

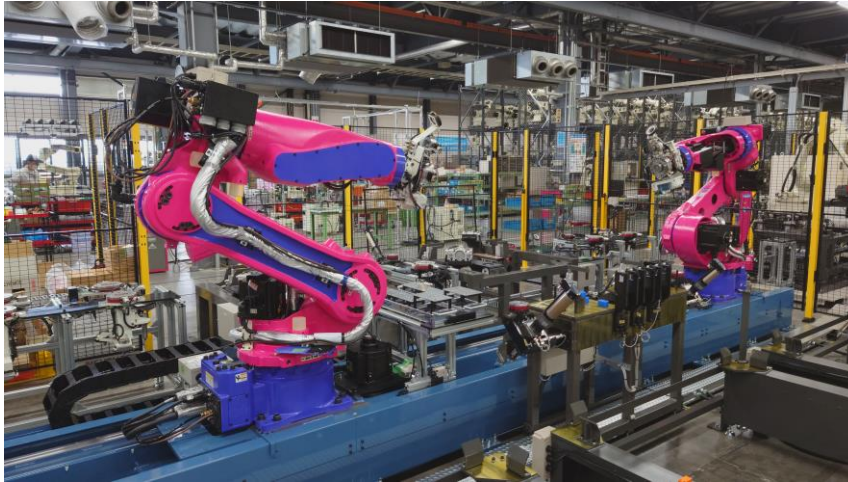


# One Robot Can Tighten Multiple Types of Screws in a Minimum Amount of Space

**Robot System for Screw Tightening**

## Robots make robots

Packaging of expertise in screw fastening automation



## ■ Supports screw tightening torque management

Failure to tighten screws and faulty fastening can be detected

(controls the torque change during rotation speed control, fastening, and at the end)

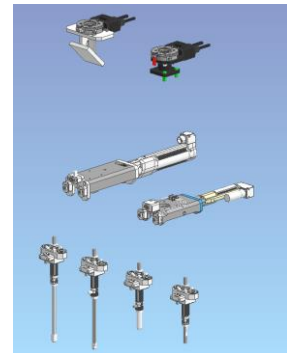
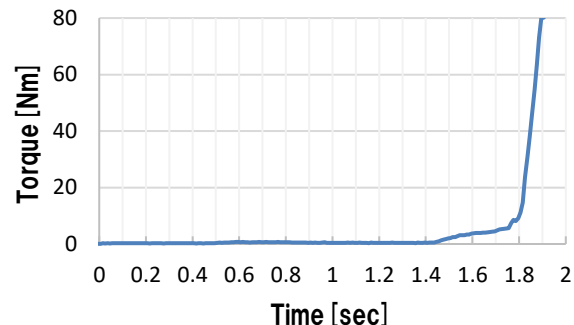
## ■ Traceability

Capable of saving fastening torque, waveform, etc. as well as fastening results

## ■ Available for various types of screw fastening

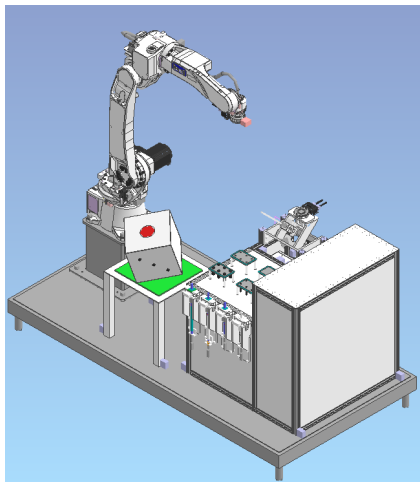
Our proprietary bit changing mechanism and servo device compatible tool changer enable automatic replacement to the optimal screw fastening tool

Fastening result



## Automatic screw fastening system

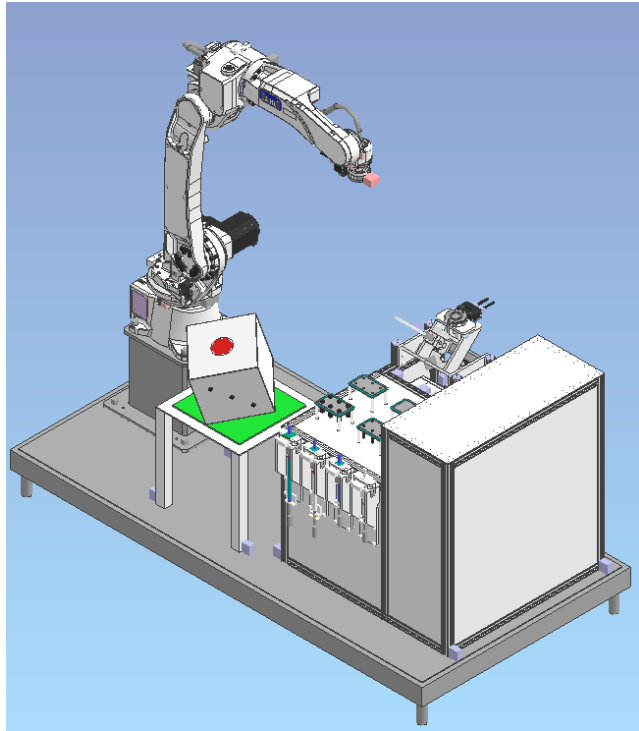
A single robot can tighten multiple types of screws



## Collaborative screw tightening system

Can be installed in a small space  
Collaborative work with workers





- Achieved multiple types of screw fastening with a single robot
  - Hexagon socket head cap screw: M6, M8, M10
  - Nut: M8
- Optimal tool selection
  - Nutrunner selection with different tool mounting angles (straight, 45°)
- Slim body with wide range of motion
  - Industry-leading 1833mm reach
  - Operation range increased by 15% compared to conventional models



FD-B26

① **Built-in cables** in hollow-structure arms

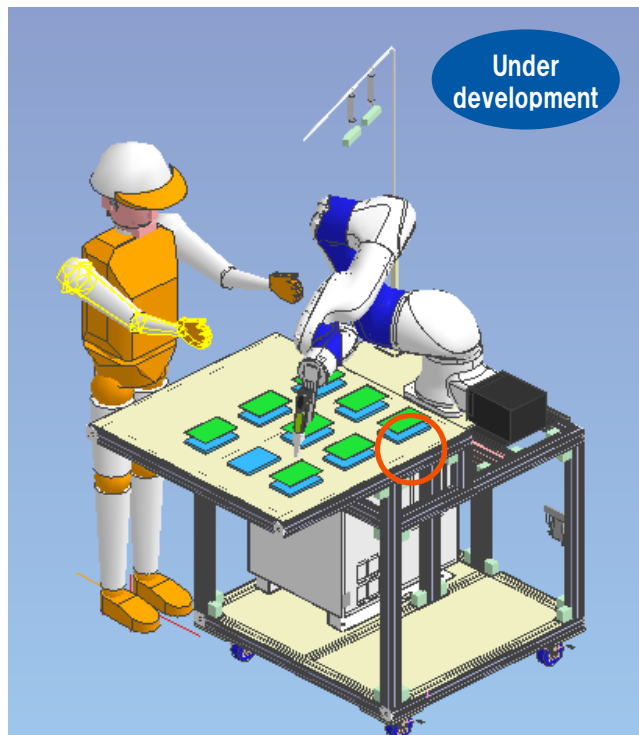
Interference with peripheral equipment caused by popping out of a hollow cable that can incorporate cables in the shoulder and wrist axis

② **Easy linkage with external devices**

Various signal lines and piping are provided as standard from the base to the shoulder connector box

③ **Diverse applications**

The payload of 26 kg is sufficient to mount various tools such as welding, workpiece transfer, and screw fastening



### ■ Collaborative work with people

- Tighten the 4-point screws on the board imitating the base (M4 pan head screws)
- Space-saving installation

### ■ Achieves a wide range of motion

- Long reach over 1.4m
- Expanding the operating range of each axis

**DAIHEN's screw tightening robot package can help you automate your screw tightening process.**



**DAIHEN**