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CYLINDRICAL HIGH-SPEED UV PRINTING SOLUTION

Bringing Precision Curved Printing to Your Fingertips

Shenzhen Moge Electronics Technology Co., Ltd.

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The Science of Perfect Curves -
Sub-Millimeter Ink Placement for Flawless Cylindrical Imaging

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Where genetic precision meets metallic curves -
Each 0.1mm breakthrough etches new industry summits

Pioneers of High-Speed Cylindrical UV Printing –
In the galaxy of smart manufacturing,
Moge shines as an enduring beacon,
Unlocking new dimensions in 3D surface printing technology

Company Profile

Factory real - scene photos

About us:

- National High-Tech certified Enterprise Founded in 2015
- Headquartered in Shenzhen's Longhua District | 3,000 ㎡ Smart Factory
- Specialized in R&D and Industrialization of High-Speed Industrial Cylindrical UV Printing Technology
- Over a Decade of Perfecting Cylindrical UV Printing Excellence

Core Expertise:

- Global Leadership in Multi-Printhead Configuration (CMYKLcLm+W+Varnish)
- Industry-Leading <0.1mm Registration Tolerance for 3D Substrates
- Patented Curved Surface Calibration Algorithm

Company Culture

Mission

To create value for customers

Vision

To become the industry-leading brand

Values

Customer orientation
Innovation-driven
Sustainable development

Enterprise Qualifications and Certifications

Patented Technology

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Cylindrical High-Speed UV Printing Solution

From thermos cups to fishing rods, 360° perfect printing achieves industrial curved surface aesthetics.

Product Catalog

1 CF600 High - Drop Cylindrical UV Printer

2 H300High - Speed Cylindrical UV Printer

3 MG-1500High-Speed Fishing Rod Dedicated Printer

4 MG-1500 Billiard Cue Precision Printer Series

CF600 High - Drop Cylindrical UV Printer

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Breaking Through Vertical Height Limits" – The Flagship Model for "Ultra-Precision Printing on Concave-Convex Surfaces。

Concave-Convex Surfaces Become Your 3D Canvas.

- 225mm High-Clearance Intelligent 3D Surface Printing System.
- Real-time surface scanning automatically adjusts printhead height and movement path to achieve seamless ink adhesion on complex surfaces with 25mm height variations.
- Dynamic Ink Control Technology:0-90° printing angle + 5-35pl droplet size adjustment for ultra-precise ink deposition.

Every Detail Emerges in Perfect Clarity.

- 1200dpi Ultra HD Printing – Hair's Breadth Precision"
- Pantone®-Grade Color Reproduction – Capturing Every Nuance
- CMYKLcLm+White+3D Varnish Synchronized Output – Gradient/Metallic/Tactile Effects Unified

Unit size: 1550MM (Length) × 1050MM (Width) × 2130MM (Height).excluding computer

5 Major Advantages

01 sharp reduction in cost
Eliminate screen printing plate-making/thermal transfer molds, and support orders starting from 1 piece

02 Efficiency Revolution
30-Second Quick-Change & 15-Minute Delivery

03 Green Intelligent Manufacturing
Environmentally friendly UV ink, certified by both FDA and RoHS.

04 All-Round Craftsmanship
Integrated Machine for Flat/Surface/Relief Printing

05 Military-Grade Endurance
Hours Continuous Production

Application Scenarios

- Luxury Cosmetic Packaging Customization
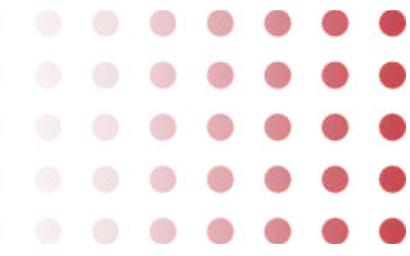- Beverage Container Label Printing
- Industrial component label printing

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Technical Parameters

Equipment Dimensions	1970MM*880MM*1950MM (Length* Width * Height)	**Print Head Type**	Toshiba CF3	**Software Support**	RIP software	
Equipment Weight	500KG	**Print speed**	25 seconds per piece, based on diameter 60MM * length 180MM, image CMYK	**Graphic Format**	TIFF,JPG,EPS,PDF,PNG,AI,PSD	
Component Diameter	Standard base: 60-170mm Optional : 10-60mm and 170-240mm	**Printing precision**	900*1200 DPI	**Power Supply**	50HZ AC220/110±>10A Ground Wire Required	
Taper/Drop	Taper: 0–5 degrees (lengthwise) / Drop: 25MM	**Ink type**	UV ink, 4 colors + white + varnish	**Environment**	Temperature: 20–30℃	Humidity: 30%–60%	
Printing Length	40MM-300MM	**ink Configuration**	BK、C、M、Y、W，V BK、C、M、Y、W，LC、LM、V P、BK、C、M、Y、W，LC、LM、V	**Application**	All cylindrical, conical components, and container-type products	

H300 High-Speed Cylindrical UV Printer

30-Second Masterpiece:
Ultra-High-Speed Printing Meets 4K Canvas-Quality Imaging.

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Crushes Traditional Printing Efficiency

- The multi - axis high - speed module, paired with industrial - grade servo motors, enables ultra - fast printing at a rate of one piece per 30 seconds.
- Magnetic quick - change fixture system: Supports 5 - second switching for 15 types of odd - shaped pieces, including lipstick tubes, pull - tab cans, and metal pen barrels.
- The intelligent path optimization algorithm reduces empty - travel movement by 30%.
- It takes only 30 seconds to preheat and start, with no waiting required.

The Art of Lightning Speed Without Compromise

- The new piezoelectric printhead maintains a color accuracy of $\Delta E \leq 1.5$ at 1200dpi high - speed mode.
- Dynamic drop compensation technology ensures no ink misting or fuzzy edges at a line speed of 60m/min, with minimum 1mm characters clear and sharp.
- The UV - LED curing system achieves instant drying in 0.4 seconds and simultaneously builds a wear - resistant coating of 5H hardness.

Unit size: 1550mm×1050mm×2130mm(L×W×H), excluding computer.

Application Scenarios

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- Beauty and Personal Care
- Beverage Containers
- Industrial Parts
- Cultural and creative products

Technical Parameters

Equipment Dimensions	1260MM*850MM*1850MM (Length* Width * Height)	**Print Head Type**	RICON G5I	**Software Support**	RIP software	
Equipment Weight	350KG	**Print speed**	30 seconds per piece, based on diameter 60mm × length 180mm, image CMYK	**Graphic Format**	TIFF,JPG,EPS,PDF,PNG,AI,PSD	
Component Diameter	Standard base: 60–170mm, Optional: 10–60mm and 170–240mm			**Power Supply**	50HZ AC220/110±>10A Ground Wire Required	
Taper/Drop	Taper: 0–8 degrees (length) / Drop: 15mm	**Printing precision**	900*1200 DPI	**Environment**	Temperature: 20–30°C | Humidity: 30%–60%	
		Ink type	UV ink, 4 colors + white + varnish	**Application**	All cylindrical, conical components, and container-type products	
Printing Length	40MM-300MM	**ink Configuration**	BK、C、M、Y、W，V BK、C、M、Y、W，LC、LM、V P、BK、C、M、Y、W，LC、LM、V			

MG-1500 Precision Billiard Cue Printer

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With "AI - driven precision seam - matching technology" and "environmentally - friendly UV printing process", it breaks through the boundaries of billiard cue craftsmanship and unleashes creative freedom in aesthetics, ushering in the "age of customized cues for everyone".

AI Precision Seam Alignment:
Ending Joint Disruptions

- Equipped with nanoscale optical positioning sensors and AI seam - matching algorithms, it automatically identifies the seams of the cue body and achieves a pattern - splicing accuracy of ±0.05mm, solving the traditional problem of "discontinuity" at the seams

Eco-friendly UV printing,
saying goodbye to paint pollution

- Eco-friendly UV inks (certified by RoHS and REACH) replace toxic paints; UV cold light curing technology enables instant drying, with zero pollution and low energy consumption

Usher in the Era of Customized Cues for Every Individual
Break free from the limitations of traditional screen printing and decal processes

- Vibrant Colors: No need for color separation or plate making. With a million - plus color library at your fingertips, every inch of color is reproduced with micron - level precision.
- Pattern Boundlessness: Supports multi - layer printing to create naked - eye 3D effects.
- Material Flexibility: Compatible with curved surfaces of wood, metal, carbon fiber, and other materials.

Unit size: 2600mm × 850mm × 1850mm (L × W × H), excluding the computer

5 Major Advantages

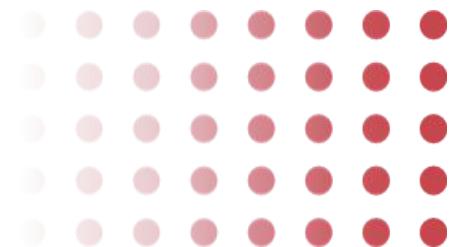| Traditional Screen Printing/Decal Processes	MG-1500
Obvious Seams (Manual Decal Misalignment >1mm)	Fully Automatic Seam Alignment Technology with ±0.05mm Precision
Paint Pollution (Benzene-Based Solvents with Excessive VOC Emissions)	Eco-Friendly UV Inks Replace Toxic Spray Paints: Green and Harmless
Long plate - making cycle (3 - 5 days per plate)	No Plate-Making Needed, Direct Printing from Design Files, 15-Minute Delivery
Monotonous Colors (≤5 Colors, No 3D Effects)	CCMYK + white ink + 3D varnish output simultaneously, with gradient precision of 0.1mm and support for 200,000 Pantone color codes.
High Scrap Rate >20% (Paint Runs, Air Bubbles)	Intelligent Anti-Drip Control: Scrap Rate < 0.3%

Application Scenarios

- › **High - end customization**
- › **Competition-Grade Equipment**
- › **Mass production**

MG-1500 Single/Double - row Billiard Cue Precision Printer

Technical Specifications

Equipment Dimensions	2600MM*850MM*1850MM (Length* Width * Height
Equipment Weight	800KG
Component Diameter	Standard based: 15 - 50mm, optional diameters of 10 - 60mm and 170 - 240mm available
Taper/ Drop	Taper: 0 - 2° (length)
Printing Length	0MM-1500MM
Printing Speed	180 seconds per rod, length 1200MM (Based on 1200MM length with CMYK imagery)
Printhead Type	EPSON F1080/I1600/RICOH G5I
Printing Resolution	720*1200 DPI
Ink Type	UV Inks: 4 Colors + White + Varnish
Ink Configuration	BK、C、M、Y、W、V BK、C、M、Y、W、LC、LM、V P、BK、C、M、Y、W、LC、LM、V
Software Support	RIP Software
Graphic and Text Format	TIFF,JPG,EPS,PDF,PNG,AI,PSD
Power Supply	50Hz, AC 220/110V ±10%, with grounding
Enviroment	Temperature: 20 - 30°C, Humidity: 30% - 60%
Application	Fishing rods, hiking poles, golf clubs, billiard cues, and other products and materials

MG1500 High-Speed Fishing Rod Printer

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Breaking through the limitations of traditional craftsmanship, achieves micron-level seamless printing on 1500MM long rods, leading the fishing tackle industry into a creative era of "unlimited colors and free patterns".

Seamless Printing from Tip to Tail.

- Break through the limitations of segmented printing, supporting full-format seamless printing for fishing rods up to 1500mm in length.
- Eliminates color difference and seam issues caused by splicing, with vertical printing precision reaching ±0.01mm.

Unleash Creative Freedom for Customized Rods:

One Rod, One Unique Design.

- Color Gamut Breakthrough: Achieves 99% of the Adobe RGB color space, accurately reproducing special natural colors such as peacock feather emerald green.
- Layer Revolution: Supports multi - layer printing to create naked - eye 3D effects.
- Material Flexibility: Compatible with special rod materials such as carbon fiber, fiberglass, and titanium alloy.

Unit size: 2600mm × 850mm × 1850mm (L × W × H), excluding computer

6 Major Advantages

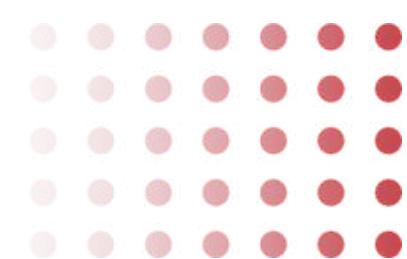| Traditional Screen Printing/Decal Processes	MG-1500
High plate - making cost (≥5,000RMB per plate)	No plate - making fee. Minimum order quantity: 1 piece
Scrap rate >15% (color registration misalignment, lamination bubbles)	Fully digital printing with a scrap rate of <0.5%
Long production cycle (including plate-making and drying: 3–7 days)	Fastest 15-minute delivery, supporting instant modifications
Color limitations (≤6 colors, harsh gradients)	CMYK + white ink + 3D varnish synchronous output, 0.1mm gradient accuracy, support for 200,000 Pantone color numbers.
Environmental Pollution: VOC emissions, waste plate disposal	Environmentally friendly UV inks, certified by RoHS/REACH
High labor dependency (requires skilled technicians)	Fully automated intelligent control reduces labor costs by 80%

Application Scenarios

> **High - end fishing tackle customization**

> **Customization of sports equipment**

> **Industrial Mass Production**

MG-1500 high - speed fishing rod printer

Technical Specifications

Equipment Dimensions	2600MM*850MM*1850MM (Length* Width * Height
Equipment Weight	800KG
Component Diameter	Standard based: 15 - 50mm, optional diameters of 10 - 60mm and 170 - 240mm available
Taper/ Drop	Taper: 0 - 2° (length)
Printing Length	0MM-1500MM
Printing Speed	180 seconds per rod, length 1200MM (Based on 1200MM length with CMYK imagery)
Printhead Type	EPSON F1080/I1600/RICOH G5I
Printing Resolution	720*1200 DPI
Ink Type	UV Inks: 4 Colors + White + Varnish
Ink Configuration	BK、C、M、Y、W、V BK、C、M、Y、W、LC、LM、V P、BK、C、M、Y、W、LC、LM、V
Software Support	RIP Software
Graphic and Text Format	TIFF,JPG,EPS,PDF,PNG,AI,PSD
Power Supply	50Hz, AC 220/110V ±10%, with grounding
Enviroment	Temperature: 20 - 30°C, Humidity: 30% - 60%
Application	Fishing rods, hiking poles, golf clubs, billiard cues, and other products and materials

Global
Service Network

Russia

United States

Spain

Italy

China

Mexico

UAE

India

Vietnam

Malaysia

Brazil

Argentina

Our products are sold to

United States, Mexico, Argentina, Brazil,
Russia, (Middle East) United Arab
Emirates, Spain, Italy, India, Vietnam,
Malaysia and so on

Innovated in China, Global Reach