CLAIMS

1. An automation work station, comprising a control box and an electric control panel, the electric control panel comprising:

a wiring box, accommodated in the control box and comprising a pressure chamber and multiple docking sockets, the docking sockets comprising a pipeline socket, a network socket and a power socket, which communicates with the pressure chamber; and

an integrated external socket, disposed in the wiring box and comprising multiple connecting ports corresponding to the docking sockets, the connecting ports comprising a pipeline port communicating with the pressure chamber.

2. The automation work station according to claim 1, wherein the connecting ports further comprises:

a network port, electrically connected to the network socket; and

a power port, electrically connected to the power socket.

3. The automation work station according to claim 1, wherein a switch valve is disposed between the pipeline port and the pressure chamber.

4. The automation work station according to claim 1, wherein a pressure regulator is disposed between the pipeline port and the pressure chamber.

5. The automation work station according to claim 1, wherein the control box comprises a power switch disposed therein and electrically connected to the power socket.

6. The automation work station according to claim 1, wherein the control box comprises an electric power measurer disposed therein and electrically connected to the power socket.

7. The automation work station according to claim 1, wherein the control box comprises a power converter disposed therein and electrically connected to the power socket.

8. The automation work station according to claim 1, further comprising an integrated cable, the integrated cable comprising:

a cable body; and

a socket, docked to the integrated external socket, disposed on one end of the cable body, and comprising multiple connectors disposed therein corresponding to the connecting ports, wherein the connectors comprises a pipeline connector docked to the pipeline port, a network connector docked to the network port and a power connector docked to the power port.

9. The automation work station according to claim 8, wherein the cable body comprises a pipeline connected to the pipeline connector, a network signal line connected to the network connector and a power line connected to the power connector.

10. The automation work station according to claim 9, wherein the cable body comprises another socket disposed on another end thereof and same with the socket, the pipeline is connected to the pipeline connector in the socket and a pipeline connector in the another socket, the network signal line is connected to the network connector in the socket and a network connector in the another socket, and the power line is connected to the power connector in the socket and a power connector in the another socket.

11. The automation work station according to claim 1, further comprising:

a function equipment, disposed on the control box, connected to at least one of the docking sockets through the wiring box, and comprising a robotic arm, a screwing tool, a laser welding tool, an inserting tool, a screwing tool, a labelling tool, a dispensing tool, a fixture, an optical path module, a laser source or a tin feeder.

12. The automation work station according to claim 1, wherein the control box comprises a maintenance window, the wiring box comprises a wiring panel disposed toward the maintenance window, and the docking sockets are disposed on the wiring panel.

13. The automation work station according to claim 12, wherein the integrated external socket is disposed on the wiring panel.

14. An electric control panel, comprising:

a wiring box, comprising a pressure chamber and multiple docking sockets, the docking sockets comprising a pipeline socket, a network socket and a power socket, which communicates with the pressure chamber;

an integrated external socket, disposed in the wiring box and comprising multiple connecting ports corresponding to the docking sockets, the connecting ports comprising a pipeline port communicating with the pressure chamber; and

an integrated cable, comprising a cable body and a socket docked to the integrated external socket, wherein the socket comprises multiple connectors disposed therein corresponding to the multiple connecting ports of the integrated external socket.

15. The electric control panel according to claim 14, wherein the connecting ports further comprises:

a network port, electrically connected to the network socket; and

a power port, electrically connected to the power socket.

16. The electric control panel according to claim 14, wherein a switch valve is disposed between the pipeline port and the pressure chamber.

17. The electric control panel according to claim 14, wherein a pressure regulator is disposed between the pipeline port and the pressure chamber.

18. The electric control panel according to claim 14, further comprising a power switch disposed therein and electrically connected to the power socket.

19. The electric control panel according to claim 14, further comprising an electric power measurer disposed therein and electrically connected to the power socket.

20. The electric control panel according to claim 14, further comprising a power converter disposed therein and electrically connected to the power socket.