg
- Low power consumption: 96w (24V, 4A) max. DC only operation
- No safeguards are necessary for direct interaction with human workers.
- Available in a wide range of configurations (various available sensors, cameras, end effectors)
- Intelligent control which rapidly adopts to specific operational situations using sensor signal feedback.
- Distributed sensor and control systems enable quicker responses to any changes in local operational environment.
- Pick-and-place objects of up to 500g
- Can also be used for repeat reliability tests of control panels, switches, and buttons for various equipments
- Offers an automation solution for ①complex high-precision sequences, ② various assembly tasks for which manual labor has been required, and ③operations that demand high degree of flexibility which conventional cell production systems could not cover
- ①Stand alone operation, ②controlled by a host computer through USB interface, ③driven by PLC, ④coordinated operation with mobile robot platform and ⑤controlled by WEBOTS simulation software

Buialt-in controller type

Separate controller to suit installtion logistics

Webots 5

Powerful multipurpose simulator with pre-defined models for popular robots



Confirmation of delicate and sophisticated interplay between 2 arms using simulation.

Designing and "building" production line before expanding physical resources.

- Models and simulates any robots including wheeled, legged, arm, and flying robots.
- Transfers control to real mobile robots, shortening software development time.
- Equipped with pre-defined models of popular robots, such as e-puck, Khepera, Koala, LEGO Mindstorm, Harmonic Arm, AIBO, Hemission.
- Uses ODE(Open Dynamics Engine) library for accurate physical modelling and simulation of your own custom robot.
- Includes a library of various sensors and actuators.
- Lets you program the robots in C, C++ and Java, or from third party software through TCP/IP.
- The graphical user interface of WEBOTS allows you to easily interact with the simulation while it is running.
- Creates AVI or MPEG simulation movies for web and presentations such as Power Point slides.
- Includes example applications with source code.
- Lets you simulate multi-agent systems, with inter-robot communication facilities.
- Lets you simulate Harmonic Arm and a factory automation scenario without actually building facilities.
- Special package price when purchased with e-puck or Harmonic Arm.

Powerful multi-purpose robot simulator runs on PC and LINUX machines

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