Join the China AISUNNY *Today!*

Explore our catalog, schedule a factory tour, or request a demo.

Let's weave success together.

Innovation Engineered. Trust Delivered.

Specifications and offers subject to regional availability.

Partner with us for tailored solutions.

CHINA AISUNNY MACHINERY GROUP CO.,LTD

Mob/Whatsapp: +86 1377 6750 648

Email: 1005299150@qq.com,ast@aisunny.com

Website: www.aisunny.com

Add: Quanzhou,Fujian,China

CHINA AISUNNY MACHINERY GROUP CO.,LTD

DRIVE EXCELLENCE

KNITTING FOR THE FUTURE



ABOUT US

AISUNNY Machinery is a pioneering high-tech enterprise dedicated to designing, manufacturing, and supplying premium circular knitting machines for the global textile and apparel industries. With over two decades of expertise, we are trusted by manufacturers in India, Turkey, Vietnam, and beyond for our innovative solutions and unwavering commitment to quality.

Why Choose AISUNNY Machinery?

Cutting-Edge Technology:

High-Grade materials in Frame, Heart, Cylinder & Cam Sets: Ensure unmatched machine stability and precision.
Patented Designs: Certified by Chinese government agencies for innovation and reliability.

Comprehensive Product Portfolio:

Single/Double Jersey Machines | Jacquard & Rib Machines
Terry & Fleece Machines | Open-Width & High-Speed Models

Global Service Network:

On-Site Support: From raw material selection to machine installation and training.
24/7 Technical Back-Up: Minimize downtime with real-time troubleshooting.

Innovation at Scale

R&D Excellence:
Collaborates with 15+ domestic engineers and 5 international designers.
Focuses on OEM customization, energy-efficient upgrades, and smart IoT integration.

Manufacturing Prowess:
10,000+ sqm Production Facility: Located in Fujian Quanzhou Economic Zone.
Annual Output: 1000+ machines, tailored for diverse market demands.

Client-Centric Solutions

Global Success Stories:
Delivered 20,000+ machines to 30+ countries since 1996.
Trusted by brands producing sportswear, luxury fabrics, and industrial textiles.

Tailored Partnerships:
Customize machines for 3-thread fleece, electronic jacquard, or eco-friendly fabrics.
Optimize ROI with energy-saving models (15–40 RPM) and ≤15% material waste.

Our Commitment

Quality Assurance:
- ISO-certified production with German/Japanese alloy components.
- Rigorous QC checks for stitch precision and durability.

Sustainable Growth:
- Recyclable materials | Low-power inverters | Lifetime technical support.

AISUNNY MACHINERY COMPANY

Your Global Partner in Knitting Technology Excellence

CORE ADVANTAGE



OWN TECHNOLOGY

01

In the production of castings, we have the source frame casting process to ensure the quality of the circular machine frame structure and avoid casting defects such as cold insulation and pores. This greatly improves the strength and stability of the components and provides a solid foundation for the excellent performance of the product.

02

STABLE PERFORMANCE

In the production and processing of the rack structure, in order to avoid problems such as shrinkage, porosity, and pores, natural aging measures will be taken for more than two years to ensure the stability of the product, improve the durability of the equipment, and provide customers with better a cost-effective product.







03

SEIKO QUALITY

Strong technical strength and sophisticated manufacturing capabilities are the basis for AISUNNY to conduct business. In the production process, AISUNNY uses domestic advanced production equipment to ensure the accuracy of corecomponents with an error ofless than 0.01mm, making the fabric productsmore uniform and delicate, and meeting the high standards of customers.

QUALITY ASSURANCE

We have a complete and strict product quality inspection system. Ever process from the frame system to the yarn supply system, from the transmission system to the electrical control system strictly implements international standards; from raw material procurement to fnished product deliver, ever link strives for excellence, Ensure that ever circular kniting machine produced by AISUNNY has relialblity and excelent quality.

04



SERVE WITH HEART

We serve every link with care and are committed to providing customers with a comprehensive and meticulous service experience:

05

PRE-SALES CONSULTATION

One-to-one professional consultation, providing professional solution customization services to ensure that equipment selection accurately matches needs.

INSTALLATION AND DEBUGGING

Experienced technical personnel provide customers with on-site installation and debugging services to ensure that the equipment is put into production smoothly and reaches its best condition.

AFTER-SALES GUARANTE

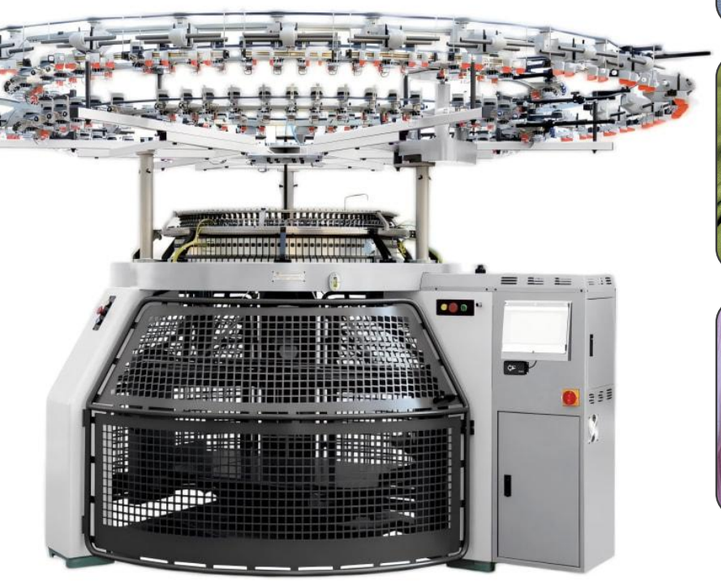
Provide comprehensive after-sales guarantee services, including regular maintenance, troubleshooting, etc., so that customers have no worries.

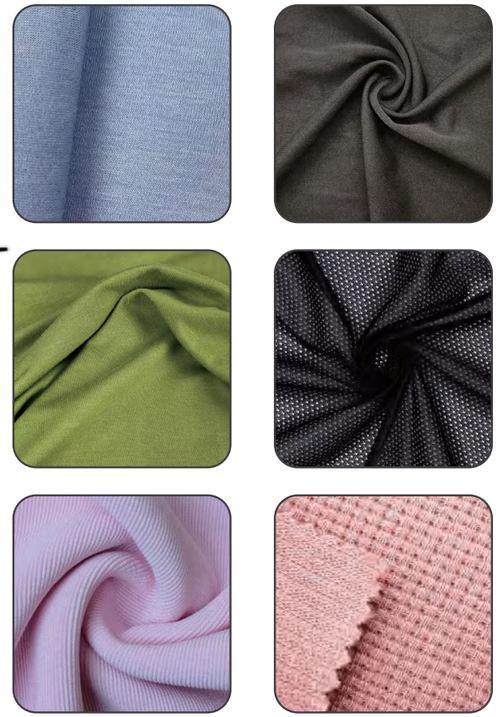
TRAINING SERVICES

Provide customers with comprehensive training on product operation, technical training, maintenance, etc. to improve production effciency.

HIGH-SPEED SINGLE JERSEY CIRCULAR KNITTING MACHINE

Precision · Versatility · Profitability





FABRIC APPLICATIONS:

T-shirts, sportswear, swimwear, leisure, underwear & nightwear, medical textiles, industrial liners.

CORE ADVANTAGES

User-Focused Engineering for Unmatched ROI



ThermoCool™ Heat Management:

Enhanced Heat Dissipation: 25% longer machine lifespan with zero performance drop.
Simplified Operation: Intuitive controls for error-free workflows.
Premium Fabric Finish: Flawless surface quality for luxury textiles.

Smart Power System:

High-Torque Motor + AI Inverter: 30% energy savings with real-time anomaly detection.
Data-Driven Insights: Track production metrics via IoT-enabled control panel.

Quad-Track Cam System:

Multi-Fabric Mastery: Knit cotton, blends, TTC double-layer, and technical fabrics.
Density Flexibility: Easy Adjustment range for sportswear, swimwear, and leisurewear.

STANDARD EQUIPMENT

- Positive Feeding Device
- Auto-Lubrication System
- High-Speed Take-Down Mechanism
- Automatic Cleaning Device
- Yarn Creel System

TECHNICAL SPECIFICATIONS

Diameter	26″–44″ (3–6 feeders/inch)
Gauge	7G–50G
Feeders	78F–264F
Speed	18–40 RPM

Engineered for Excellence.
Trusted by Global Textile Innovators.



YOUR BENEFITS

40% Faster ROI: High-speed production (Up to30–40 RPM) .
Lower Costs: Reduced downtime + predictive maintenance alerts.
Market Dominance: Capture trends with rapid fabric switching.

OPTIONAL UPGRADES

- Lycra Feeder Units
- Fabric Folding Unit
- Yarn Input Measurement
- Open Width Frame
- Yarn Breakage & Needle Protection Sensors
- Smart Networking Module

Subject to technical changes. Illustrations may show accessories that are not included in the standard version.

SINGLE JERSEY OPEN-WIDTH CIRCULAR KNITTING MACHINE

Precision · Efficiency · Reliability





FABRIC APPLICATIONS:

Swimwear, Sports & leisure, Underwear & nightwear, Outerwear, Automotive, Mattress

CORE ADVANTAGES

User-Focused Innovations for Seamless Production



TensionGuard™ System:

Consistent Fabric Tension: Extends needle lifespan by 30%.
Uniform Roll Density: Eliminate head-to-tail weight variations.

Smart Winding Technology:

Synchronous Roll Control: Zero tension marks or water ripples.
Quick-Release Roller: Tubular design enables easy fabric removal.

Advanced Safety & Adjustability:

Auto-Stop Safety: Halts operation on incomplete cuts.
Adjustable Spreader: Optimize fabric alignment for flawless rolls.

STANDARD EQUIPMENT

- Positive Feeding Device
- Auto-Lubrication System
- High-Precision Take-Down Mechanism
- Automatic Cleaning Device
- Yarn Creel System

TECHNICAL SPECIFICATIONS

Diameter	26″–42″
Gauge	7G–42G
Feeders	48F–252F
Speed	16–24 RPM

Engineered for Perfection. Trusted by Global Textile Leaders.

YOUR BENEFITS

Zero Fabric Waste: Smooth edges + reduced edge fraying.
Lower Maintenance: Precision pressjack system minimizes needle wear.
Elastic Fabric Mastery: Ideal for stretch fabrics (Lycra, spandex blends).

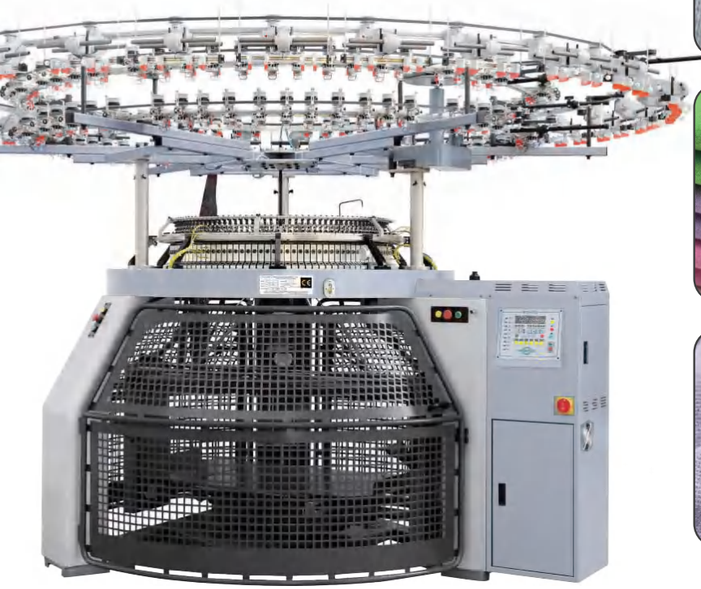
OPTIONAL UPGRADES

- Lycra Feeder Units.
- Yarn Input Measurement
- Smart Networking Module
- Yarn Breakage & Needle Protection Sensors

Specifications subject to technical advancements. Optional features shown for illustration.

Three Thread Fleece Knitting Machine

Flagship · Versatility · Excellence















FABRIC APPLICATION:

Sports & leisure, Outwears

CORE ADVANTAGES

Ensure to cover black dots (LSF Tight Knit fleece)
Fabric is elastic even without adding Lycra feeders.

Multi-System Interchangeability:

Easy to convert for Terry/Single Jersey.
Reliable machine production to ensure the black yarn is hidden in the fabric.

Elite Performance:

Precision-engineered for unmatched speed and fabric consistency.

Industry Benchmark:

Top choice for global apparel brands seeking premium fleece fabrics.



STANDARD EQUIPMENT

- Positive Feeding Device
- Auto-Lubrication System
- High-Speed Take-Down Mechanism
- Automatic Cleaning Device
- Yarn Creel System

TECHNICAL SPECIFICATIONS

Diameter	26″–44″ (3–3.2 feeders/inch)
Gauge	10G–24G
Feeders	78F–142F
Speed	18–30 RPM

Engineered for Perfection.
Trusted by Global Textile Leaders.

YOUR BENEFITS

Improved machine utilization
Less down time = high utilization
Reliable fabric quality

OPTIONAL UPGRADES

- Lycra Feeder Units.
- Folding Device
- Open Width Frame
- Yarn Input Measurement
- Smart Networking Module
- Yarn Breakage & Needle Protection Sensors

Specifications subject to technical advancements. Optional features shown for illustration.



HIGH-GAUGE DOUBLE-JERSEY CIRCULAR KNITTING MACHINE

Flagship · Versatility · Excellence





APPLICATIONS:
Activewear, upholstery,
luxury fashion, technical textiles.

CORE ADVANTAGES

Industry-Leading Innovation for Premium Fabrics

Multi-Track Cam System:

4-Track Cylinder + 2-Track Dial: Seamlessly switch between complex patterns (tiny jacquard, seersucker, interlock).
CAD-Carved Cams: Ultra-precise stitch formation for flawless textures.

High-Speed Durability:

Japanese Alloy Steel Cylinder: Heat-resistant + wear-proof for 24/7 operation.
German Ball Bearing System: Ensures synchronized motion at 15–30 RPM.

Smart Flexibility:

Lycra Integration: Produce stretch fabrics for luxury apparel.
AI-Driven Controls: Easily adjust needle/cam arrangements for diverse styles.



STANDARD EQUIPMENT

- Positive Feeding Device
- Auto-Lubrication System
- High-Speed Take-Down Mechanism
- Automatic Cleaning Device
- Yarn Creel System

TECHNICAL SPECIFICATIONS

Diameter	26″–44″
Gauge	18G–50G
Feeders	52F–122F
Speed	15–30 RPM

Engineered for Excellence.
Trusted by Global Textile Innovators.

YOUR BENEFITS

50% Higher Output: Optimized for high-speed, high-volume production.
Cost Efficiency: Reduced maintenance + energy-saving inverter system.
Market Leadership: Craft technical textiles competitors can't replicate.

OPTIONAL UPGRADES

- Lycra Feeder Units.
- Folding Device
- Yarn Input Measurement
- Open Width Frame
- Smart Networking Module
- Yarn Breakage & Needle Protection Sensors

Specifications subject to technical upgrades. Optional features shown for illustration.

DOUBLE-JERSEY OPEN-WIDTH CIRCULAR KNITTING MACHINE

Precision · Versatility · Profitability













APPLICATIONS:

Activewear, upholstery, technical textiles, high-end fashion.

CORE ADVANTAGES

Innovative Design for Seamless Fabric Excellence

4-Track Cylinder + 2-Track Dial:

Multi-Pattern Flexibility: Knit jacquard, twill, stripes, and technical fabrics.
Elasticity Enhancement: Hydrogen wheel integration for stretchable textiles.

Zero-Crease Fabric Rolls:

Full Fabric Utilization: Minimize waste + reduce production costs by 20%.
High-Speed Winding: 15–30 RPM operation for fast output.

High-Precision Engineering:

Durable Construction: Ensures fabric quality for luxury and industrial applications.



STANDARD EQUIPMENT

- Positive Feeding Device
- Auto-Lubrication System
- High-Speed Take-Down Mechanism
- Automatic Cleaning Device
- Yarn Creel System

TECHNICAL SPECIFICATIONS

Diameter	26″–44″
Gauge	18G–50G
Feeders	52F–122F
Speed	15–30 RPM

Engineered for Perfection.
Trusted by Global Textile Pioneers.

YOUR BENEFITS

30% Higher Efficiency: Optimized feeder systems (2.1–2.8 feeders/inch).
Lower Operational Costs: Reduced trimming loss + energy-efficient design.
Market Agility: Switch between fabric styles in ≤2 hours.

OPTIONAL UPGRADES

- Lycra Feeder Units.
- Yarn Input Measurement
- Smart Networking Module
- Yarn Breakage & Needle Protection Sensors

Specifications subject to technical advancements. Optional features shown for illustration.

Electronic Jacquard Single Jersey Knitting Machine

Precision · Innovation · Efficiency





FABRIC APPLICATIONS:

Swimwear | Outerwear | Sportswear

Home Textiles | Automotive Interiors | Nightwear

CORE ADVANTAGES

User-Centric Technologies for Unmatched ROI

3-Way Needle Selection:

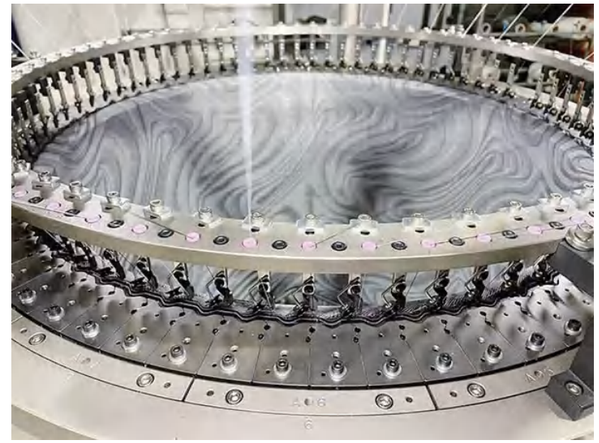
Knit/Tuck/Float: Unlimited pattern flexibility.
Complex Designs Simplified: Convert intricate patterns to flawless knits via USB.

Smart Encoder System:

Auto-Calibration: Eliminates startup/shutdown errors.
Zero-Position Accuracy: Dual-check system ensures needle alignment precision.

Seamless Integration:

Real-Time Stability: Control system monitors encoder signals for consistent performance.



STANDARD EQUIPMENT

- Feeding Units Specific For Electronic Jacquard Machine
- Automatic Lubrication System
- Automatic Cleaning Device
- High-Speed Take-Down Mechanism
- Yarn Creel System
- Two or Three Ways Needle Selection
- Jacquard-Specific Control Cabinet

TECHNICAL SPECIFICATIONS

Diameter	26″–38″(1.8/2/2.1 feeders per inch)
Gauge	7G–32G
Feeders	46F–80F
Speed	15–25 RPM

Engineered for Excellence.
Trusted by Global Textile Leaders.

YOUR BENEFITS

Zero Downtime: Instant pattern switching with digital controls.
Cost Efficiency: Reduced maintenance + minimized fabric defects.
Competitive Edge: Produce premium jacquard fabrics faster than competitors.

OPTIONAL UPGRADES

- Lycra Feeding Kits
- Fabric Folding Device
- Yarn Input Measurement
- Machine Networking for Smart Production
- Yarn Breakage & Needle Stop Sensors

Specifications subject to technical advancements. Illustrations may include optional features.

Electronic Jacquard Double Jersey Knitting Machine

Precision · Speed · Reliability





FABRIC APPLICATIONS:

Mattress Covers | Bedspreads | Luxury Outerwear
Cushion Fabrics | Industrial Textiles

CORE ADVANTAGES

User-Centric Innovations for Maximum ROI

Smart Needle Selection System:

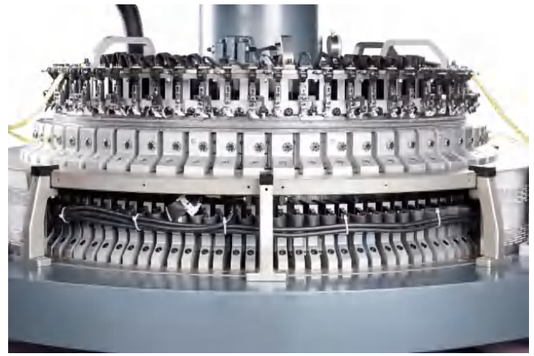
2-way technical dial & 3-way technical cylinder (5-way jacquard system) allows two sides with different designs & more 3D feelings..
Unlimited Designs: USB-driven control programs eliminate pattern-switching downtime.
Complex Fabrics Made Simple: Convert intricate patterns to flawless knits instantly.

High-Efficiency Cam System:

Low Maintenance: Minimal needle wear.
High RPM Operation: 15-25 RPM productivity.

Premium Ceramic Yarn Guides:

Universal Compatibility: Works with all yarn types (cotton, polyester, blends).
Zero Defects: Prevents yarn guide detachment for consistent fabric quality.



STANDARD EQUIPMENT

- Automatic Lubrication
- Automatic Cleaning Device
- Take-Down System
- Yarn Creel System
- Two/Three-Way Needle Selection
- Jacquard-Specific Control Cabinet

TECHNICAL SPECIFICATIONS

Diameter	26"-38"(1.6/1.8/2.1 feeders per inch)
Gauge	7G-32G
Feeders	42F-80F
Speed	15-25 RPM

Engineered for Your Success.
Trusted by Global Innovators.

YOUR BENEFITS

Faster Turnaround: Instant pattern changes via USB.
Cost Savings: Reduced downtime + lower maintenance costs.
Market Leadership: Produce high-value jacquard fabrics competitors can't match.

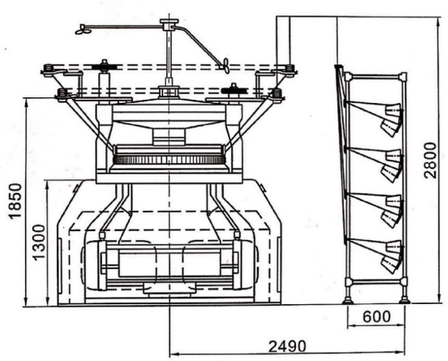
OPTIONAL UPGRADES

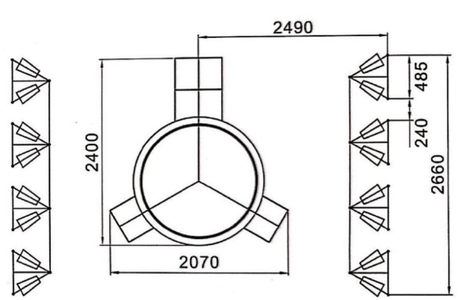
- Lycra Feeding Kits
- Fabric Folding Device
- Yarn Input Measurement
- Machine Networking System
- Yarn Breakage & Needle Detection Sensors

Specifications subject to technical advancements. Illustrations may include optional features.

PARAMETER SCHEME

EXTERNAL DIMENSION OF THE MACHINE





TOTAL NUMBER OF NEEDLES IN THE CYLINDER (REFERENCE TABLE)

Dia Of Cylinder / (N.P.I) Gauge	14″	15″	16″	17″	18″	19″	20″	21″	22″	23″	24″	25″	26″	28″	30″	32″	34″	36″	38″	42″	46″	48″
12	528	564	600	636	672	720	756	792	828	864	912	948	984	1056	1140	1212	1284	1356	1428	1580	1728	1800
16	708	756	816	864	912	960	1008	1056	1104	1152	1200	1260	1320	1404	1500	1620	1704	1800	1908	2112	2304	2400
19	840	900	960	1020	1080	1140	1200	1260	1320	1380	1440	1500	1560	1680	1800	1920	2040	2160	2280	2496	2736	2856
22	972	1032	1104	1180	1240	1320	1380	1440	1512	1584	1656	1728	1800	1920	2064	2208	2352	2496	2616	2904	3168	3312
26	1140	1224	1308	1380	1464	1560	1632	1716	1800	1872	1956	2040	2124	2280	2448	2616	2784	2940	3100	3432	3744	3912
30	1320	1416	1500	1608	1704	1800	1896	1980	2052	2172	2256	2352	2448	2640	2820	3012	3204	3384	3564	3960	4344	4512
36	1584	1704	1800	1920	2040	2136	2256	2376	2496	2592	2712	2832	2928	3168	3384	3624	3840	4080	4296	4752	5208	5424
40	1740	1884	2016	2136	2256	2376	2520	2640	2760	2880	3024	3144	3264	3528	3768	4008	4272	4512	4776	5280	5784	6024

DRIVE EXCELLENCE
KNITTING FOR THE FUTURE