Professional Manufacturer Of Nailless Plywood Wooden Box Equipment

ZHIWERKS

COMPANY BROCHURE

ZHUCHENG ZHIWEI INDUSTRIAL EQUIPMENT CO., LTD.

Built for Efficient Packaging Production

CNC panel sizing · Automated fastening
Steel-edge forming · Hydraulic pressing



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OVERVIEW

THREE CHAPTERS, ONE COMPLETE PACKAGING SOLUTION

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COMPANY

COMPANY

Company profile, development path and core values.

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BUSINESS

Complete line, target industries and delivery capabilities.

03

EQUIPMENT

PRODUCTS

Four core machines, key data and standard workflows.

One manufacturer. Four core machines. One turnkey production line.

01 /
COMPANY

Built for Steel-Edged Box Production

COMPANY PROFILE



Founded in March 2023, Zhiwerks develops and manufactures machinery for industrial logistics packaging. We provide one-stop steel-edged plywood box solutions covering equipment selection, installation, commissioning and after-sales support.

2023.03
Established

5,000 m²
Production Base

30+
Technical Patents

CE / ISO
Certified Systems

R&D · Manufacturing · Global Sales · Lifecycle Service

From Startup to Turnkey Capability

DEVELOPMENT ROADMAP

2023.03
FOUNDED
The company entered the industrial equipment manufacturing sector.

2023–2024
FOCUSED R&D
A core engineering team developed steel-edged plywood box machinery.

2025
PORTFOLIO LAUNCH
A full equipment series reached the market with stable performance.

2026+
TURNKEY GROWTH
CNC panel sizing completed the end-to-end production portfolio.

Technology-led. Quality-driven. Creating lasting value for industrial packaging.

Four Values Behind Every Delivery

VALUES THAT DRIVE EVERY DELIVERY

> **Focus builds expertise. Innovation drives progress. Quality earns trust. Service creates value.**

01

FOCUS

Practical solutions built around real packaging-production challenges.

02

INNOVATION

Continuous engineering upgrades improve efficiency and consistency.

03

QUALITY

Disciplined manufacturing delivers reliable equipment for continuous work.

04

SERVICE

Responsive support from consultation through commissioning and after-sales.

Four Machines. One Complete Line.

TURNKEY EQUIPMENT PORTFOLIO



01 CNC PANEL SAW

Precision plywood sizing for repeatable downstream production.



02 FASTENING + FORMING

Automated buckle installation and steel-edge profile production.



03 HYDRAULIC PRESS

Uniform high-force joining for flat, durable box panels.

Packaging for Demanding Industrial Cargo

INDUSTRIES AND APPLICATIONS



Standardized Structure · Flexible Sizes · Reliable Protection

01 **MACHINERY**

Rigid, moisture-resistant protection for machine tools and heavy parts.

02 **AUTOMOTIVE**

Customized protection for engines, transmissions and body components.

03 **ELECTRONICS**

Shock, moisture and internal-support solutions for precision equipment.

04 **LOGISTICS**

Reusable standardized packaging improves handling and inventory flow.

Optimized structures balance lower weight, reliable protection and efficient handling.

Four Machines. One Production System.

INTEGRATED STEEL-EDGED BOX PRODUCTION

01



PANEL SIZING

CNC rip and cross cutting to required dimensions

02



FASTENING + FORMING

Buckle installation and steel-edge roll forming

03



HYDRAULIC PRESSING

Uniform joining of steel edges and prepared plywood

One partner · Coordinated workflow · Consistent finished quality

03 /
PRODUCT 01

CNC Panel Saw: Precision at the First Step

CNC PANEL SAW



The CNCJ-1224 sizes plywood before buckle installation and steel-edge assembly. Programmable rip and cross cutting prepares accurate panels and improves consistency throughout the production line.

01 **PRECISION SIZING**

Programmable rip and cross cuts deliver repeatable panels.

02 **FAST PREPARATION**

High-speed cutting supplies correctly sized plywood.

03 **CNC CONTROL**

Digital settings simplify operation and reduce variation.

04 **LINE-READY OUTPUT**

Panels move directly to fastening and edge forming.

CNC Panel Saw: Complete Technical Data

SPECIFICATIONS AND MACHINE DATA

CORE TECHNICAL PARAMETERS

2,600 mm	Max. processing length
1,300 mm	Max. processing width
100 mm	Max. cutting thickness
0–36 m/min	Cutting speed
21 kW	Total installed power

ADDITIONAL MACHINE DATA

01	BLADE SPEED	5,000 rpm
02	WORKING AIR	0.6–0.8 MPa
03	MACHINE SIZE	4,000 × 2,200 × 2,000 mm
04	MACHINE WEIGHT	Approx. 3,000 kg

03 /
PRODUCT 02

Buckle Machine: Fast, Precise Fastening

NAILLESS PLYWOOD BOX BUCKLE MACHINE



After panel sizing, the machine presses metal fasteners into plywood at programmed positions, creating a consistent base for steel-edge assembly.

01 HIGH-SPEED FASTENING

Continuous operation increases line throughput.

02 PRECISION POSITIONING

Consistent locations reduce assembly variation.

03 OPERATOR SAFETY

Emergency stops and photoelectric sensors protect operators.

04 FLEXIBLE SETUP

Adapts to different panel and fastener specifications.

Buckle Machine: Specifications & Workflow

SPECIFICATIONS AND WORKFLOW

CORE TECHNICAL PARAMETERS

6 kW	Motor power
30–60/min	Fastening speed
50 mm	Applicable steel-strip width
9,000 mm	Max. assembly length
1,000 kg	Machine weight

STANDARD OPERATING SEQUENCE

01	AUTOMATIC FEEDING	Galvanized steel strip is delivered to the specified position.
02	PANEL POSITIONING	The panel is clamped and aligned accurately with the die.
03	POWERED FASTENING	The punch inserts and secures the fastener in one action.
04	RESET & TRANSFER	The punch resets and the workpiece advances to the next cycle.

03 /
PRODUCT 03

Steel-Edge Forming: Consistent Profiles

STEEL-EDGE FORMING MACHINE

Cold-rolls coiled steel strip into accurate edge profiles for plywood-box frames and reinforcement.



01 PRECISION FORMING

Multi-stage rollers produce smooth, consistent profiles.

02 CONTINUOUS OUTPUT

Synchronized feeding supports stable production.

03 QUICK CHANGEOVER

Modular tooling adapts to different profiles.

04 STABLE DRIVE

Adjustable pressure ensures smooth operation.

05 TOUCHSCREEN CONTROL

Visual settings and fault prompts simplify operation.

03 /
PRODUCT 03

Steel-Edge Forming in Four Steps

AUTOMATED FORMING WORKFLOW

01

STRIP FEEDING

Guides align the coiled strip for stable, continuous delivery.

02

ROLL FORMING

Multiple roller stations gradually shape the required profile.

03

CUT TO LENGTH

The encoder measures length and triggers cutting at the preset value.

04

PROFILE OUTPUT

Finished steel edges discharge automatically for downstream pressing.

PLC + SERVO

Automated control from feeding to discharge supports accurate geometry, fast output and consistent profile quality.

Hydraulic Press: Strong, Uniform Joining

STEEL-EDGE HYDRAULIC PRESS



Applies stable hydraulic force to join preformed steel edges with plywood, creating flat, rigid and dimensionally consistent box panels.

01 **UP TO 100 TONS**

Stable pressure ensures tight, repeatable assembly.

02 **LARGE PRESSING AREA**

Uniform force improves panel consistency.

03 **LINE INTEGRATION**

Signal interfaces support coordinated production.

04 **SAFETY SYSTEMS**

Light curtains, emergency stops and overload protection.

05 **CUSTOM CONFIGURATION**

Press size adapts to box dimensions and accuracy needs.

03 /
PRODUCT 04

Hydraulic Press: Data & Workflow

SPECIFICATIONS AND STANDARD PROCESS

40–100 tons	1,300 × 8,500 mm	12–15 kW	80–100 bar
Nominal pressure	Custom platen size	Motor power	Working pressure

STANDARD OPERATING SEQUENCE

01

LOAD & ASSEMBLE

Place the steel edge and prepared plywood on the worktable.

02

POSITION

Mechanical stops align components and control assembly gaps.

03

PRESS

The platen descends evenly and applies the specified pressure.

04

HOLD & RESET

After a short hold, the platen returns automatically.

SOLUTION

Turnkey Line to Finished Packaging

COMPLETE MACHINERY, ONE ACCOUNTABLE PARTNER



STEEL-EDGED BOX

Rigid protection for industrial transport



BUCKLE BOX

Quick assembly for repeated circulation



FOLDABLE BOX

Saves storage and shipping space

PANEL SIZING — **BUCKLE FASTENING** — **EDGE FORMING** — **HYDRAULIC PRESSING**

ZHIWERKS
WOODEN BOX MACHINERY MANUFACTURER

ENGINEERED FOR GLOBAL PACKAGING

Manufacturing · Service · Global Support

Discuss Your Equipment and Turnkey Line

REQUEST A CUSTOM SOLUTION

ZHIWERKS