Automated Cable Alignment Winding Robot System

World first! *The line winding work that skilled workers used to do manually is made into a robot. And this fully automated system achieves 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.

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.*

Equipped with Mitsubishi Electric’s force 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.

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”.

Watch the video of the robot here.
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① Robot  2 kg Portable 6-Axis Vertical Multi-Joint

② Workpiece  Conductor Diameter: φ 2 ~ φ 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: φ 300, Trunk Diameter: φ 130, Total Length: 160)
   P -10 (Flange Diameter: φ 200, Trunk Diameter: φ 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

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