工缝界

Industrial Sewing Field

POWERMAX "IoT + AI" NUMERICAL CONTROL PRODUCTS

POWERMAX Classic Series

TWO DECADES OF EXPERTISE, DELIVERING PRODUCTS THAT DELIGHT AND INTELLIGENTLY INSPIRE NEW EXPERIENCES.

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Power Technology And Max Integration

New Product Highlights

Next-Generation ASD73S+ Series

Smart IoT Sewing Numerical Control System

Core Features

1 **Outstanding Expandability**:

Equipped with 11 output ports, 9 universal inputs, and 2 analog inputs, the system adapts seamlessly to various sensors, fully meeting diverse production demands.

2 **High-Precision Operation**:

Programmable electronic handwheel ensures stable low-speed movement and strong signal penetration, effortlessly handling genuine leather up to 2.5 mm thick across six layers. Ergonomically designed, it delivers silky-smooth, refined control, greatly enhancing both operational efficiency and tactile experience.

3 **Comprehensive Smart Functions:**

One-button needle lift and threading switch ensures safe and efficient operation; stop-damping lock prevents needle bar slippage, protecting the leather; and startup auto-positioning delivers smooth, stable needle engagement.

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Core Advantages

✅ **All-in-One:**

Equipped with a built-in IoT chip for seamless cloud management, the device enables real-time monitoring of sewing data and remote parameter adjustments via a mini-program, while offering broad compatibility with multiple control panels for effortless, one-stop remote operation and maintenance.

✅ **High-Efficiency Coordination:**

Supports communication across multiple machines and one-button switching between diverse sewing modes, maximizing production efficiency and operational synergy.

✅ **Human-Centered Design:**

Electronic handwheel interface ensures smooth control.

Product Specifications

Category	Index
Motor Type	650W/5000rpm 1000W/3500rpm
Power Voltage Range	Single-phase 220V ± 20%
Max Torque	11 Nm
Maximum Back-Tacking Speed	2500rpm@4.0mm
Operation Panel	4.3" Color LCD Touchscreen
Programming Patterns	★
Trimmer/Wiper/Clamp	★
Extending IoT Port	★
IoT Data	CT/Piece Counting/Remote Control
Input Signal Port	11
Output Signal Port	11
Software Upgrade Mode	USB Update

Next-Generation AHE5C+ Series

Smart IoT Sewing Numerical
Control System

Core Features & Advantages

1 **All-in-One Compatibility:** Fully supports lockstitch/synchronous/twin-needle/heavy-duty machines.
2 **Performance Breakthrough:** Enhanced capacity for thick materials; algorithms comprehensively upgraded.
3 **Stable & Durable:** Exceptionally reliable operation designed for long-term use.
4 **Intelligent Operation:** One-button stop-and-lock; adjustable damping ensures smooth, precise control.

✅ Smart factory data visualization

✅ Real-time production anomaly alerts

✅ Remote equipment health diagnostics

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Technical Highlights & Specifications

新一代AHE5C+系列
智能物联网数控系统

→ **Wide-Speed Compatibility:** Supports a broad range of speeds, up to 5,000 rpm.

→ **Powerful Yet Quiet:** Sewing start force increased by 25% while noise reduced by 40%.

→ **Cloud-Connected:** Real-time data visualization + remote operation/maintenance

→ **Flexible Parameters:** Preset modes with full support for customized configurations.

Category	Index
Motor Type	500-1000w 1500-5000rpm
Power Voltage Range	Single-phase 220V ± 20%
Max Torque	4.5-11 Nm
Maximum Back-Tacking Speed	5000rpm
Operation Panel	IoT HMI Panel
Trimmer/Wiper/Clamp	★
Extending IoT Port	★
IoT Data	CT/Piece Counting/Remote Control
Input Signal Port	3-5
Output Signal Port	5-7

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Next-Generation ASE74+ Series

Stepper Interlock Smart IoT Sewing Numerical Control System

Key Highlights

1 Extreme Speed & Productivity

Delivers up to 6,000 rpm, maintaining stable operation without slowdown, significantly boosting production efficiency.
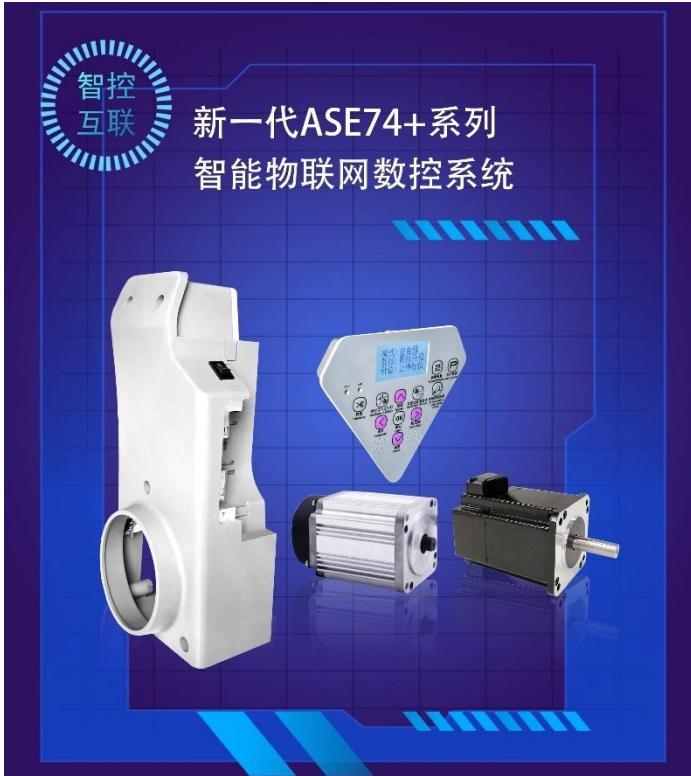
2 Smart & Stable Operation

Advanced closed-loop control guarantees consistent, neat stitching. Automatic presser foot lift and auto thread trimming save time, reduce effort, and ensure worry-free operation.

3 Multi-Function Flexibility

One-button operation for reinforced stitching, dense stitching, and lockstitching. Prevents loose thread ends for durable, secure seams. Multi-stage foot pedal adjustment adapts to varying sewing requirements, providing maximum operational flexibility.

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新一代ASE74+系列
智能物联网数控系统

Key Highlights & Specifications

4 **Smart IoT Connectivity**

✅Real-Time Data Monitoring:
Automatically tracks needle counts and thread trims, giving operators immediate, transparent insight into production performance.

✅Compatible with Three Display Types:
(Touchscreen/segment display/dot-matrix display), easily adapting to various factory environments and requirements.

Category	Index
Motor Type	650W/6000rpm
Power Voltage Range	Single-phase 220V $\pm$ 20%
Max Torque	4.7 Nm
Maximum Back-Tacking Speed	6000rpm
Operation Panel	TFT HMI Dot-Matrix Display
Trimmer/Wiper/Clamp	★
Extending loT Port	★
loT Data	CT/Piece Counting/Remote Control
Input Signal Port	3
Output Signal Port	5

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Next-Generation Smart Control HMI

✅ **[Product Overview]**

→ Fully compatible with all lockstitch, synchronous, twin-needle, and heavy-duty sewing machines.

→ Intelligent networking (Wi-Fi/BLE Bluetooth), effortless operation via mobile app, with remote parameter adjustment and maintenance.

→ Comprehensive sewing data collection (CT/piece counting, remote operation/maintenance) with full support for cloud platform and edge computing.

✅ **[Product Advantages]**

→ Simple and intuitive interface, easy to navigate and recognize, with fast, responsive knobs for effortless operation.

→ Networked control panel with real-time updating of sewing data on the backend.

→ Flexible parameter sets for multi-machine adaptation, fully customizable for specialized production requirements.

High-Torque Motor

[1000 W Servo Motor]   [60 mm Stepper Motor]

[86 mm Stepper Motor]   [1000 W Hollow Shaft Motor]

Motor Specifications	
Operating Voltage	AC220V
Rated Power	1000W
Rated Speed	2000-4500r/min
Typical Torque	7-11N.m
Pole Pairs	2-5
Typical Current	2-10A
Rotary Encoder Resolution	600 PPR

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