



Your specialist in automatic
screwdriving solutions

Product Catalog

Dongguan Kingdom machine technology Co.Ltd

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**Cabinet-type Back-to-Back 6-Axis Dual-head
Screw Fastening System**

11、柜式背靠背六轴双头视觉螺丝机

**Cabinet-type Back-to-Back 6-Axis Dual-head
Vision Screw Fastening System**

1、 3-Axis Automatic Screw Fastening Machine----configuration



Advantages & Highlights: 3-Axis Single-Platform , Compact footprint , versatile, space-efficient integration

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Two mode of screw feeding : Vacuum/Magnetic absorption
- Multi-surface compatibility: Deep/angled holes, curved surfaces, height-varied planes (magnetic mode)
- Enables dual-screw fastening on single workpiece with intelligent servo driver supporting three independent torque presets
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 260*240*90mm (X*Y*Z) ;
- Outline dimension : 570*520*730mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: : 1.5s-1.8s/screw
- Program capacity: 100 Recipes
- Power Consumption: 600W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 45Kg

2、 4-Axis Automatic Screw Fastening Machine----configuration



Advantages & Highlights: : 4-Axis Dual-Station System with Alternating Operation Mode, boost productivity

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Two mode of screw feeding : Vacuum/Magnetic absorption
- Multi-surface compatibility: Deep/angled holes, curved surfaces, height-varied planes (magnetic mode)
- Enables dual-screw fastening on single workpiece with intelligent servo driver supporting three independent torque presets
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 210*410*90mm (X*Y*Z) ;
- Outline dimension : 710*730*780mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: : 1.5s-1.8s/screw
- Program capacity: 100 Recipes
- Power Consumption: 750W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 100Kg

3、 4-Axis Pneumatic Robotic Screwdriving Machine ----configuration



Advantages & Highlights: : 4-Axis Pneumatic Dual-Station System with Alternating Operation Mode, boost productivity

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Pneumatic Screw Feeding
- Smart servo driver
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 210*410*90mm (X*Y*Z) ;
- Outline dimension : 710*730*780mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: : 1.5s-1.8s/screw
- Program capacity: 100 Recipes
- Power Consumption: 750W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 100Kg

4、 6-Axis Automatic Screw Fastening Machine----configuration



Advantages & Highlights: : 6-Axis Dual Screwdriver Dual Station System with Alternating Operation Mode, boost productivity

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Two mode of screw feeding : Vacuum/Magnetic absorption
- Multi-surface compatibility: Deep/angled holes, curved surfaces, height-varied planes (magnetic mode)
- Enables dual-screw fastening on single workpiece with intelligent servo driver supporting three independent torque presets
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 210*410*90mm (X*Y*Z) ;
- Outline dimension : 900*870*780mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: : 1.5s-1.8s/screw
- Program capacity: 100 Recipes
- Power Consumption: 750W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 100Kg

5、 6-Axis Pneumatic Robotic Screwdriving Machine ----configuration

Advantages & Highlights: 6-axis Dual Screwdriver with Pneumatic Screw Feeding, Dual Workstations and Dual Screw Hopper, Enabling Alternating Operation and High Production Efficiency

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Pneumatic Screw Feeding
- Smart servo driver
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 210*410*90mm (X*Y*Z) ;
- Outline dimension : 900*870*780mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: : 1.0s-1.5s/screw
- Program capacity: 100 Recipes
- Power Consumption: 1050W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 150Kg



6、 6-Axis Back-to-Back Automatic Screw Fastening Machine ---- configuration



Advantages & Highlights: 6-axis Back-to-Back Dual Screwdriver system with dual workstations and dual screw hoppers, Enabling dual-screw fastening on single workpiece and High Production Efficiency

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Two mode of screw feeding : Vacuum fed/Blow-fed
- Smart servo driver
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 230*2000*90mm (X*Y*Z) ;
- Outline dimension : 760*930*740mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: 1.0s-1.5s/screw
- Program capacity: 100 Recipes
- Power Consumption: 1050W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 150Kg

7、 4-Axis Desktop Vision Screw Fastening System----configuration

Applications:

Applicable to screw fastening of 3C Electronics, Home Appliances

Core Features:

- Integrated vision system with smart electric screwdriver and PC-based control, featuring compact design, high cost-effectiveness, and scalable architecture
- IPC motion control system with visual programming and unlimited data storage capacity
- CCD vision positioning system with automatic defective screw hole detection
- CCD assisted teaching of screw coordinate points to eliminate manual visual alignment errors
- Real-time graphical monitoring of fastening positions/results, make it easy to find the NG points
- Equipped with Smart electric screwdriver (optional) with arbitrary torque/RPM configuration and torque waveform analysis
- Equipped with displacement sensor for auto-correction of floating defects
- Equipped with a driver bit pressure transducer for real-time downward force monitoring during screw fastening
- Integrated AI-Powered Defect Inspection System, Detection of Missed Screws Floating Screws , Cross-Threading/Stripped Threads.
- Equipped with full production traceability tracking and MES integration capability (optional)

Technical parameters :

- Outline dimension : 660*680*950mm (W*L*H)
- Work Envelope : 220*220*70mm (X*Y*Z)
- Drive System : X/Y/Z-axis Stepper-Driven Timing Belt
- CCD Accuracy: $\pm 0.02\text{mm}$
- Operating System: Windows 10
- Control System : IPC + 5 million pixels CCD+ high-performance motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Programming way: CCD coordinate teaching+ CAD coordinate import + tutoring
- Cycle Time: 2.0 / screw
- operation interface: 17 inch LCD + Keyboard + mouse
- Power supply: 220VAC、50HZ
- Air Supply: 0.4~0.7Mpa



8、 4-Axis Compact Screw Fastening System----configuration



Applications:

Applicable to screw fastening of 3C Electronics, Home Appliances

Core Features:

- Integrated vision system with smart electric screwdriver and PC-based control, featuring compact design, high cost-effectiveness, and scalable architecture
- IPC motion control system with visual programming and unlimited data storage capacity
- CCD vision positioning system with automatic defective screw hole detection
- CCD assisted teaching of screw coordinate points to eliminate manual visual alignment errors
- Real-time graphical monitoring of fastening positions/results, make it easy to find the NG points
- Equipped with Smart electric screwdriver (optional) with arbitrary torque/RPM configuration and torque waveform analysis
- Equipped with displacement sensor for auto-correction of floating defects
- Equipped with a driver bit pressure transducer for real-time downward force monitoring during screw fastening
- Integrated AI-Powered Defect Inspection System, Detection of Missed Screws Floating Screws, Cross-Threading/Stripped Threads.
- Equipped with full production traceability tracking and MES integration capability (optional)

Technical parameters :

- Outline dimension : 750*750*1650mm (W*L*H)
- Work Envelope : 250*250*70mm (X*Y*Z)
- Drive System : X/Y/Z-axis Stepper-Driven Timing Belt
- CCD Accuracy: $\pm 0.02\text{mm}$
- Operating System: Windows 10
- Control System : IPC + 5 million pixels CCD+ high-performance motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Programming way: CCD coordinate teaching+ CAD coordinate import + tutoring
- Cycle Time: 2.0 / screw
- operation interface: 21.5 inch LCD + Keyboard + mouse
- Power supply: 220VAC、50HZ
- Air Supply: 0.4~0.7Mpa

9、Cabinet-type 4-Axis Vision Screw Fastening System----configuration

Applications:

Applicable to screw fastening of 3C Electronics, Home Appliances

Core Features:

- Integrated vision system with smart electric screwdriver and PC-based control, featuring compact design, high cost-effectiveness, and scalable architecture
- IPC motion control system with visual programming and unlimited data storage capacity
- CCD vision positioning system with automatic defective screw hole detection
- CCD assisted teaching of screw coordinate points to eliminate manual visual alignment errors
- Real-time graphical monitoring of fastening positions/results, make it easy to find the NG points
- Equipped with Smart electric screwdriver (optional) with arbitrary torque/RPM configuration and torque waveform analysis
- Equipped with displacement sensor for auto-correction of floating defects
- Equipped with a driver bit pressure transducer for real-time downward force monitoring during screw fastening
- Integrated AI-Powered Defect Inspection System, Detection of Missed Screws Floating Screws, Cross-Threading/Stripped Threads.
- Equipped with full production traceability tracking and MES integration capability (optional)

Technical parameters :

- Outline dimension : 850*850*1650mm (W*L*H)
- Work Envelope : 280*280*70mm (X*Y*Z)
- Drive System : X/Y/Z-axis Servo Lead Screw
- CCD Accuracy: $\pm 0.02\text{mm}$
- Operating System: Windows 10
- Control System : IPC + 5 million pixels CCD+ high-performance motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Programming way: CCD coordinate teaching+ CAD coordinate import + tutoring
- Cycle Time: 2.0 / screw
- operation interface: 21.5 inch LCD + Keyboard + mouse
- Power supply: 220VAC、50HZ
- Air Supply: 0.4~0.7Mpa



10.Cabinet-type Back-to-Back 6-Axis Dual-head Screw Fastening System-configuration



Advantages & Highlights: Back-to-Back 6-Axis Dual Screwdriver Dual Station System with Alternating Operation Mode, boost productivity

Applications:

Applicable to Smartphones, Cordless Phones, Calculators, GPS Devices , Audio Systems, Cameras, Educational Tablets, Small Appliances, Toys

Core Features:

- Two mode of screw feeding : Vacuum/Magnetic absorption
- Multi-surface compatibility: Deep/angled holes, curved surfaces, height-varied planes (magnetic mode)
- Enables dual-screw fastening on single workpiece with intelligent servo driver supporting three independent torque presets
- Reinforced sheet metal frame with height-adjustable feeder enables universal compatibility for multi-height workpieces
- Closed-loop stepper motor with micro-stepping precision enables real-time position compensation, step-loss prevention, and minimized resonance
- Integrates high-performance motion control system with one-touch programming interface
- Integrated with Weinview® HMI touchscreen for dynamic visualization of fastening process, enabling real-time monitoring of driver RPM and torque output

Technical parameters :

- Work Envelope : 230*410*90mm (X*Y*Z) ;
- Outline dimension : 1100*850*1667mm (W*L*H)
- Drive System : Closed-loop stepper motor
- Positioning Accuracy : ± 0.02 mm
- Control System : Touchscreen + Motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Cycle Time: : 1.5s-1.8s/screw
- Program capacity: 100 Recipes
- Power Consumption: 1200W
- Power supply: 220VAC
- Air Supply: 5-6KPa
- Weight: 250Kg

11、Cabinet-type Back-to-Back 6-Axis Dual-head Vision Screw Fastening System



Applications:

Applicable to screw fastening of Mobile phone, Smartwatches , Tablet etc.

Core Features:

- Dual X/Y Back-to-Back Configuration Supports Front Deposit, Rear Retrieval, and Dual-Front Access
- IPC motion control system with visual programming and unlimited data storage capacity
- CCD vision positioning system with automatic defective screw hole detection
- CCD assisted teaching of screw coordinate points to eliminate manual visual alignment errors
- Real-time graphical monitoring of fastening positions/results, make it easy to find the NG points
- Equipped with Smart electric screwdriver (optional) with arbitrary torque/RPM configuration and torque waveform analysis
- Equipped with displacement sensor for auto-correction of floating defects
- Equipped with a driver bit pressure transducer for real-time downward force monitoring during screw fastening
- Integrated AI-Powered Defect Inspection System, Detection of Missed Screws Floating Screws , Cross-Threading/Stripped Threads.
- Equipped with full production traceability tracking and MES integration capability (optional)

Technical parameters :

- Outline dimension : 800*1150*1650mm (W*L*H)
- Work Envelope : 120*220*70mm (X*Y*Z)
- Drive System : X/Y/Z-axis Servo Lead Screw or Stepper-Driven Timing Belt
- CCD Accuracy: $\pm 0.02\text{mm}$
- Operating System: Windows 10
- Control System : IPC + 5 million pixels CCD+ high-performance motion control card
- Driver System: Smart servo driver with programmable torque and RPM presets
- Programming way: CCD coordinate teaching+ CAD coordinate import + tutoring
- Cycle Time: 2.0 / screw
- Operation interface: 21.5 inch LCD + Keyboard + mouse
- Power supply: 220VAC、50HZ
- Air Supply: 0.4~0.7Mpa



Your specialist in automatic
screwdriving solutions

THANK YOU

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