

Team Roborator (Japan)



Development point

This robot system uses the force that the robot presses against parts to perform tasks. Therefore, there is no need for a program to control the end effector. As shown in the photo on the right, it can be gripped by simply inserting a pin into the tip of a hexagon socket head cap screw, and the bolt can be attached in place by simply pressing it against the insertion position.



Push



Pick up

Introduction of your team

【Inspiration, motivation to form a team】

The use of robots is indispensable to support Japanese manufacturing sites. There are many difficult issues, but members who are interested in robot technology and want to try new things gathered to form a team.

【Future outlook】

We struggled with the design of a hand that can grip parts of various shapes and sizes. We believe that more tasks can be accomplished by designing and using different hands for each component feature.

Role	Name	Affiliation/Title	Specialty, Field of study
Team leader	Kazunobu Nagao	Murata Manufacturing Co., Ltd. Robot Club Captain	Development of factory automation(FA) system
Image processing	Shigeki Tanaka	Murata Manufacturing Co., Ltd. Robot Club	Mechanical design of sintering process equipment
Mechanical designer	Kenta Kogano	Murata Manufacturing Co., Ltd. Robot Club	Design and development of production equipment
Mechanical designer	Junya Fujita	Murata Manufacturing Co., Ltd. Robot Club	Electrical design and software design for utilizing robots in the process
System engineer	Shin Hasegawa	Murata Manufacturing Co., Ltd. Robot Club	Embedded development, System Introduction / Maintenance

