

# Automatic Cable Alignment Winding Robot System



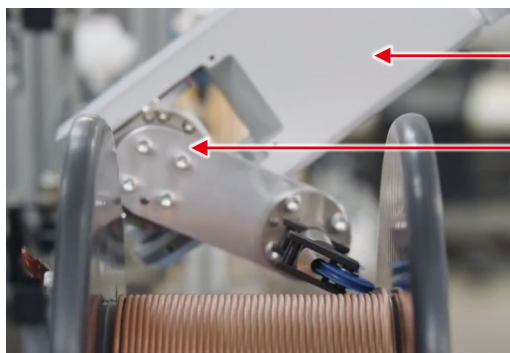
## » Features

**World first!** \*The line winding work that skilled workers used to do manually is made into a robot And this fully automated system achieve both labor saving and productivity \*HCI research

A delicate traverse turn at the bobbin (reel) end is mounted on the robot arm  
Achieving it with HCI 's independently developed HCI-RT robot traverse control system combined "force sensor" of Mitsubishi Electric



Watch the video of the robot here.



Manufactured by Mitsubishi Electric  
2 kg Portable 6-Axis Vertical Multi-Joint

Equipped with a force sensor from Mitsubishi Electric



### [Option]

- ① Inspection AI system (unwinding inspection AI function and back & retry function)
- ② HCI Cable Feeder: WPC-A Series (Sold Separately)

\*Use it together with the above equipment as a rewinding device for shipment.

It can be customized separately, such as automatic cable joints.

If it's a robot,  
Not only can it be replaced from traverse equipment, but it can also be applied to various work such as "bobbin replacement" and "cable joint".



Equipped with Mitsubishi Electric's force sense sensor option (high-speed and highly responsive SSCNET communication)

\*The subtle force of the person at the turning part at the end of the reel  
This is achieved in combination with a force sensor mounted on a robot arm



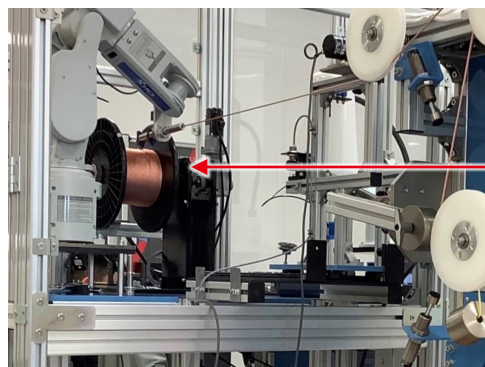
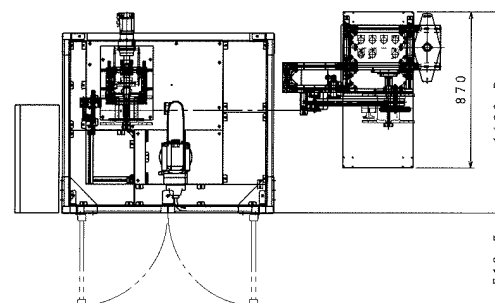
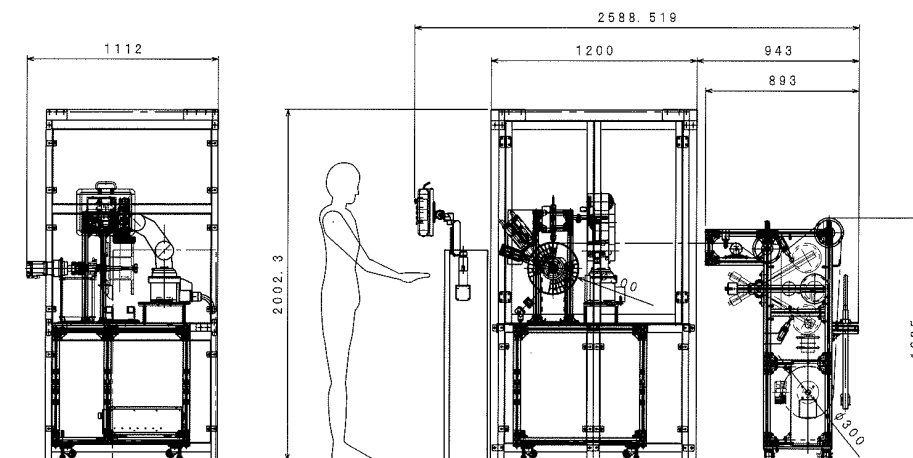
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## » equipment specification

① Robot	2 kg Portable 6-Axis Vertical Multi-Joint
② Workpiece	Conductor Diameter: $\phi 2 \sim \phi 3.3$ (Stranded Wire) *Please consult us about the type of cable
③ Application	Alignment winding of conductors and cables
④ Winding Bobbin Dimensions	P -30 (Flange Diameter: $\phi 300$ , Trunk Diameter: $\phi 130$ , Total Length: 160) P -10 (Flange Diameter: $\phi 200$ , Trunk Diameter: $\phi 110$ , Total Length: 134)
⑤ winding speed	Bobbin speed: MAX 90 rpm
⑥ Options	Inspection AI System Cable Supply Device (Sold Separately)
⑦ installation area of the equipment	Body: Approx. 1.8 m x 1.3 m (With Casters)
⑧ Weight	Approximately 1000 kg

## » conceptual diagram



**Winding Bobbin Dimensions**  
 •P -30 (Flange Diameter  $\phi 300$ )  
 •P -10 (Flange Diameter  $\phi 200$ )

