青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

BLOW ROOM LINE

AUTOMATIC BALE PLUCKER
Model: GA-BRL001
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-BRL001
Beater Width	1,680 mm
Production Capacity	800 kg/hour
Loading Capacity	2,000 kg
Beater Speed	740 rpm
Rail Diameter	5,132 mm
Installed Power	4.0 kW

Key Features

- Robust and heavy-duty construction for reliable operation.
- Suitable for beater widths ranging from **1,680 mm**.
- High production capacity of **800 kg/hour**.
- Large **2,000 kg** loading capacity for efficient material handling.
- Energy-efficient design with installed power from **4.0 kW**.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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SINGLE ROLL CLEANER
Model: GA-BRL002
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-BRL002
Production Capacity	800 kg/hour
Working Width	1,600 mm
Spiked Roller Size	750 × 1,594 mm
Speed Adjustment	Mechanical / Electrical
Frequency Control	400 rpm (Normal Operating Speed: 770 rpm)
Dust Bar Type	68 pcs
Dust Bar Setting	5.5 mm
Setting Angle	5° - 30°
Main Motor	7.5 kW, 1,430 rpm
Carriage Motor	0.37 kW, 1,430 rpm

Features

- Heavy-duty construction for continuous industrial operation.
- Production capacity **800 kg/hour**.
- **1,600 mm** working width for efficient material processing.
- High-performance **750 × 1,594 mm** spiked roller.
- Mechanical and electrical speed adjustment with **variable frequency control (400 rpm)**.
- Equipped with **68 dust bars** featuring adjustable clearance (**5.5 mm**) and setting angle (**5°–30°**) for optimum cleaning efficiency.
- Reliable drive system with a **7.5 kW main motor** and **0.37 kW carriage motor**.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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MULTI MIXER
Model: GA-BRL003
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-BRL003
Machine Type	Multi Mixer
Number of Mixers	06 Nos./Chamber
Mixer Capacity	300 kg (6 mixers combined capacity)
Machine Width	1,200 mm
Production Capacity	150 kg/hour
Installed Power	13.35 kW
Power Supply	As per customer requirement

Features

- Heavy-duty **Multi Mixer** designed for efficient fiber blending and mixing.
- Equipped with **6 mixing chambers** with a combined capacity of **300 kg**.
- Production capacity ranging from **150 kg/hour**.
- Compact **1,200 mm** machine width for efficient installation and operation.
- Energy-efficient design with **13.35 kW** installed power.
- Robust construction ensuring reliable and continuous industrial performance.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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CHUTE FEEDER
Model: GA-BRL004
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-BRL004
Machine Type	Chute Feeder
Working Width	920 mm
Production Capacity (Output)	100 kg/hour
Feed Roller Diameter	191 mm
Installed Power	3.37 kW

Features

- Designed for uniform and continuous fiber feeding to downstream processing machines.
- Compact **920 mm** working width suitable for efficient production lines.
- Output capacity of **100 kg/hour** for stable material feeding.
- Equipped with a **191 mm feed roller** to ensure smooth and consistent fiber delivery.
- Low power consumption with a **3.37 kW** installed motor for energy-efficient operation.
- Heavy-duty construction for reliable, long-term industrial performance.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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SAW TOOTHED CLEANER
Model: GA-BRL005
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-BRL005
Machine Type	Beater
Production Capacity	≤ 800 kg/hour
Working Width	1,600 mm
Spiked Roller Size	750 × 1,594 mm
Operating Speeds	766 / 612 / 495 rpm
Speed Adjustment	Mechanical / Electrical
Frequency Control	400 rpm (Normal Operating Speed: 770 rpm)
Dust Bar Type	68 pcs
Dust Bar Setting	5.5 mm
Setting Angle	5° – 30°
Main Motor	7.5 kW, 1,430 rpm
Carriage Motor	0.37 kW, 1,430 rpm

Features

- High-performance **Beater** designed for efficient opening and cleaning of fibers.
- Production capacity **800 kg/hour** with a **1,600 mm** working width.
- Equipped with a **750 × 1,594 mm** spiked roller for effective fiber processing.
- Three selectable operating speeds (**766, 612, and 495 rpm**) with mechanical/electrical adjustment and variable frequency control.
- Features **68 adjustable dust bars** with **5.5 mm** clearance and **5°–30°** setting angle for optimized cleaning efficiency.
- Powered by a **7.5 kW main motor** and **0.37 kW carriage motor** for reliable and continuous operation.
- Supplied with a **one-year manufacturer's warranty**.

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PORCUPINE BEATER
Model: GA-BRL006
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-BRL006
Machine Type	Porcupine Beater
Production Capacity	600 kg/hour
Working Width	1,060 mm
Feed Roller Speed	18 r/min
Beater Speed	516 / 582 / 647 r/min
Installed Power	3.55 kW

Features

- Heavy-duty **Porcupine Beater** designed for efficient fiber opening and cleaning.
- Production capacity of **600 kg/hour** for continuous processing.
- **1,060 mm** working width suitable for medium- to high-capacity production lines.
- Adjustable **feed roller speed (18 r/min)** for controlled material feeding.
- Multiple **beater speed options (516, 582, and 647 r/min)** to suit different fiber types and processing requirements.
- Energy-efficient operation with a **3.55 kW** installed motor.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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CARDING MACHINE

Model: GA-CM80
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-CM80
Machine Type	Carding Machine
Applicable Staple Length	22 mm
Production Capacity	80 kg/hour
Sliver Weight	3.5 g/m
Tuft Web Weight	400 g/m
Inner Frame Width	1,000 mm
Delivery Speed	250 m/min
Licker-in Diameter	250 mm
Licker-in Speed	808 rpm (10-step adjustment)
Doffer Diameter	706 mm
Doffer Speed	50 rpm
Cylinder Diameter	1,290 mm
Cylinder Speed	330 / 360 / 420 / 450 / 500 rpm
Removing Flats (Working/Total)	32 / 86
Flat Speed	122 mm/min
Can Size	600 × 1,100 mm or 900 × 1,100 mm
Suction Air Volume / Pressure	4,500 m^3/h @ 1,000 Pa
Suction Points	8 (under card)
Safety	Fully enclosed construction
Installed Power	6.57 kW

Features

- High-performance **Carding Machine** designed for efficient opening, cleaning, and carding of textile fibers.
- Suitable for processing staple fibers ranging from **22 mm** in length.
- Production capacity of **80 kg/hour** with stable sliver quality.
- Precision carding system featuring a **1,290 mm cylinder**, **706 mm doffer**, and **250 mm licker-in** for superior fiber separation.
- Ten-step adjustable **licker-in speed (808 rpm)** and multiple cylinder speed options to accommodate various fiber types.
- Equipped with **32 working flats (86 total flats)** for excellent carding performance.
- High-efficiency suction system with **4,500 m^3/h airflow** and **8 suction points** to maintain a clean working environment.
- Fully enclosed safety design for enhanced operator protection and reduced dust emission.
- Energy-efficient operation with an installed power of **6.57 kW**.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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DRAWING FRAME

Model: GA-DF 023
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-DF 023
Machine Type	Drawing Frame
Applicable Material	Cotton, man-made fibers, blended fibers
Applicable Fiber Length	10 mm
Number of Deliveries	2 (Double Coiler)
Doubling	8
Number of Feeding Ends	6
Draft Range	4
Drafting System	3-over-3 with pressure bar and guide roller
Loading System	Pendulum arm spring weighting
Delivered Sliver Weight	1.25 – 7 ktex
Delivery Speed	2.47 m/s (200 m/min)
Delivery Speed	1,100 m/min

Parameter	Specification
Feed Can Diameter	Ø400 / Ø500 / Ø600 mm
Feed Can Height	900 / 1,100 mm
Delivery Can Diameter	Ø300 / Ø350 / Ø400 / Ø500 mm
Delivery Can Height	900 / 1,000 mm
Automatic Filter Cleaning	Yes
Central Drafting Setting (Without Gauges)	Yes
Automatic Can Changer	Yes
Empty Can Feeding	3 reserve cans
Central Lubrication Strip	Yes
Control Panel	Graphic display
Control System	PLC with inverter-controlled main motor
Power Supply	3-Phase AC, 380 V, 50 Hz

Auto Stop Motions

- Photoelectric stop motion.
- Micro-switch stop motion.
- Electric stop motion for top roller and calendar roller breakage.
- Electric stop motion for sliver choke at gatherer and coiler tube.
- Sliver length stop motion with auto-reset counter.
- Electric stop motion for creel section.

Motors

- Main Motor
- Can Changer Motor
- Servo Motor
- Suction Motor
- Cleaning Motor

Standard Accessories

- Automatic filter cleaning system
- Automatic can changer
- Central lubrication system
- PLC-based control system with graphic display
- Complete operation manual and product catalogue

Features

- High-performance **Drawing Frame** designed for cotton, man-made, and blended fibers.
- Dual-delivery (**Double Coiler**) configuration for higher production efficiency.
- Precision **3-over-3 drafting system** with pressure bar and guide roller ensures excellent sliver quality.
- PLC-based intelligent control with inverter-driven main motor for smooth and energy-efficient operation.
- Automatic filter cleaning, can changing, and central lubrication reduce maintenance requirements.

- Comprehensive electronic stop-motion system protects the machine and improves operational reliability.
- Supports delivery speeds **1,100 m/min** for high productivity.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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LAP FORMER

Model: GA-LF024
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-LF024
Machine Type	Lap Former
Doubling	24 / 28 / 32
Drafting System	2-over-3 or 3-over-3
Weighting System	Pneumatic
Pressure Range	380 N
Lap Speed	80 m/min
Theoretical Output	350 kg/hour
Full Lap Weight	22 kg
Total Draft Ratio	1.80
Feed Mode	Two-side gantry creel
Cone Capacity (UNI-Lapper)	96 pcs
Electrical Control	PLC with Touch Screen
Exhaust System	Upper exhaust with suction motor

Parameter	Specification
Trolley	Three (3) Semi-Automatic Trolleys

Standard Features

- PLC-based intelligent control system with **touch screen** for parameter setting, operation guidance, and machine monitoring.
- Inverter-driven **main motor** for precise speed control and smooth operation.
- Automatic reduction of main motor speed during lapping to minimize blockage.
- **Proportional pressure valve** ensures accurate sliver pressure, with real-time pressure display on the touch screen.
- Equipped with **28 sensors** to monitor sliver condition and automatically stop the machine in case of:
  - No sliver
  - Sliver breakage
  - Sliver stoppage
- Compact **two-side gantry creel** feed system reduces floor space requirements.
- Upper exhaust system with integrated suction motor for improved cleanliness.
- Supplied with **three semi-automatic trolleys** for convenient lap handling.

Features

- High-efficiency **Lap Former** designed for modern combing preparation lines.
- Flexible **24, 28, or 32 doubling** configurations to suit various production requirements.
- Pneumatic weighting system with adjustable pressure for consistent lap quality.
- High production capacity of **350 kg/hour** with lap speeds **120 m/min**.
- Intelligent PLC control and inverter technology provide stable operation and easy parameter adjustment.
- Advanced sensor-based monitoring enhances operational safety and minimizes downtime.
- Compact design with reduced floor space requirements and user-friendly operation.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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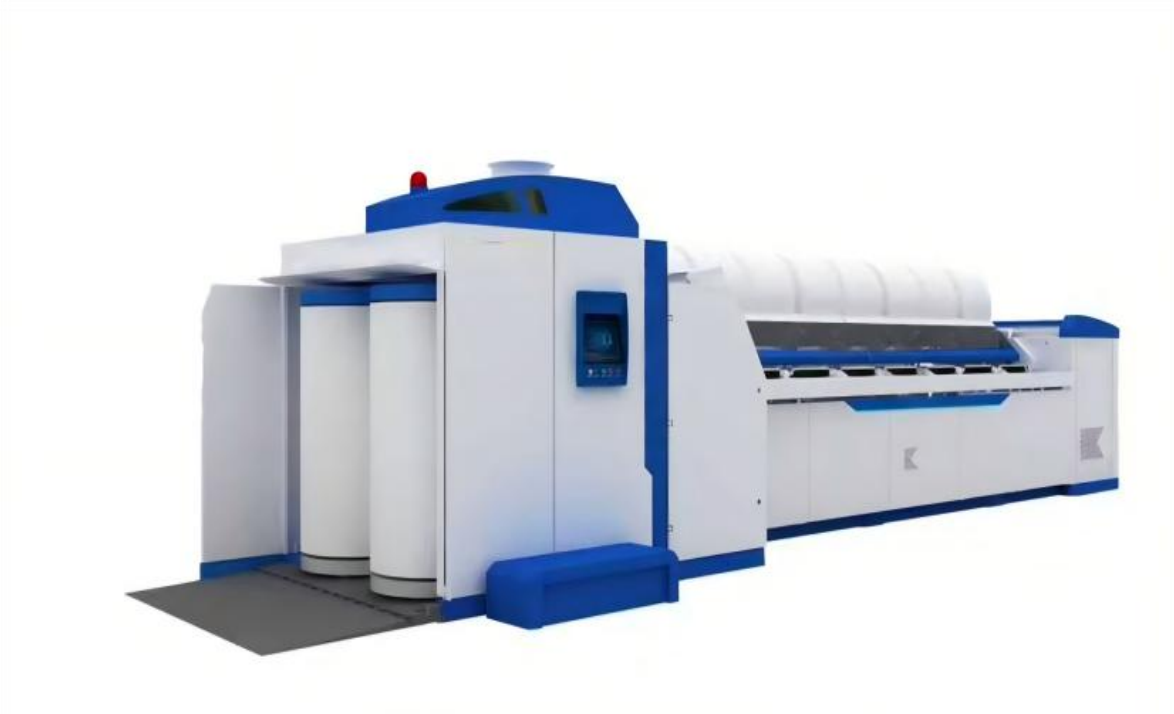
COMBING MACHINE

Model: GA-CM 0026
Origin: Made in China



Technical Specifications

Parameter	Specification
Model	GA-CM 0026
Number of Heads	8
Number of Deliveries	1
Can Changer	Automatic
Head Distance	470 mm
Combing Speed	60 / 280 / 300 / 320 nips/min (depending on process)
Bobbin Size	Ø200 × 300 mm (Inner Ø180 mm)
Feed Lap Width	300 mm
Feed Lap Diameter	≤ 600 mm
Feed Lap Count	60 – 80 ktex
Applicable Fiber Length	≥ 20 mm
Noil Extraction	8 – 25%
Feed Length per Nipper	4.3 / 4.7 / 5.2 / 5.9 mm (Standard: 5.2 mm)
Drafting System	3-over-5 / 3-over-3 / 5-over-5, Pneumatic Loading
Draft Ratio	Pre-draft: 1.14 / 1.36 / 1.50; Total Draft: 9 – 19.3

Parameter	Specification
Main Draft Gauge	41 mm
Coiling Type	Single Can, Single Coiling
Sliver Can Size	Ø600 × 1,200 mm (with caster)
Comber Sliver Count	3 ktex
Suction System	Central Suction
Compressed Air Pressure	6×10^5 Pa
Compressed Air Consumption	1.5 m^3/h
Exhaust Air Volume	3,000 m^3/h
Suction Pressure	250 Pa
Power Supply	380 V ±10%, 50 Hz
Auto Counter	Meter Counter & 4 Shift Counter
Main Inverter Motor	3.5 kW
Brush Motor	1.3 kW
Suction Motor	1.5 kW (not required for group suction system)
Change Gears & Pulleys	Complete Set
Top Roller Cots	Becker / Equivalent Best Quality
Overall Dimensions	As per Model
Sliver Unevenness (U%)	< 3.5%
Neps	< 50

Standard Features

- **8-head combing unit** with automatic can changing for continuous production.
- PLC-based control system with inverter-driven main motor for stable operation.
- Pneumatic drafting system providing precise fiber control and consistent sliver quality.
- Multiple combing speed selections to accommodate different processing requirements.
- Central suction system for efficient dust and waste removal.
- Automatic meter and four-shift production counter.
- Complete set of change gears and pulleys supplied.
- Premium **Becker or equivalent quality top roller cots**.
- Designed for easy maintenance and reliable long-term operation.

Features

- High-performance **Combing Machine** for producing premium-quality combed sliver.
- Suitable for fibers with lengths of **20 mm and above**.
- Low sliver unevenness (**U% < 3.5%**) and **Neps < 50** ensure excellent yarn quality.
- Automatic can changing minimizes downtime and improves production efficiency.
- Flexible drafting configurations with pneumatic loading for different fiber applications.
- Energy-efficient drive system with inverter-controlled motors.
- Robust construction ensures reliable operation in continuous industrial production.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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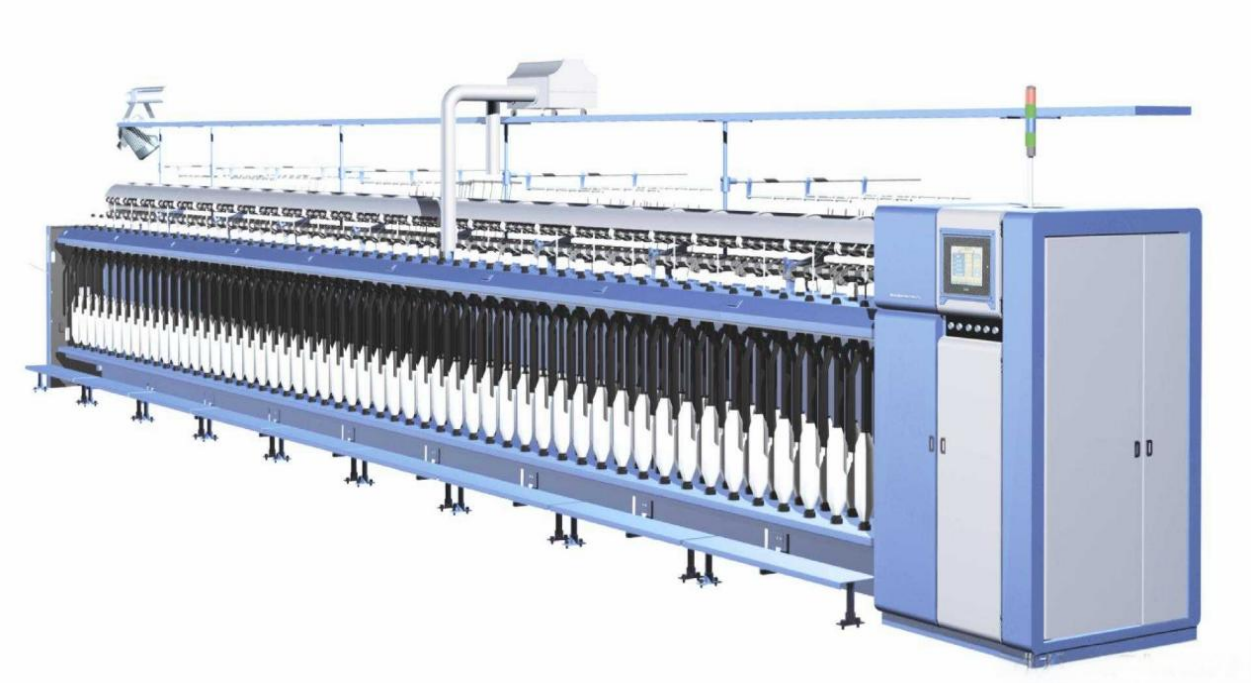
SIMPLEX MACHINE

Model: GA-SM025
Origin: Made in China



Technical Specifications

Parameter	Specification
Model	GA-SM025
Machine Type	Simplex Machine (Speed Frame)
Spindle Gauge	220 mm
Number of Spindles	24
Machine Configuration	2 Right-Hand or 2 Left-Hand
Applicable Staple Length (Cotton)	22 – 38 mm
Bobbin Size	Ø45 × 445 mm
Flyer Spindle Shaft Diameter	Ø22 mm
Full Package Size	Ø152 × 406 mm
Suitable Yarn Count	Nm 0.8 – 5.0
Total Draft Range	4.13 – 13.28
Twist Range	1.76 – 7.44 turns/10 cm
Flyer Type	Closed Type with Stainless Steel Tube & Aluminum Presser
Mechanical Spindle Speed	1,600 rpm
Practical Spindle Speed	1,200 rpm (Cotton); 1,400 rpm (Polyester)
Creel Type	Gantry Creel with 5 Rows of Guide Rollers (500 × 1,100 mm, Stainless

Parameter	Specification
	Steel)
Counter	Pre-determined Length Counter
Shift Counter	4 Shift Counter (3 Operating + 1 Spare)
Stop Motion	Five Photoelectric Sensors
Signal Lamps	4 pcs
Display Panel	Spindle Speed, Fixed Length, Accumulated Length, Current Length

Drafting & Drive System

Component	Specification
Control System	PLC (SIEMENS / DELTA / FUJI or Equivalent)
Frequency Converter	Dual Inverter System (Flyer & Roller / Lifting & Winding)
Drafting System	Four-Roller Short Double Apron System
Pendulum Arm	Tex Parts SKF-PK1500
Top Rollers	LP1015, LP1015, LP1017, LP1015
Top Apron Cradle	OH514
Rubber Cots	Armstrong
Top Roller Size	Ø28 / 28 / 25 / 28 mm × 40 mm Width
Top Roller Hardness	80 ± 3 Shore
Top Apron	Ø37 mm Inside Diameter, 0.9 ± 0.02 mm Thickness, 39.5 mm Width
Bottom Apron	Ø38 mm Inside Diameter, 1.2 ± 0.02 mm Thickness, 39.5 mm Width
Bottom Rollers	Ø28.5 mm Hardened Chrome-Plated Fluted Rollers with Needle Bearings

Standard Features

- PLC-based intelligent control system with user-friendly operation.
- Dual inverter drive for precise flyer, roller, lifting, and winding control.
- Four-roller short double apron drafting system for excellent roving quality.
- High-quality **Armstrong rubber cots** and premium drafting components.
- Gantry creel with stainless steel guide rollers and positive drive system.
- Pre-set length counter and four-shift production counter.
- Five photoelectric stop-motion sensors for enhanced operational safety.
- Multi-function display showing spindle speed, production length, and operating status.
- Four signal lamps for machine status indication.

Features

- High-performance **Simplex Machine (Speed Frame)** designed for cotton and polyester roving production.
- Suitable for cotton fibers ranging from **22 mm** staple length.
- Supports **24 spindles** with spindle speeds **1,600 rpm**.
- Precision drafting system ensures uniform roving and excellent yarn preparation.
- Energy-efficient inverter-driven motors provide stable and reliable operation.
- Robust construction designed for continuous industrial production.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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RING FRAME MACHINE

Model: GA-RFM 025
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-RFM025
Machine Type	Ring Frame Machine
Spindle Gauge	70 mm
Number of Spindles	96
Spindle Type	Spring Type with Knee Braking System
Ring Diameter	38 mm / 42 mm / 45 mm (12 spindles for each size)
Ring Flange Thickness	3.2 mm
Tube Length	200 mm
Suitable Yarn Count	Ne 6 – 100
Total Draft Ratio	10
Rear Zone Draft	1.16
Draft Range	8 – 80
Twist Range	300 – 1,600 T/M
Twist Direction	Z or S
Spindle Speed	12,000 rpm
Suitable Fiber	Cotton, cotton-type man-made fibers, medium synthetic fibers 65 mm, and their blends
Roving Bobbin Diameter	180 mm

Parameter	Specification
Roving Lift	205 mm
Creel	6 Rows (Single) with Roving Holder Peg, Break & Guide Bar
Operating System	PLC (Latest Configuration)
Number of Ring Bobbins	200 pcs
Number of Simplex Bobbins	200 pcs
Draft Change Gears	8 – 50 (Step-2)
Break Draft Change Gears	1.16 – 2.00 (Step 0.05)
Twist Change Gears	300 – 1,600 T/M

Drafting System

Component	Specification
Pressure Arm	Spring-Loaded Drafting Arrangement
Roller Arrangement	3 Rows With Cradle
Application	Suitable For Short And Medium Staple Fibers

Standard Accessories

- Rust-proof **Ring Cups**
- Rust-proof **Drafting Bottom Rollers**
- Rust-proof **Spindles**
- Rust-proof **Travelers**
- Essential spare parts
- Product catalogue
- Operation and maintenance manual

Ring Travelers Supplied

Suitable travelers for the following yarn counts:

- 16s
- 20s
- 26s
- 30s
- 40s
- 50s
- 60s
- 80s

Supply Quantity: 1 packet (1,000 pcs) for each size.

Features

- High-performance **Ring Frame Machine** designed for spinning cotton, synthetic fibers, and blended materials.
- Equipped with **96 spring-type spindles** featuring a knee braking system for reliable operation.
- Wide spindle speed range of **12,000–20,000 rpm** for high productivity.
- Suitable for spinning **Ne 6–100** yarn counts.

- Precision **three-row drafting system** with spring-loaded pressure arm ensures excellent yarn quality.
- PLC-based intelligent control system for easy operation and process monitoring.
- Rust-proof critical components provide long service life and reduced maintenance.
- Supplied with complete accessories, spare parts, operation manual, and product catalogue.
- Manufactured in **China** under quality production standards.
- Backed by a **one-year manufacturer's warranty**.

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ROTOR SPINNING FRAME

Model: GA-RSF 026
Origin: Made in China

Technical Specifications

Parameter	Specification
Model	GA-RSF026
Machine Type	Rotor Spinning Frame
Number of Rotors	48 (24 × 2)
Machine Configuration	Standard Machine with Headstock & Tailstock
Tube Loader	UNIfeed
Position Adjustment	Steplessly Adjustable Changing Positions
Robot Unit	1 Robot
Spinning Position	Self-Cleaning
Rotor Drive Motor	30 kW
Winding Roller Drive Motor	5.5 kW
Feed Drive Motor	5.5 kW
Bobbin Type	Cylinder Bobbins
Sliver Guide	10 mm
Channel Insert	31
Pressure Roller	Grey Rubber Cots
Can Height	1,070 mm
Package Length	125 mm
Edge Shifting Motion	0 – 30 mm (Steplessly Adjustable)

Parameter	Specification
Stroke Gearbox	Stepless Variable
Winding Helix Angle	30° – 40° (Adjustable in 1° Steps)
Rotor Configuration	Without Yarn End Placement
Cleaning System	Additional Cleaning Head
Yarn Clearer	Capacitive Sensor Type
Exhaust System	Downward Air Exhaust into Air Ducts

Standard Features

- Standard machine equipped with **headstock, tailstock, and UNIfeed tube loader**.
- **48 spinning rotors (24 × 2)** for high production efficiency.
- Stepless position adjustment for flexible machine operation.
- **Self-cleaning spinning positions** reduce maintenance requirements.
- Integrated **robotic automation** with one robot unit.
- High-performance rotor drive powered by a **30 kW motor**.
- Independent **5.5 kW winding roller** and **feed drive motors** for stable spinning performance.
- Capacitive **electronic yarn clearer** for consistent yarn quality.
- Additional automatic cleaning head for improved machine cleanliness.
- Downward exhaust system connected to air ducts for efficient dust removal.

Features

- High-performance **Rotor Spinning Frame** designed for modern open-end spinning applications.
- Equipped with **48 rotors** for increased productivity and consistent yarn quality.
- Intelligent winding system with adjustable package length and helix angle.
- Self-cleaning spinning units minimize downtime and improve operational efficiency.
- Energy-efficient drive system with independent motors for rotor, winding, and feed mechanisms.
- Robust construction ensures reliable continuous industrial operation.
- Manufactured in **China** under quality production standards.
- Supplied with a **one-year manufacturer's warranty**.

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CONE WINDING MACHINE

Model: GA-CWM 0334
Origin: Made in China

Product Overview

The **GA-CWM 0334 Cone Winding Machine** is a high-performance automatic winding solution designed to produce high-quality yarn packages with consistent density and superior winding efficiency. Equipped with advanced electronic yarn cleaning and an automatic splicing system, the machine ensures reliable operation, reduced yarn waste, and improved productivity for modern spinning mills.

Technical Specifications

Item	Specification
Machine Type	Cone Winding Machine
Model	GA-CWM 0334
Number of Heads	4 Heads
Splicing System	Automatic Splicer Unit
Winding Speed	600 m/min
Yarn Cleaning System	Electronic Yarn Cleaner
Package Hardness	Adjustable

Item	Specification
Doffing System	Automatic Doffing
Stop Motion	Automatic Stop Motion

Standard Features

- Four-head automatic cone winding system.
- High-speed winding with a speed of 600 m/min.
- Electronic yarn cleaning system for improved yarn quality.
- Automatic splicer unit for efficient yarn joining.
- Adjustable package hardness for uniform cone formation.
- Automatic doffing system to reduce manual intervention.
- Automatic stop motion for safe and reliable operation.
- Designed for high productivity and consistent winding performance.

Applications

The machine is suitable for winding cotton, polyester, blended, and other staple fiber yarns into high-quality cones for weaving, knitting, dyeing, and other textile manufacturing processes.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

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ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

POWER LOOM (WITH DROP BOX & DOBBY)

Model: GA-PL 0335P
Origin: Made in China

Product Overview

The **GA-PL 0335P Power Loom** is a robust semi-automatic weaving machine designed for high-quality fabric production with enhanced flexibility and efficiency. Equipped with a **2×1 drop box**, **12-shaft horizontal double-lift dobby**, centralized lubrication system, and reliable warp and weft stop motions, this machine delivers consistent weaving performance while minimizing downtime. It is suitable for weaving a wide range of cotton, blended, and synthetic fabrics.

Technical Specifications

Item	Specification
Machine Type	Semi-Automatic Drop Box Loom
Model	GA-PL 0335P
Reed Space	52"
Shuttle Box	2 × 1
Shedding	12-Shaft Double Lift Dobby (Horizontal)
Reed	Fast Reed / Loose Reed (Optional)
Let-Off System	Semi-Positive Type (Attached Beam Type or Separate Beam Type)
Take-Up Mechanism	Pickle's Seven Wheel Take-Up Mechanism
Picking Motion	Under Pick / Over Pick Motion

Item	Specification
Operating Speed	130–150 RPM (Depending on Yarn Type and Quality)
Drive Motor	1 HP Loom Motor
Lubrication	Centralized Lubrication System
Warp Stop Motion	Electrical or Mechanical
Weft Stop Motion	Weft Fork System or Electronic Infrared Filler System
Accessories	Complete Standard Accessories Included

Standard Features

- Semi-automatic drop box weaving system.
- 2 × 1 shuttle box for versatile weaving operations.
- 12-shaft horizontal double-lift dobby for complex weaving patterns.
- Fast Reed or Loose Reed option to suit different fabric requirements.
- Semi-positive let-off mechanism for smooth warp tension control.
- Pickle's seven-wheel take-up mechanism for uniform fabric winding.
- Under-pick or over-pick picking motion.
- Operating speed of 130–150 RPM, depending on yarn quality.
- Powerful 1 HP loom motor for reliable operation.
- Centralized lubrication system for reduced maintenance.
- Electrical or mechanical warp stop motion for enhanced protection.
- Weft fork or electronic infrared filler detection system for accurate weft monitoring.
- Supplied with complete standard accessories.

Applications

The GA-PL 0335P is suitable for weaving cotton, polyester, blended, and other woven fabrics used in apparel, home textiles, industrial textiles, and general textile manufacturing.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

SECTIONAL WARPING MACHINE

Model: GA-SW 0336S
Origin: Made in China

Product Overview

The **GA-SW 0336S Sectional Warping Machine** is designed to produce high-quality warp beams with excellent precision and efficiency. The machine features a high-capacity creel, smooth yarn control system, automatic stop devices, and variable speed control to ensure uniform yarn tension and reliable performance. It is suitable for preparing warp beams for modern shuttleless weaving machines, including rapier and air-jet looms.

Technical Specifications

Item	Specification
Machine Type	Sectional Warping Machine
Model	GA-SW 0336S
Creel Capacity	128 Positions
Drive Motor	2 HP
Warping Speed	300 m/min
Reed Width	90"
Yarn Passing Device	Standard
Yarn Stop Motion	Automatic Yarn Stop Device
Counter	Digital Counter
Speed Control	Transducer (Variable Frequency Drive)
Additional Device	Oil Presser Yarn Passing Device
Compatible Looms	Rapier Loom, Air Jet Loom and Other Shuttleless Looms
Warp Beams	5 Sets Included

Standard Features

- High-capacity creel with a of 128 yarn positions.
- Warping speed 300 m/min for improved productivity.
- 90-inch reed width for versatile fabric preparation.
- Automatic yarn stop device to minimize yarn breakage and defects.
- Yarn passing device for smooth yarn guidance.
- Digital counter for accurate length measurement.
- Transducer-controlled variable speed operation for stable performance.
- Oil presser yarn passing device for improved yarn handling.
- Compatible with Rapier Looms, Air Jet Looms, and other shuttleless weaving machines.
- Supplied with five (5) warp beams as standard.
- Designed for high efficiency, consistent warp quality, and easy operation.

Applications

The machine is ideal for preparing high-quality warp beams for cotton, polyester, blended, and other yarns used in modern weaving mills. It is suitable for integration with rapier looms, air-jet looms, and other shuttleless weaving systems.

Warranty

One (1) Year from the date of commissioning against manufacturing defect.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

HAND LOOM WITH JACQUARD

Model: GA-HL 0337L
Origin: Made in China

Product Overview

The **GA-HL 0337L Hand Loom with Jacquard** is a durable and efficient weaving machine designed for producing decorative and patterned fabrics with high precision. Featuring a mechanical jacquard system, the loom provides reliable pattern control through punched paper cards and is suitable for weaving a wide variety of intricate textile designs. Its sturdy construction and smooth mechanical operation make it ideal for training institutes, handloom production units, and small-scale textile manufacturers.

Technical Specifications

Item	Specification
Machine Type	Hand Loom with Jacquard
Model	GA-HL 0337L
Jacquard Capacity	200 / 400 / 600 / 800 Needles
Operating Speed	180–230 RPM (Mechanical)
Open Height	50–150 mm
Transmission System	Chain Axis Drive
Control System	Mechanical Octagonal Cylinder with Punched Hexagonal Paper Cards
Hole Distance (Octagonal)	4 × 4 mm
Hole Distance (Hexagonal)	5.13 × 5.13 mm

Standard Features

- Mechanical jacquard system with multiple needle configurations.
- Available in 200, 400, 600, and 800-needle models.

- Mechanical operating speed of 180–230 RPM.
- Adjustable shed opening height from 50 mm to 150 mm.
- Chain-axis transmission for smooth and reliable operation.
- Mechanical octagonal cylinder control system.
- Compatible with punched hexagonal paper cards for accurate pattern weaving.
- Durable construction for long service life and low maintenance.
- Easy operation and suitable for educational and production purposes.

Applications

The machine is suitable for weaving decorative, furnishing, fashion, silk, cotton, and other patterned fabrics. It is widely used in handloom weaving centers, textile training institutes, handicraft industries, and small- to medium-scale textile production units.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

CARD PUNCHING MACHINE

Model: GA-CPM 0338C
Origin: Made in China

Product Overview

The **GA-CPM 0338C Card Punching Machine** is a precision mechanical machine designed for punching and reproducing Jacquard pattern cards used in textile weaving. It provides accurate hole punching, continuous pattern processing, and efficient duplication of existing pattern cards, significantly reducing production time and labor costs. The machine is ideal for textile mills, handloom units, and training institutes utilizing mechanical Jacquard weaving systems.

Technical Specifications

Item	Specification
Machine Type	Card Punching Machine
Model	GA-CPM 0338C
Impulse Diameter	Ø 4.5 mm
Impulse Vertical Hole Distance	3 mm
Impulse Horizontal Hole Distance	12 mm
Punching / Re-perforating Location Hole Distance	347 mm (28 Harnesses), 275 mm (20 Harnesses)
First Fit Distance (Left Location Hole)	20.5 mm
Machine Structure	Platform Type for Hand-Turning Operation
Pattern Processing	Continuous Punching and Re-perforating
Card Duplication	Capable of Duplicating Existing Pattern Cards
Harness Capacity	28 Harnesses
Compatible Card Thickness	0.22 mm

Standard Features

- Precision mechanical punching system for Jacquard pattern cards.
- Platform-type construction for stable hand-turning operation.
- Continuous punching and re-perforating capability.
- Supports duplication of existing pattern cards, saving time and labor.
- Suitable for pattern cards with 28 harnesses.
- High punching accuracy with standardized hole spacing.
- Compatible with pattern card thickness ranging from 0.22 mm to 0.25 mm.
- Durable construction with reliable mechanical performance.
- Easy operation and low maintenance.

Applications

The machine is designed for preparing and reproducing Jacquard punched cards used in handlooms, power looms, and other mechanical Jacquard weaving systems. It is suitable for textile mills, weaving factories, research organizations, and textile training institutes.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
GUOAOtex QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

ELECTRONIC RAPIER LOOM MACHINE

Model: GA-ERLM 0338R
Origin: Made in China

Product Overview

The **GA-ERLM 0338R Electronic Rapier Loom Machine** is a high-performance weaving machine specially designed for the production of premium-quality terry towels. Equipped with an advanced PLC control system, electronic shedding mechanism, positive electric let-off, and movable reed terry raising system, the machine delivers high-speed operation, excellent fabric quality, and reliable production efficiency. It is suitable for manufacturing bath towels, hand towels, face towels, beach towels, and other terry fabrics.

Technical Specifications

Item	Specification
Machine Type	Electronic Rapier Loom Machine
Model	GA-ERLM 0338R
Application	Terry Towel Production
Reed Width	200 cm (78"), 230 cm (90"), 260 cm (102"), 280 cm (110")
Rotation Speed	240 RPM (78" Model)
Weft Selection	4 Colors
Let-Off System	Upper: Positive Electric Let-Off; Lower: Electric Let-Off
Terry Raising Type	Cam-Type Movable Reed Terry Raising
Terry Height Adjustment	Stepless Adjustment (2–12 mm)
Shedding Mechanism	Upper-Placed Electronic Shedding
Weft Stop Motion	Piezoelectric Control
Warp Stop Motion	Double-Row Electric Warp Stop

Color Selection	Mechanical / Electric Color Selection
Control System	PLC (Programmable Logic Controller)

Standard Features

- Specially designed for high-quality terry towel production.
- Available in multiple reed widths from **200 cm to 280 cm**.
- High-speed operation **240 RPM** (depending on reed width and fabric construction).
- Multi-color weft insertion with **4–8 color selection**.
- Positive electric let-off system for accurate warp tension control.
- Cam-type movable reed terry raising mechanism for uniform loop formation.
- Stepless terry height adjustment for different towel specifications.
- Upper-mounted electronic shedding mechanism for reliable weaving performance.
- Piezoelectric weft stop motion for precise yarn monitoring.
- Double-row electric warp stop system to minimize yarn breakage.
- PLC-based control system for easy operation, parameter setting, and production monitoring.
- Durable construction designed for continuous industrial operation.

Applications

The GA-ERLM 0338R is suitable for manufacturing a wide range of terry products, including bath towels, hand towels, face towels, hotel towels, beach towels, kitchen towels, and other high-quality terry fabrics for domestic and export markets.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

INSPECTION TABLE (AUTO)

Model: GA-IT 0440A
Origin: Made in China

Product Overview

The **GA-IT 0440A Automatic Inspection Table** is designed for efficient inspection and quality control of woven and knitted fabrics. Equipped with an illuminated light box and a geared drive system, the machine enables operators to detect weaving defects, stains, holes, and other fabric imperfections with greater accuracy. Its compact design and smooth fabric handling make it suitable for textile mills, garment factories, and fabric finishing units.

Technical Specifications

Item	Specification
Machine Type	Automatic Fabric Inspection Table
Model	GA-IT 0440A
Table Size	6 ft × 4 ft
Light Box	Built-in Illuminated Light Box
Drive Motor	0.5 HP with Reduction Gear
Operation	Automatic

Standard Features

- Automatic fabric inspection system.
- Standard inspection table size of **6 ft × 4 ft**.
- Built-in illuminated light box for enhanced defect detection.
- Smooth and stable fabric inspection operation.
- 0.5 HP motor with reduction gear for reliable performance.
- Heavy-duty steel frame with durable construction.
- User-friendly design requiring minimal maintenance.
- Suitable for continuous textile quality inspection.

Applications

The GA-IT 0440A is suitable for inspecting woven, knitted, dyed, printed, and finished fabrics before cutting, packing, or shipment. It is widely used in textile mills, garment factories, dyeing and finishing plants, and quality control departments.

Warranty

One (1) Year from the date of commissioning against manufacturing defect.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

PIRN WINDING MACHINE

Model: GA-PWM 0440M
Origin: Made in China

Product Overview

The **GA-PWM 0440M Pirn Winding Machine** is a high-efficiency winding machine designed for producing uniformly wound pirns used in shuttle weaving looms. Featuring adjustable spindle speeds, compact construction, and reliable performance, the machine ensures consistent yarn winding quality with yarn damage. It is suitable for cotton, polyester, blended, and other textile yarns used in conventional weaving operations.

Technical Specifications

Item	Specification
Machine Type	Pirn Winding Machine
Model	GA-PWM 0440M
Configuration	Single-Side / Double-Side
Number of Spindles	12
Spindle Gauge	70 mm
Spindle Speed	2,000–3,000 RPM (Adjustable)
Winding Diameter	32 mm
Winding Height	205 mm
Power Supply	AC 380 V, 50 Hz, Three-Phase
Drive Motor	1 HP (2.2 kW)

Standard Features

- Available in single-side or double-side configuration.
- Equipped with **12 high-speed winding spindles**.
- Adjustable spindle speed from **2,000 to 3,000 RPM**.
- Winding diameter of **32 mm**.
- Winding height of **205 mm**.
- Heavy-duty three-phase drive system for stable operation.
- Produces uniformly wound pirns for improved weaving performance.
- Compact structure with easy operation and low maintenance.
- Suitable for continuous production in textile mills.

Applications

The GA-PWM 0440M is designed for winding pirns used in shuttle looms for weaving cotton, polyester, viscose, blended, and other yarns. It is widely used in weaving mills, textile training institutes, and fabric manufacturing industries.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
GUOAOtex QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

COMPUTERIZED FLAT KNITTING MACHINE

Model: GA-FK0555M
Origin: Made in China

Product Overview

The **GA-FK0555M Computerized Flat Knitting Machine** is a high-performance knitting solution designed for the production of sweaters, collars, cuffs, fashion garments, and other knitted products. Equipped with an advanced digital control system, variable stroke technology, multi-gauge capability, and USB data transfer, the machine delivers high productivity, precise knitting quality, and excellent pattern flexibility. It is compatible with leading external knitting design software, making it ideal for modern knitwear manufacturing.

Technical Specifications

Item	Specification
Machine Type	Computerized Flat Knitting Machine
Model	GA-FK0555M
Gauge	SV 5G / 7G
Knitting Width	Variable Stroke, 45 in. (114 cm)
Gauge Type	Multi-Gauge / Wide Gauge
Knitting Speed	1.2 m/sec
Stitch Density	120 Levels
Racking	1 Inch (Both Sides)
Transfer System	Simultaneous Front & Back Transfer in Any Cam Direction
Sinker System	Spring-Type Movable Sinker
Setup Device	Take-Down Comb with Special Setup Needle
Yarn Cutter	Single Unit, 1 Cutter with 2 Grippers

Item	Specification
Stitch Control	DSCS (Digital Stitch Control System)
Yarn Carriers	6 Positions
Data Input	USB Memory
Controller	Built-in Computerized Controller
Power Supply	Single Phase AC 220–230 V
Power Consumption	1.6 kW
Machine Weight	660 kg
Design System Compatibility	Compatible with SDS-One APEX 4 and Other External Design Systems

Standard Features

- Fully computerized flat knitting system with built-in controller.
- Available in **5G and 7G** gauge configurations.
- Variable stroke knitting width **45 inches (114 cm)**.
- Multi-gauge and wide-gauge knitting capability.
- High knitting speed **1.2 m/sec** for increased productivity.
- **120-level digital stitch density control** for precise fabric quality.
- Simultaneous front and back needle transfer in any cam direction.
- Spring-type movable sinker for improved loop formation.
- Automatic take-down comb with special setup needle.
- Yarn cutter equipped with **1 cutter and 2 grippers** for efficient yarn handling.
- Six-position yarn carrier system for multi-yarn knitting.
- USB memory interface for convenient pattern transfer.
- Compatible with **SDS-One APEX 4** and other external knitting design systems.
- Stable operation with low power consumption and easy maintenance.

Applications

The GA-FK0555M is suitable for manufacturing sweaters, cardigans, pullovers, collars, cuffs, scarves, hats, fashion knitwear, school uniforms, sportswear, and a wide variety of fully fashioned knitted garments.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

COMPUTERIZED EMBROIDERY MACHINE

Model: GA-CEM 022M
Origin: Made in China

Product Overview

The **GA-CEM 022M Computerized Embroidery Machine** is a high-speed, precision embroidery machine designed for producing premium-quality embroidery on a wide range of fabrics. Featuring advanced servo motor technology, a dual-drive system, and linear guide rail construction, the machine delivers stable, accurate, and high-speed operation with reduced thread breakage. It is ideal for garment manufacturers, textile industries, and embroidery production units requiring consistent quality and high productivity.

Technical Specifications

Item	Specification
Machine Type	Computerized Embroidery Machine
Model	GA-CEM 022M
Embroidery Type	High-Speed Flat Embroidery
Embroidery Speed	1,000 RPM
Main Drive	Main Shaft Servo Motor
Number of Heads	2 Heads
Number of Needles	6 / 9 / 12 Needles (Optional)
Head Interval	400 mm
Embroidery Area	400 × 680 mm / 400 × 800 mm / 400 × 1000 mm / 400 × 1200 mm
Guide System	Precision Linear Guide Rail
Drive System	Double Drive System
Fabric Compatibility	Suitable for Fabrics of Different Thicknesses

Standard Features

- High-speed computerized flat embroidery machine.
- Embroidery speed of **1,000 RPM**.
- High-performance main shaft servo motor for smooth and accurate operation.
- Suitable for processing fabrics of varying thicknesses.
- Precision linear guide rail for stable frame movement and enhanced embroidery accuracy.
- Double-drive head support system for improved operational stability.
- Reduced thread breakage for superior embroidery quality at high speeds.
- Available with **6, 9, or 12 needles** to suit different production requirements.
- Two-head configuration with **400 mm head spacing**.
- Multiple embroidery field sizes available for various embroidery applications.
- User-friendly computerized control system with reliable performance.

Applications

The GA-CEM 022M is suitable for embroidery on garments, T-shirts, polo shirts, caps, uniforms, towels, home textiles, fashion accessories, bags, and decorative textile products. It is widely used in garment factories, embroidery workshops, textile industries, and commercial embroidery businesses.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

ELECTRIC LABORATORY PRINTING MACHINE

Model: AT288
Origin: Made in China

Product Overview

The **AT288 Electric Laboratory Printing Machine** (original model **HY0190**) is a precision magnetic laboratory printing machine specially designed for textile printing research, sample development, and quality evaluation. Featuring a magnetic printing table, high-quality drive system, adjustable printing speed, and interchangeable magnetic rollers, the machine delivers accurate, repeatable, and high-quality printing results. It is an ideal solution for textile laboratories, research institutes, universities, and quality control departments.

Technical Specifications

Item	Specification
Machine Type	Electric Laboratory Printing Machine
Model	AT288
Application	Textile Laboratory Printing & Sample Development
Printing Area	500 × 400 mm
Screen Frame Size	640 × 480 mm
Magnetic Roller Diameter	Standard: Ø10 mm & Ø20 mm; Optional: Ø15 mm & Ø25 mm
Magnetic Roller Length	500 mm
Travel Distance	200 – 500 mm (Stepless Adjustable)
Printing Speed	0.6 – 6.0 m/min (Adjustable)
Speed Control	AC Variable Frequency Drive
Magnetic Force Control	Stepless Adjustable
Drive System	High-Quality Motor with Ball Screw
Power Supply	AC 220 V, 50 Hz
Machine Dimensions	900 × 900 × 1020 mm

Machine Weight	120 kg

Standard Features

- Precision magnetic laboratory printing machine for textile sample development.
- High-elasticity imported rubber coating table for uniform printing quality.
- Magnetic printing table driven by a high-quality motor and precision ball screw.
- Stepless magnetic force adjustment for different printing requirements.
- AC variable frequency speed control system with adjustable printing speed.
- Interchangeable magnetic rollers to suit various printing applications.
- Floor-standing design with integrated tool box; no workbench required.
- Stable operation with excellent printing repeatability and accuracy.
- User-friendly operation and low maintenance.

Standard Configuration

No.	Item	Quantity
1	Main Machine	1 Set
2	Screen Frame	1 Piece
3	Ø10 mm Magnetic Roller	1 Piece
4	Ø20 mm Magnetic Roller	1 Piece
5	Quality Certificate	1 Piece
6	User Manual	1 Piece
7	Packing List	1 Piece

Optional Configuration

No.	Item
1	Ø10 mm Magnetic Roller
2	Ø15 mm Magnetic Roller
3	Ø20 mm Magnetic Roller
4	Ø25 mm Magnetic Roller

Applications

The AT288 is suitable for laboratory textile printing, pigment and dye paste development, color matching, print sample preparation, educational demonstrations, textile R&D, and quality control testing. It is widely used in textile laboratories, universities, research institutes, dyeing and printing industries, and product development centers.

Warranty

One (1) Year from the date of commissioning against manufacturing defects.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

AIR JET LOOM

Model: GA-AJL 02221M
Origin: Made in China

Product Overview

The **GA-AJL 02221M Air Jet Loom** is a new-generation high-speed shuttleless weaving machine engineered for superior productivity, energy efficiency, and fabric quality. Equipped with an advanced electronic control system, positive let-off mechanism, low-vibration beating system, and intelligent weaving navigation technology, the machine delivers stable performance for weaving a wide range of spun and filament yarn fabrics. Its robust construction and flexible configuration make it suitable for modern textile weaving mills.

Technical Specifications

Item	Specification
Machine Type	Air Jet Loom
Model	GA-AJL 02221M
Reed Space	140 cm
Yarn Range	Spun Yarn: Ne 100 – Ne 5; Filament Yarn: 50D – 900D
Weft Selection	2-Color Mixing, 2-Color At-Will, 4-Color
Drive Motor	3.0 kW (Cam Shedding), 3.7 kW (Dobby Shedding)
Weft Insertion	Profile Reed
Shedding System	Negative Cam Shedding (Up to 8 Shafts); Electronic Positive Floor-Mounted Dobby (Up to 16 Shafts)
Let-Off System	Single Beam, Negative Easing, Flange Diameter 800 mm
Take-Up System	Electronic Take-Up

Item	Specification
Pick Density	25–205 Picks/Inch (MTU); 25–300 Picks/Inch (Electronic)
Fabric Roll Diameter	600 mm (Cam/Dobby), 520 mm (Crank Shedding)
Beating Mechanism	Four-Link Beating System
Measuring & Storing	Vibration-Type Pooling System
Filling Supply Stand	Floor Mounted, 4 Packages (2-Color) / 8 Packages (4-Color)
Selvedge Formation	Planetary Gear Motion
Waste Filling Removal	Catch Cord Type (3-Roll System)
Cutter	Mechanical Cutter
Lubrication	Oil Bath Lubrication System
Stop Motion	Automatic Stop Motion

Standard Features

- Advanced electronic control system for stable and efficient operation.
- Positive let-off mechanism with double back roller for accurate warp tension.
- Low-vibration balanced beating system for superior fabric quality.
- Energy-efficient electromagnetic valve with reduced power consumption.
- Intelligent weaving navigation system for simplified machine operation.
- Electronic take-up synchronized with let-off through AC servo motor control.
- Automatic take-up tension adjustment during operation.
- Continuous fabric doffing without stopping the machine (MTU system).
- Flexible weft selection with 2-color and 4-color configurations.
- Compatible with both cam shedding and electronic dobby shedding systems.
- High-speed profile reed weft insertion system.
- Oil bath lubrication system for long service life and reduced maintenance.
- Automatic stop motion to protect yarn and fabric quality.

Applications

The GA-AJL 02221M is suitable for weaving cotton, polyester, viscose, blended, filament, and technical textile fabrics. It is widely used in textile mills producing apparel fabrics, shirting, suiting, home textiles, industrial textiles, and other high-quality woven fabrics.

Warranty

One (1) Year from the date of commissioning against manufacturing defects, subject to the manufacturer's standard terms and conditions.

WINCH DYEING MACHINE

Model: GA- WD 02221M
Origin: Made in China

Application

The Winch Dyeing Machine is designed for dyeing woven and knitted fabrics under low-tension conditions. It is suitable for laboratory and small-batch production, offering excellent dye penetration, uniform color distribution, and reliable performance for various types of textile materials.

Technical Specifications

Parameter	Specification
Working Volume	1.55 m^3
Roller Speed	5 - 60 r/min (Variable Speed)
Transmission Motor Power	1.1 kW
Cloth Driving Motor Power	0.75 kW
Steam Pressure	0.4–0.8 MPa
Overall Dimensions (L × W × H)	1600 × 3200 × 1750 mm
Machine Weight	800 kg

Standard Features

- Heavy-duty stainless steel construction for long service life.
- Variable-speed roller drive for smooth and uniform fabric movement.
- Low-tension dyeing process to protect delicate fabrics.
- Uniform dye liquor circulation for consistent dyeing results.
- Steam heating system for efficient temperature control.
- Easy operation and maintenance.
- Suitable for woven, knitted, and blended fabrics.
- Compact design with stable and reliable performance.

HYDRO EXTRACTOR

Model: GA-HD 053698 M
Origin: Made in China

Product Overview

The **GA-HD 053698 M Hydro Extractor** is a high-performance centrifugal dewatering machine designed for the efficient removal of excess water from fabrics, yarn bobbins, and hanks after washing or dyeing. Constructed with a durable stainless-steel body and equipped with a high-speed rotating basket, the machine provides rapid and effective moisture extraction while ensuring safe and reliable operation. It is ideal for textile dyeing laboratories, garment industries, and textile processing plants.

Technical Specifications

Item	Specification
Machine Type	Hydro Extractor
Model	GA-HD 053698 M
Application	Fabrics, Bobbins and Hanks
Load Capacity	6 kg
Basket Diameter	400 mm
Basket Dimensions (D × H × Volume)	400 × 300 mm × 34 Liters
Basket Rotation Speed	1,450 RPM (Standard) or Variable Speed with Inverter
Machine Dimensions (L × W × H)	610 × 515 × 760 mm
Body Material	Stainless Steel
Power	1.10 kW
Basket Volume	34 Liters
Safety Device	Safety Interlock Cover

Standard Features

- High-speed centrifugal extraction for rapid moisture removal.
- Suitable for fabrics, yarn bobbins, and hanks.
- Heavy-duty stainless-steel construction for durability and corrosion resistance.
- 400 mm perforated basket for efficient water extraction.
- High-speed operation at 1,450 RPM with optional inverter control.
- Safety interlock cover for enhanced operator protection.
- Compact, space-saving design with stable operation.
- Low vibration, low maintenance, and long service life.
- Suitable for continuous operation in textile processing facilities.

Applications

The GA-HD 053698 M is designed for dewatering fabrics, yarn packages, hanks, and bobbins after washing, dyeing, and finishing operations. It is widely used in textile dyeing laboratories, textile mills, garment factories, research institutes, and quality control departments.

Warranty

One (1) Year from the date of commissioning against manufacturing defects, subject to the manufacturer's standard terms and conditions.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

MINI CALENDARING MACHINE

Model: GA-MCM 053 CM
Origin: Made in China

Product Overview

The **GA-MCM 053 CM Mini Calendaring Machine** is a compact, high-performance finishing machine designed for laboratory and small-scale textile production. It is suitable for calendaring cotton, silk, wool, hemp, chemical fibers, blended fabrics, and other textile materials. The machine utilizes a heated chrome roller and a nylon pressure roller to produce smooth, glossy, and uniformly finished fabrics. It can also be used for thermal transfer printing and the processing of paper, plastic packaging materials, and certain building materials.

Technical Specifications

Item	Specification
Machine Type	Mini Calendaring Machine
Model	GA-MCM 053 CM
Application	Textile Finishing & Thermal Transfer Printing
Upper Roller	Nylon Roller, Ø150 × 400 mm
Lower Roller	Chrome-Plated Roller, Ø150 × 400 mm
Roller Arrangement	Vertical Upper & Lower Rollers
Roller Speed	0-6 m/min (Variable)
Pressure System	Hydraulic Compression
Line Pressure	5 Tons
Heating System	Electric Heating
Heating Power	4.5 kW
Temperature	180°C

Item	Specification
Drive Motor	3.0 kW
Safety Devices	Manual Emergency Stop & Foot Pedal Emergency Stop

Standard Features

- Suitable for calendaring cotton, silk, wool, hemp, chemical fibers, and blended fabrics.
- Applicable to thermal transfer printing and processing of paper and plastic packaging materials.
- High-quality **chrome-plated heated roller** for excellent surface finishing.
- Durable **nylon pressure roller** providing uniform pressure distribution.
- Variable roller speed from **0 to 6 m/min**.
- Hydraulic pressure system with a line pressure of **5 tons**.
- Electric heating system with a operating temperature of **180°C**.
- Mirror-finished chrome roller for superior fabric gloss and smoothness.
- Vertical roller arrangement for stable and efficient operation.
- Equipped with manual and foot-operated emergency stop switches for enhanced operator safety.
- Heavy-duty construction with reliable performance and easy maintenance.

Applications

The GA-MCM 053 CM is ideal for laboratory fabric finishing, textile research, quality control, thermal transfer printing, and small-scale production. It is suitable for cotton, silk, wool, hemp, synthetic fibers, blended fabrics, paper products, plastic packaging materials, and other heat-processed materials.

Warranty

One (1) Year from the date of commissioning against manufacturing defects, subject to the manufacturer's standard terms and conditions.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

DRAWING & REACHING ACCESSORIES

Model: GA-DRA 88
Origin: Made in China

Product Overview

The **GA-DRA 88 Drawing & Reaching Accessories** are designed to facilitate efficient warp drawing and reaching operations during loom preparation. The complete accessory set includes essential tools such as a drawing hook, beam stand, and other standard accessories required for accurate warp threading through healds and reeds. Manufactured from high-quality materials, these accessories provide durability, precision, and ease of operation, making them suitable for textile mills, weaving laboratories, and training institutes.

Technical Specifications

Item	Specification
Product Type	Drawing & Reaching Accessories
Model	GA-DRA 88
Application	Warp Drawing and Loom Preparation
Standard Accessories	Drawing Hook, Beam Stand, and Complete Standard Drawing & Reaching Accessories
Construction	Heavy-Duty Industrial Grade

Standard Features

- Complete set of drawing and reaching accessories.
- Includes drawing hook, beam stand, and all necessary standard accessories.
- Designed for accurate warp drawing and reaching operations.

- Heavy-duty construction for long service life.
- Ergonomic design for easy handling and improved productivity.
- Compatible with hand looms, power looms, rapier looms, air jet looms, and other weaving machines.
- Suitable for textile laboratories, educational institutions, weaving workshops, and industrial textile mills.
- Low maintenance and reliable performance.

Applications

The GA-DRA 88 Drawing & Reaching Accessories are used for warp drawing, warp reaching, loom preparation, and maintenance in textile mills, weaving factories, textile laboratories, research institutes, and textile training centers.

Warranty

One (1) Year from the date of commissioning against manufacturing defects, subject to the manufacturer's standard terms and conditions.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

COMPUTERIZED COLOR MATCHING SYSTEM

Model: GA-CCM 33388
Origin: Made in China

Product Overview

The **GA-CCM 33388 Computerized Color Matching System** is a complete color measurement and formulation solution designed for textile laboratories, dyeing industries, and quality control departments. Featuring a high-precision bench-top spectrophotometer with advanced color matching software, the system enables accurate color formulation, shade evaluation, and quality control while minimizing rework and reducing product development time. It is ideal for small- to medium-sized manufacturers seeking reliable and cost-effective color management.

Technical Specifications

Item	Specification
Machine Type	Computerized Color Matching System
Model	GA-CCM 33388
Instrument Type	Bench-Top Spectrophotometer
Short-Term Repeatability	≤ 0.05 ΔE*ab (White Ceramic Standard)
Measurement Geometry	d/8°
Inter-Instrument Agreement	Average ≤ 0.20 ΔE*ab
Measurement Spot Size	8 mm
Target Window	14 mm

Item	Specification
Measurement Time	2 Seconds
Measurement Cycle	2 Seconds
Light Source	Gas-Filled Tungsten Lamp with UV LEDs
Lamp Life	500,000 Measurements
Photometric Range	0 –200%
Photometric Resolution	0.01%
Spectral Analyzer	Blue-Enhanced Silicon Photodiodes
Spectral Interval	10 nm (Measured & Output)
Spectral Range	400 nm
Software Compatibility	Color iQC

Standard Features

- High-precision bench-top spectrophotometer for color measurement and formulation.
- Accurate color matching and quality control for laboratory and production environments.
- Fast measurement cycle of approximately **2 seconds**.
- Excellent repeatability and inter-instrument agreement.
- Advanced **d/8° measurement geometry** for reliable color analysis.
- Long-life light source with approximately **500,000 measurements**.
- UV LED illumination for improved textile color evaluation.
- Compatible with **Color iQC**, **Color iMatch**, or equivalent color management software.
- User-friendly interface for shade formulation, color correction, and quality control.
- Designed to reduce laboratory rework and improve production consistency.

Standard Accessories

No.	Item	Quantity
1	Desktop Computer (Latest Configuration)	1 Set
2	19-inch Monitor	1 Piece
3	Inkjet Color Printer	1 Piece
4	USB Keyboard & Mouse	1 Set
5	Mouse Pad	1 Piece
6	A4 Paper	1 Box
7	UV Filter	1 Piece
8	Color iQC Software	1 License

Applications

The GA-CCM 33388 is suitable for textile dyeing laboratories, garment industries, textile research institutes, quality control laboratories, color formulation centers, and production facilities requiring accurate color matching, shade evaluation, and color consistency.

Warranty

Warranty: One (1) Year from the date of commissioning against manufacturing defects, subject to the manufacturer's standard terms and conditions.

青岛国傲机械有限公司
QINGDAO GUOAO MACHINERY CO., LTD
ADD: No.1507, Yinzhushan Road, Lingang Industrial Park, Qingdao, China,

COMPUTERIZED PATTERN MAKING, LAYING & CUTTING MACHINE (GARMENT CAD/CAM SYSTEM)

Model: GA-CLC B4W
Origin: Made in China

Product Overview

The **GA-CLC B4W Computerized Pattern Making, Laying & Cutting Machine** is an advanced **Garment CAD/CAM System** designed to streamline apparel design, pattern development, grading, marker making, plotting, and automatic cutting. The integrated system combines powerful CAD software with high-precision CAM equipment, enabling garment manufacturers to improve production efficiency, reduce material waste, and ensure accurate pattern development. It is an ideal solution for garment factories, fashion institutes, apparel exporters, and textile research organizations.

System Configuration

The complete system includes:

- Garment CAD Software
- Digitizer
- Pen Plotter
- Inkjet Plotter
- Automatic Cutting Plotter
- Desktop Computer
- Printer

Garment CAD Software Features

Style Design

- Comprehensive garment style design tools.
- International standard **PANTONE Textile Color Card** support.
- Built-in style library, fabric library, and component library.
- Open platform for customized design development.

Pattern Design

- Proportion pattern making.
- Formula-based pattern making.
- Prototype pattern making.
- Intelligent structure-line pattern making.
- Easy editing and modification tools.

Grading

- Automatic grading.
- Specification grading.
- Equal and unequal grading.
- Copy grading.
- Direct grading after pattern input.
- Flexible grading without resetting pattern parameters.

Auto Marking

- Intelligent marker making.
- Material utilization optimization.
- Automatic layout generation for improved fabric efficiency.

Process Design

- Digital production process management.
- Graphic tools for stitch, button, zipper, seam, covering stitch and other garment operations.
- Text and graphic-based process documentation.

Data Conversion

- Supports long-distance data transmission.
- Compatible with multiple CAD/CAM data formats.
- Easy information exchange between manufacturers and design centers.

Garment CAM Specifications

Digitizer

Item	Specification
Effective Area	44 × 60 Inches
Resolution	2540 DPI
Operation	16-Key Positioning System

Pen Plotter

Item	Specification
Paper Width	1680 mm
Plot Width	1600 mm
Plot Length	Unlimited
Paper Type	50–110 g/m²

Item	Specification
Paper Width	36"–63"
Roll Diameter	6.5"
Plotting Speed	60 cm/sec
Accuracy	±0.1 mm (0.15%)
Character Size	5 × 5 mm
Pen Pressure	50–240 g
Drive System	Stepping Subdivision Motor
CPU	16-Bit DSP
Interface	Serial / Parallel Port
Power Supply	AC 110–250 V, 50/60 Hz
Power Consumption	120 W (Max.)

Inkjet Plotter

Item	Specification
Media Width	188 cm
Effective Print Width	183 cm
Print Heads	2
Printing Speed	60 m^2/hour
Resolution	150 DPI
Print Head Model	51645A
Ink Supply	Continuous Ink Refill
Control System	Servo + Step Motor
Paper Type	25–65 g/m^2
Roll Weight	50 kg
Interface	USB 2.0
File Formats	HPG, HPGL2, DMPL, DXF
Power Supply	AC 110/220 V, 50/60 Hz
Operating Temperature	5°C–50°C
Humidity	0–95% RH

Automatic Cutting Plotter

Item	Specification
Effective Cutting Area	1.5 × 1.0 m
Cutting Speed	1000 mm/sec
Cutting Pressure	15 kgf
Media Holding	Vacuum
Blade/Pen	One Blade, One Pen
Cutting Materials	Cardboard, Brown Paper, PE Board, Fiber Board, Rigid Cardboard

Item	Specification
Recommended Material Weight	200–350 g/m²
Material Thickness	1.5 mm
Accuracy	±0.1%
CPU	16-Bit DSP
Motor	High Precision Step Motor
Display	LCD
Interface	Serial / Parallel
Memory	2 MB
Language	HPGL
Power Supply	AC 220 V ±20 V, 50 Hz
Machine Dimensions	2.00 × 1.52 × 0.85 m
Machine Weight	240 kg

Standard Features

- Complete **Garment CAD/CAM** solution for apparel production.
- Advanced style, pattern, grading, and marker design software.
- Intelligent fabric utilization through automatic marker generation.
- High-resolution digitizer for precise pattern input.
- High-speed pen plotter for accurate pattern drawing.
- Industrial inkjet plotter for large-format pattern printing.
- Vacuum automatic cutting plotter with high cutting accuracy.
- Supports multiple international CAD data formats.
- User-friendly software with USB data transfer capability.
- Suitable for industrial garment manufacturing and educational institutions.

Standard Accessories

- Desktop Computer
- LCD Monitor
- Inkjet Printer
- Keyboard & Mouse
- Complete Garment CAD Software
- Digitizer
- Pen Plotter
- Inkjet Plotter
- Automatic Cutting Plotter
- User Manual
- Installation and Operating Software

Applications

The **GA-CLC B4W** is suitable for garment manufacturers, knitwear industries, woven apparel factories, fashion design institutes, textile universities, apparel exporters, sampling

departments, and research laboratories. It supports the complete workflow from garment design and pattern development to grading, marker making, plotting, and precision cutting.

Warranty

One (1) Year from the date of commissioning against manufacturing defects, subject to the manufacturer's standard terms and conditions.