

# Pdu Intelligent Soldering Production Line

## Article Overview

A PDU Intelligent Soldering Production Line integrates automated soldering robots, quality control, and smart monitoring to efficiently manufacture intelligent Power Distribution Units (PDUs).

### Overview of Intelligent PDU Production

An intelligent PDU is a power distribution unit equipped with monitoring, metering, and control capabilities, often allowing outlet-level power management, remote switching, and daisy-chaining of multiple units to reduce IP usage . These PDUs are widely used in data centers and industrial applications where precise power management and monitoring are critical.

### Intelligent Soldering Production Line Features

A PDU intelligent soldering production line typically includes:

- **Automated Soldering Robots:** High-precision robots perform soldering of PDU components, including circuit boards, connectors, and wiring harnesses. These robots use motion control, image recognition, and structural design to ensure consistent quality .
- **Wire Harness and Cable Processing:** The line can integrate wire harness processing machines to assemble complex cabling systems required for PDUs .
- **Laser Welding and Non-Standard Automation:** Some production lines include laser welding for high-precision joints and custom automation solutions for specialized PDU designs ....

## Article Content

Feb 19, 2026

### Precision Robotic Soldering for Electronics Manufacturing

In high-volume electronics production, precision and reliability are non-negotiable. Comau delivers a

Jun 22, 2026

### Production of Power Distribution Units PDU

We take over the complete development of the HV-PDU for your application or produce according to your specifications. We take

Aug 08, 2025

### Bba Gantry Type PDU Solder Robot Dual Soldering System for Production Line

Product Description BBA Gantry type PDU solder robot dual soldering system for production line Automatic PDU soldering robot is

Mar 22, 2026

### Premium Robotic Soldering Solutions — Panda Robotics

World Class Robotic Soldering Solutions by Panda Robotics USA. Award Winning Soldering Technology.

Jun 10, 2026

### Power Distribution (PDU) Würth Elektronik

For customers who attach particular importance to modularity, short development times and enclosure that

Jan 27, 2026

### Advantages of Automatic Soldering Machine for PDU 1. Stable

Advantages of Automatic Soldering Machine for PDU 1. Stable & Consistent Soldering Quality Precise control of temperature, solder

Mar 22, 2026

### PANDA ROBOTICS USA — PROMATION USA

PROMATION USA is an 8-time technology award winner for Robotic Soldering. With Patented Technology,

Jan 04, 2026

## Inside OIT's PDU Production Line ⚙️ | Powering the Future of Data ...

Whether you're building for hyperscale or edge, OIT is your trusted PDU manufacturing partner. ☑️ Let's power smarter.

Jun 04, 2026

## Application and Prospect Analysis of Networked PDU in Industrial ...

Networked PDU is suitable for intelligent production lines, data centers and factory energy management systems. It

Jan 01, 2026

## Automated Soldering Machine | Factory Process Explained

Automated Soldering Machine | Factory Process Explained orient PDU 33 subscribers  
2

Jul 26, 2025

## Panda Intelligent Soldering Solutions | Innovative Technologies ...

PANDA Intelligent Soldering Solutions The PANDA Robotic Platform is the most impressive in-line robotic soldering system currently

Sep 26, 2025

## Congratulations on the first automatic assembly line of PDU in the ...

With the launch order issued by deputy general manager, Wu Meiwen, the world's first PDU automatic assembly line officially began

Aug 19, 2025

## iPower ACU | Intelligent PDU | Smart PDU

iPower ACU is the 3rd generation of iPower intelligent PDUs designed to aid Data Centre power

Apr 13, 2026

## Midan Systems

The Selectiva Xi is an advanced in-line selective soldering system engineered for mixed SMT/through-hole assembly production.

Dec 08, 2025

## A Guide to Top 9 Power Distribution Unit Companies

Top power distribution unit (PDU) companies in the world are entering partnerships, launching new products, and

Jul 06, 2026

Automatic PDU Soldring Robot Battery Solder Machine

Automatic PDU Soldring Robot Battery Solder Machine, Find Details and Price about Multi Axis Soldering Machine Auto Soldering

Aug 02, 2025

Server Technology Rack Power Distribution Units | Legrand

Server Technology intelligent PRO4X rack PDUs provide revolutionary insights and accuracy ( $\pm 0.5\%$  metering accuracy) for capacity

Nov 11, 2025

PANDA Intelligent In-Line Soldering Machine

All New State-of-the-Art Soldering Solution designed by PANDA Robotics (A specialty

Nov 20, 2025

Intelligent PDU | nVent DATA-SOLUTIONS

Changing your location may affect product availability. Certain products may not be available in all international regions. Current

Jun 22, 2026

Intelligent PDU | nVent DATA-SOLUTIONS

Enterprise, Hyperscale, Multi-tenant Power Distribution Intelligent PDU Intelligent PDU Intelligent PDU Subcategories Products |

Aug 12, 2025

EL2P Intelligent Power Distribution Unit

Managing and installing a rack power distribution unit (PDU) has never been easier than with the EL2P

Dec 24, 2025

Bba Gantry Type PDU Solder Robot Dual Soldering System for

Automatic PDU soldering robot is designed for durability, efficiency, and versatility in various soldering projects, which greatly

Jul 16, 2026

Power Distribution Unit | Smart (PDU) Power

Smart PDU Power Distribution Unit includes industrial PDU solutions and smart solutions for data centers.

Mar 06, 2026

Automatic Soldering Machine – The Optimal Solution for Modern ...

In today's modern electronics industry, the demand for precision, speed, and high production efficiency is greater than ever. To meet

Jan 22, 2026

Automotive Power Distribution Unit (PDU)

Automotive Power Distribution Unit (PDU) Design scalable, fail-operational automotive power distribution

Dec 12, 2025

Essential Guide to Robotic Soldering Systems

Seeking a soldering robot to improve the efficiency of your production process? Learn about the benefits of robotic soldering and how

Dec 15, 2025

New Product Development of a Robotic Soldering Cell

The product quality can also be improved even from the design process by using digital

Dec 18, 2025

High-Voltage Power Distribution Unit (HV PDU) Würth

Discover our HV PDU solutions – the powerful high-voltage power distribution units from 60 VDC to 1000

Jan 04, 2026

Robotic Soldering | PCB Assembly | Applications

A vital component in this process is the robotic soldering wire, which is fed through the robotic system to

Jan 29, 2026

Boost Production Line Efficiency with Wave Soldering Machines

Discover top-tier Wave Soldering machines essential for high-quality soldering. Learn how they can enhance your

Apr 19, 2026

High-Voltage Power Distribution Unit (HV PDU) Würth

In 2024, we expanded our technology and production center in Niedernhall-Waldzimmern – with a special

## Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://iiss.co.za>

Email: [sales@iiss.co.za](mailto:sales@iiss.co.za)

Phone: +27 63 174 2895

Address: Unit 8, Innovation Park, 15 Rivonia Road, Sandton, Johannesburg, 2196, South Africa

This document is for informational purposes only. Specifications subject to change without notice.

