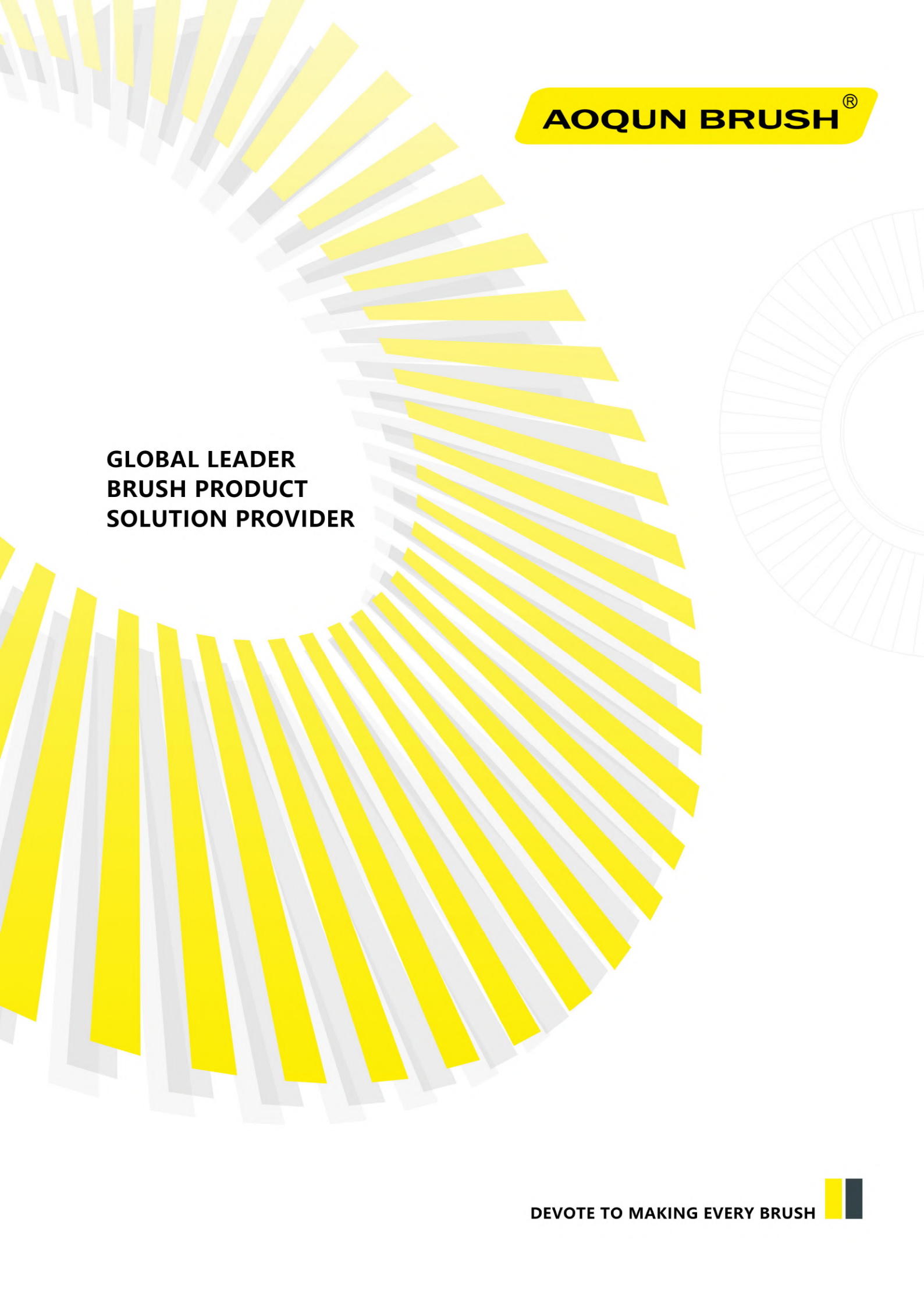




AOQUN BRUSH[®]

**GLOBAL LEADER
BRUSH PRODUCT
SOLUTION PROVIDER**

DEVOTE TO MAKING EVERY BRUSH



AOQUN BRUSH

GLOBAL LEADER BRUSH PRODUCT SOLUTION PROVIDER



A full-chain entity that integrates material R&D, brush manufacturing processes, brush-making equipment, and sterile delivery

Guangzhou Aoqun New Material Co., Ltd., known as Aoqun Brush, is a leading intelligent brush manufacturing brand and a pioneer in digital-core brush technology. As a fully integrated enterprise, we consolidate "material R&D — brush process preparation — proprietary manufacturing equipment — sterile delivery" into one seamless chain. The company has been recognized as a National "Little Giant" Enterprise (Specialized, Refined, Unique, and Innovative), a National High-Tech Enterprise, an Intellectual Property Demonstration Enterprise, and a Green Factory. We are committed to providing global customers with one-stop brush product solutions.

The company operates a technical engineering R&D center and a 100,000-class cleanroom. We hold 112 intellectual property rights (including 26 invention patents and 3 international patents), participated in drafting 1 national standard, and led the development of 8 industry/group standards. We have passed 9 management system certifications, including ISO 13485, ISO 9001/45001/14001/50001, and IATF 16949.

Aoqun Brush serves as a tier-1 supplier to 20 Fortune Global 500 companies such as CRRC, BYD, Hitachi, and Miele. Our products are sold to more than 50 countries and regions worldwide.

Our product range includes:

Biomedical and Medical Brushes: Medical device cleaning brushes, endoscope cleaning brushes, surgical hand scrubs, dental polishing brushes, cell sampling brushes, and more.

Industrial Brushes for Advanced Applications: Flexibly controllable surface treatment brushes for spacecraft, semiconductor wafer grinding and cleaning brushes, high-performance brushes for automotive intelligent manufacturing, and a complete series for cleaning, polishing, sealing, and energy saving across all scenarios.

Our products have obtained over 30 international certifications and approvals from Europe and the USA, such as FDA, CE, RoHS, SVHC, anti-microbial, and high-temperature resistance. They are widely used in modern emerging industries including biomedicine, military & aerospace, semiconductors, and automotive.

Guided by the principle of "Sincerity Builds Trust, Achievement Shapes the Future" and a spirit of "Professionalism, Dedication, and Focus," Aoqun Brush insists on scientific management and the pursuit of quality. We strive to craft every single brush with care, continuously drive industry innovation and development, and are dedicated to building an internationally outstanding national brand, fulfilling our mission to "Make the World Cleaner."

WE HAVE ACHIEVED 112+ INTELLECTUAL PROPERTY RESULTS,
INCLUDING 26+ INVENTION PATENTS AND 3+ INTERNATIONAL PATENTS.

发明专利

发明名称：一种耐高温耐磨毛刷材料及其制备方法

发明人：刘雪珍;王珉;刘志强

专利号：ZL 2023 1 1471255.1

专利申请日：2023年11月07日

专利权人：广州傲群刷业科技有限公司

地址：510000 广东省广州市南沙区东涌镇大街333号AB栋三樓

2024年05月28日

Title of Invention: High-Temperature Resistant and Wear-Resistant Brush Material and Preparation Method Thereof



11+ MANAGEMENT SYSTEM CERTIFICATIONS AND OVER 30 PRODUCT CERTIFICATIONS



FDA



CE



Antibacterial



ISO13485



ISO9001



ISO14001



ISO45001



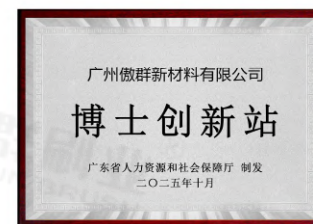
High-temperature resistant



High-tech enterprise



Green Factory



China Doctoral
Innovation Station



Guangdong Sci-Tech Scenario
Innovation Operation Service Station

R & D TEAM



**Engineering Technology
Research and Development Center**



**A 20-year senior
R&D expert**



**Over 100 advanced
R&D devices**

Constantly Innovating, Never Standing Still

Aoqun embraces the artisan spirit of Expertise, Dedication, and Focus, committed to in-depth research on the application requirements and usage demands of high-quality brushes. The company operates an engineering technology R&D center and has assembled a 20-year experienced R&D team that integrates diverse fields including materials, mold-making, injection molding, brush manufacturing, mechanical equipment, and electronic engineering. By gathering industry elites, Aoqun effectively combines advanced international information technologies and management models with its practical operations, striving to enhance production efficiency and improve product quality. This strong foundation provides robust support for the company's technological advantages and innovative capabilities.



WORKSHOP, EQUIPMENT, QUALITY CONTROL



CMK > 1.67

Final Product Pass Rate: ≥99.5%

On-Time Delivery Rate: ≥99%

Customer Satisfaction Rate: ≥98%

30 + Internationally Recognized Certifications:
FDA, CE, Antimicrobial, Heat Resistance

11 + Management System Certifications:
ISO 13485, ISO 14001, ISO 9001, IATF 16949

10 + Fully Automated Precision Brush
Manufacturing Technology

39 + Advanced Brush Manufacturing Processes

100 + Intelligent Brush Production Equipment



CPK > 1.67





Let's Build a Cleaner, Healthier, Safer World

Global Supply, Local Delivery. With an annual capacity of 250 million units, we offer 1-day quoting, 3-day prototyping, and 7-day delivery, ensuring a breakthrough in your efficiency and cost-effectiveness.

PROVIDING MORE PRECISE AND BETTER-SUITED BRUSHES



Endoscope cleaning



Cleaning of medical devices



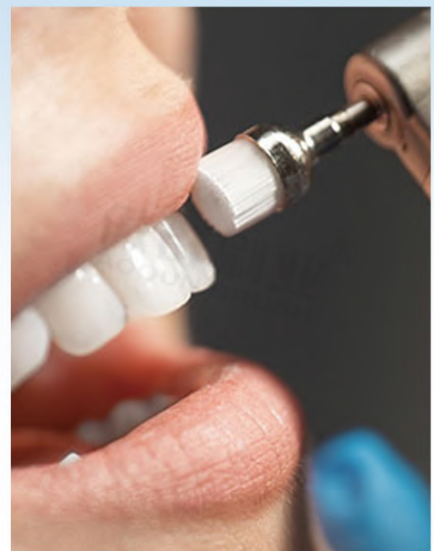
Cervical sampling



Medical handwashing



Cleaning of equipment pipelines

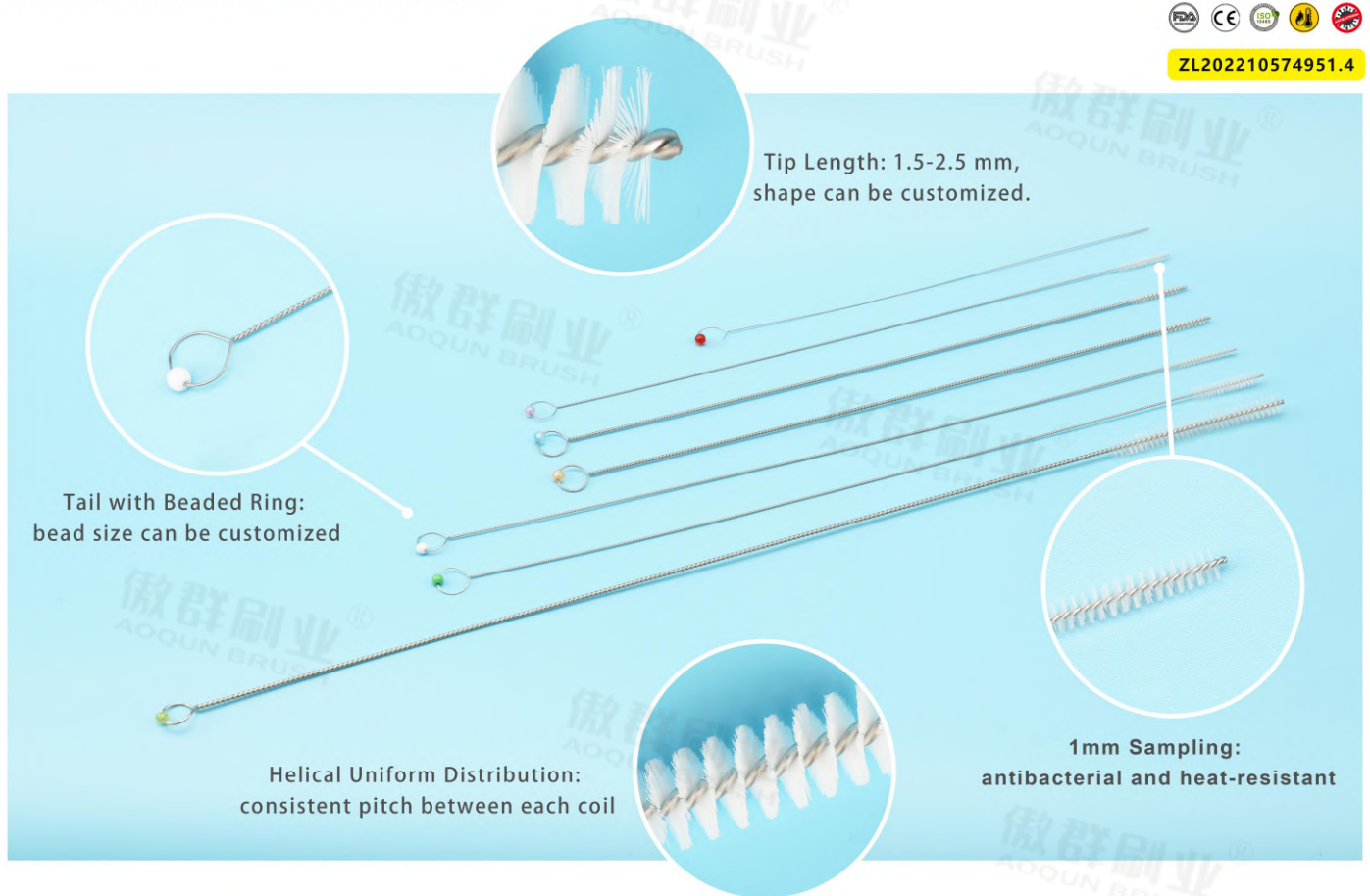


Dental polishing

A full-chain Entity that Integrates Material R&D, Brush Manufacturing Processes
Brush-making Equipment, and Sterile Delivery

CHANNEL CLEANING BRUSH--RIGID ENDOSCOPE BRUSH

PRODUCT ADVANTAGES

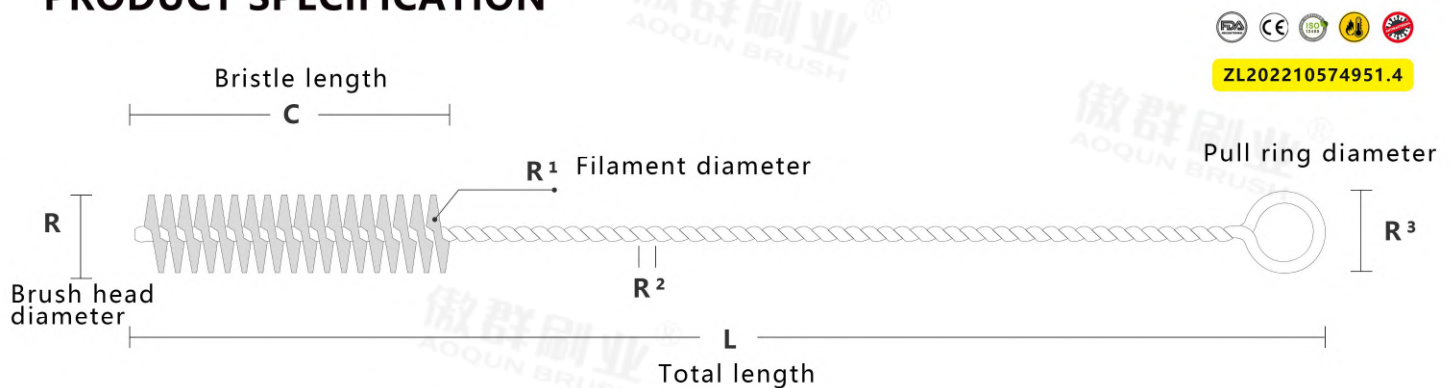


Aoqun's brushes feature watch-grade chamfering for a smooth, burr-free finish that protects instruments. The 360° helical design ensures tight contact with tube walls for superior cleaning. With antibacterial efficacy exceeding 1.5 times the ISO 22196 standard, it effectively inhibits bacterial growth. All materials comply with national and industry standards, and our products meet over 30 EU regulations including RoHS & SVHC, with options certified for U.S. FDA and Japanese antibacterial standards. Boasting an annual capacity of 200 million units, Aoqun products are exported to 50+ countries and regions. We maintain long-term partnerships with leading medical companies, offering a comprehensive range of up to 100 different specifications.



CHANNEL CLEANING BRUSH--RIGID ENDOSCOPE BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4

This instrument cleaning brush features a twisted stainless steel handle and nylon bristles embedded with an antimicrobial agent that inhibits the growth of bacteria, mold, and yeast on the surface. The brush is equipped with a loop end for easy grip. Nylon bristles are mounted on a twisted steel wire or spring coil, making it suitable for cleaning hard-to-reach corners. It features a looped handle at one end, with the pull ring tipped by a stainless steel bead.

Model	Brush Head Diameter(mm)	Bristle Length(mm)	Total Length(mm)
AQ06039	1.0mm	.25"	6"
AQ08050	1.00mm	.50"	8"
AQ18025	1.00mm	.25"	18"
AQ06062	1.58mm	.50"	6"
AQ18062	1.58mm	.50"	18"
AQ08070	1.78mm	.50"	8"
AQ18070	1.78mm	.50"	18"
AQ24018	1.78mm	.50"	24"
AQ06079	2.00mm	.50"	6"
AQ08079	2.00mm	.75"	8"
AQ12079	2.00mm	.75"	12"
AQ24080	2.03mm	.1"	24"
AQ08087	2.20mm	.50"	8"
AQ18087	2.20mm	.50"	18"
AQ08092	2.34mm	.50"	8"
AQ24098	2.50mm	.50"	24"
AQ08105	2.67mm	.1"	8"
AQ18105	2.67mm	.1"	18"
AQ08118	3.00mm	.150"	8"
AQ12118	3.00mm	.275"	12"



CHANNEL CLEANING BRUSH--FLEXIBLE ENDOSCOPE BRUSH

Highly efficient cleaning,
safeguarding health
Meets international medical
industry standards



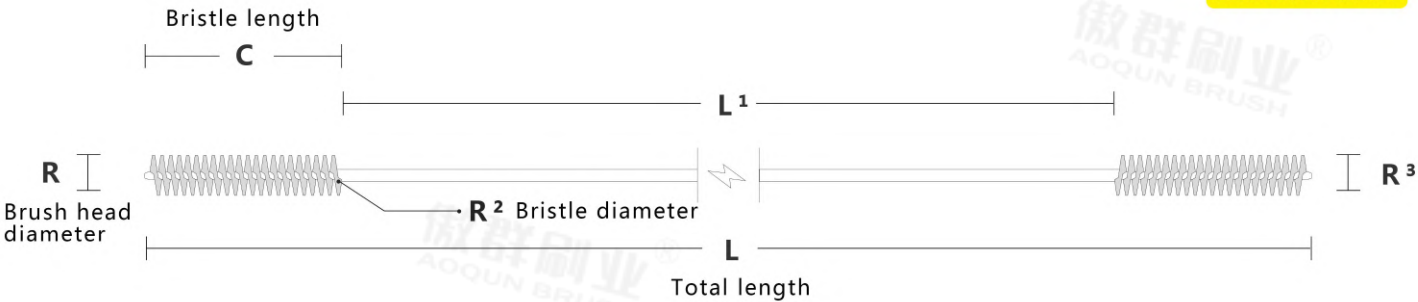
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CHANNEL CLEANING BRUSH--FLEXIBLE ENDOSCOPE BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



Model	Brush head Diameter (mm)	Bristle Length (mm)	Total Length (mm)	Applicable Channel Width Ø (mm)	Color	Description
AQCCB01	2.0	12	1000	1.2-1.5	Yellow	Double-headed
AQCCB02	2.5	14	2300	1.4-2.0	Yellow	Single head
AQCCB03	2.5	15	2300	1.2-1.8	Red	Double-headed
AQCCB04	3.0	12	1000	2.0-2.2	White	Double-headed
AQCCB05	3.0	20	2300	2.0-2.8	Blue	Double-headed
AQCCB06	5.0	20	2300	2.8-4.2	Red	Double-headed
AQCCB07	6.0	20	2300	2.8-4.5	Green	Double-headed
AQCCB08	4-6	24	2300	2.8-4.5	Yellow	Double-headed
AQCCB09	3-5	15	2300	2.8-4.5	Green	With a conical head
	5.5	23.5				Double heads, with valve/channel cleaning brushes
	10.0	30.0				



CHANNEL CLEANING BRUSH--VALVE BRUSH

Highly efficient cleaning,
safeguarding health
Meets international medical
industry standards



ZL202210574951.4

Diameter: 5.0-12.0mm
The bristle length: 15 - 40
The total length i: 50 -155mm
Material: Nylon/Nylon is antibacterial

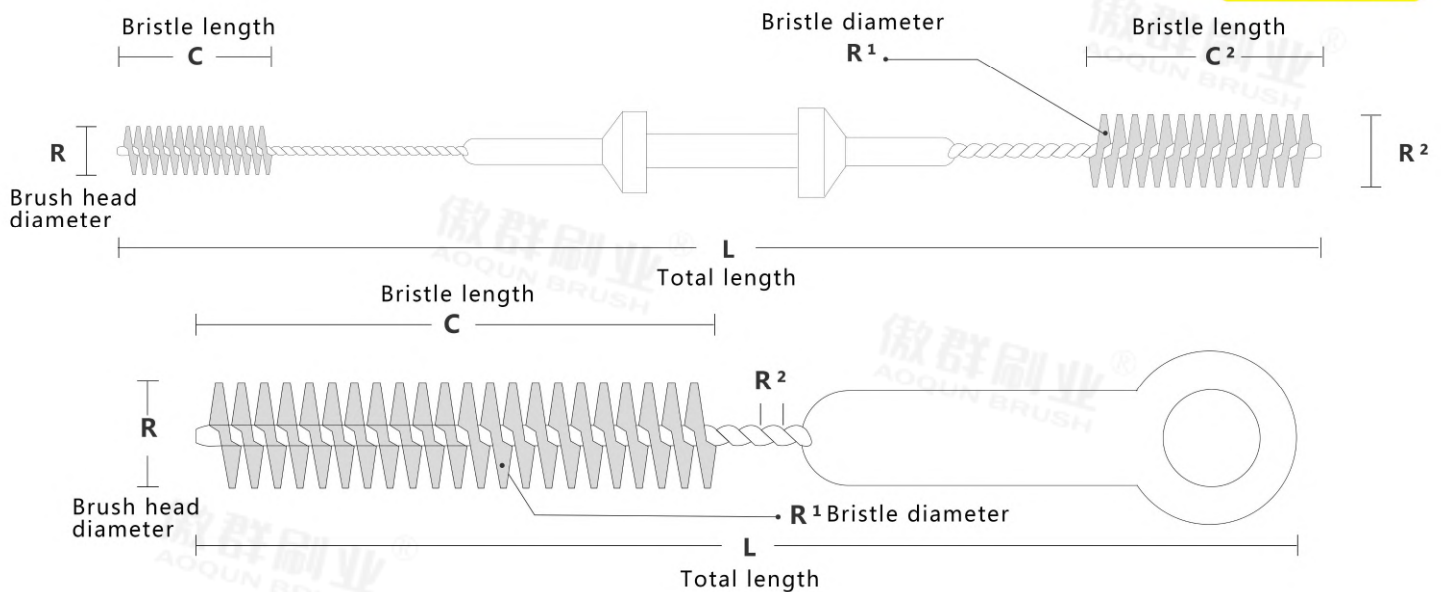


CHANNEL CLEANING BRUSH--VALVE BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



Name	Brush Head Diameter (mm)	Bristle Length (mm)	Total Length (mm)
Short-handled single-head cleaning brush	11	40	90
Double-headed cleaning brush A	5&10	20&35	155
Double-headed cleaning brush B	6&13	60	254

3.0 Hot melt shrinkage technology ensures that the brush head does not fall off, making cleaning safer. The clockwork chamfering treatment is smooth and seamless, which can better protect the instrument.

360° spiral cleaning, closely adhering to the pipe wall, with excellent cleaning effect.

The materials comply with national or industry standards. The product has passed over 30 EU standards such as RoHS and SVHC, and there are functional products that meet the requirements of the US FDA and Japan's antibacterial standards.

Aoqun has an annual production capacity of over 200,000,000 pieces and is popular in more than 50 countries and regions including Europe and America.

We have long-term cooperation with many well-known enterprises in the medical industry, offering a complete range of products and diverse styles. Offer flexible customization to adapt to various endoscopes and channels.



GENERAL INSTRUMENT CLEANING BRUSH - DISPOSABLE BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4

Single-Use Instrument Tube Brushes

These brushes facilitate efficient cleaning of internal lumens and channels across various dimensions. Featuring nylon bristle heads connected to stainless steel wires and mounted on universal POM (polyoxymethylene) handles, the design ensures effective debris removal without damaging instruments.



	Model	Brush Head Diameter(mm)	Bristle Length(mm)	Total Length(mm)
A	AQITB2 - 30 - 2	2.0mm	16mm	300mm
	AQITB2 - 60 - 2	2.0mm	16mm	600mm
B	AQ055 - 1824 - 50	3.0mm	27mm	600mm
C	AQITB2 - 30 - 4	4.0mm	27mm	300mm
	AQITB2 - 60 - 4	4.0mm	27mm	600mm
D	AQSULO5 - 50	5.5mm	50mm	600mm
E	AQITB2 - 30 - 6	6.2mm	50mm	350mm
	AQITB2 - 60 - 6	6.2mm	50mm	650mm
F	AQSULO7 - 50	8.0mm	50mm	600mm
G	AQITB - 60 - 9	11.0mm	50mm	600mm
H	AQSU12 - 50	13.0mm	50mm	600mm



GENERAL INSTRUMENT CLEANING BRUSH - SURGICAL INSTRUMENT BRUSH

Efficient Cleaning, Health
Protection – Compliant with
International Medical Standards



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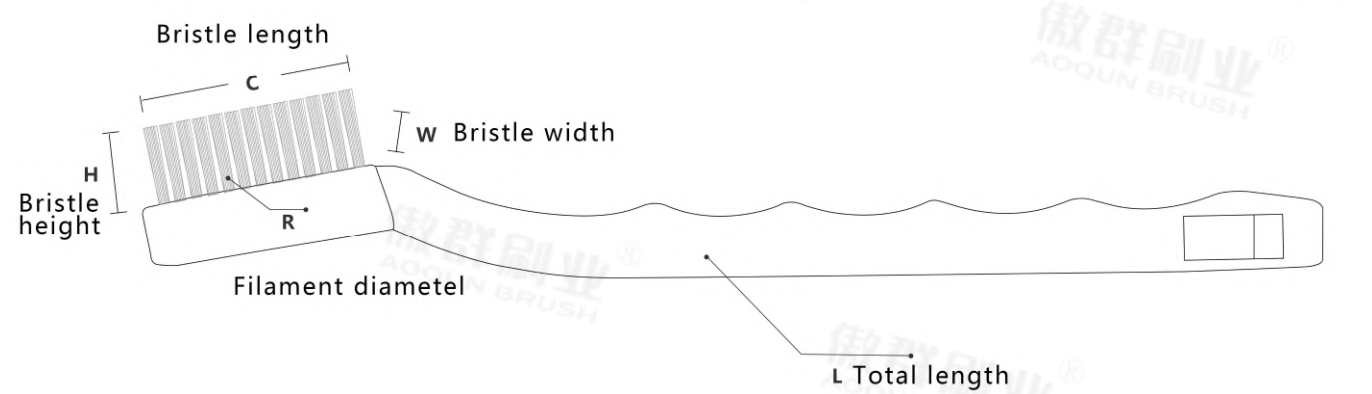


GENERAL INSTRUMENT CLEANING BRUSH
- SURGICAL INSTRUMENT BRUSH

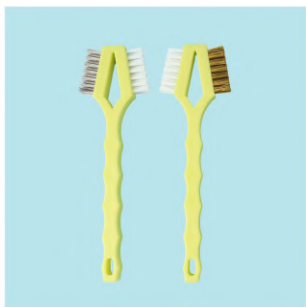
PRODUCT SPECIFICATION



ZL202210574951.4



Bristle Length(mm)	Bristle Height(mm)	Filament Diametel(mm)	Aperture	Bristle Material
10-200mm	10-50mm	0.15-0.5mm	φ2~φ7	PA、PP、PE、PET、 Animal hair, abrasives, silicon carbide



AQICB001



AQICB002



AQICB003



AQICB004

Model	Name	Total Length(mm)	Material
AQICB001	Toothbrushes	180mm	Nylon/stainless steel/brass
AQICB002	Double-headed toothpaste-type brush	180mm	Nylon/stainless steel/brass
AQICB003	Toothbrushes	180mm	Nylon/stainless steel
AQICB008	External hard bristle strength brush	175mm	Nylon/stainless steel/brass



GENERAL INSTRUMENT CLEANING BRUSH
- SURGICAL INSTRUMENT BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



Bristle density
The common proportion on the market is 75% to 80% of the bottom hole area
The bristle density of our company's bristle brush accounts for no less than 95% of the bottom hole area

Tensile force of the bristle bundle of a bristle brush
The standard tensile force available on the market is 20N to 30N
The tensile force of the brush filament bundle of our company's products is $\geq 50N$

Resistant to 100°C steam sterilization for 20 minutes with less than 5% shrinkage rate. Features single-hole pull strength ≥ 2.5 kg, ensuring no bristle loss while effortlessly removing stubborn stains. Utilizing 61-hole high-density bristle implantation technology, achieving 30% higher bristle volume. Antibacterial efficacy exceeds 1.5 times the ISO 22196 standard for antibacterial activity, effectively inhibiting bacterial growth. Available in nylon, PBT, brass, or stainless steel materials to meet general surgical instrument cleaning requirements. Ergonomically designed handles with support for custom shapes and printing based on provided drawings.

Bristle Length(mm)	Bristle Height(mm)	Filament Diametel(mm)	Aperture	Brush Filament Material
10-200mm	10-50mm	0.15-0.5mm	$\varphi 2 \sim \varphi 7$	PA, PP, PE, PET Animal hair, abrasives, silicon carbide



GENERAL INSTRUMENT CLEANING BRUSH - SURGICAL INSTRUMENT BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



AQ510C



AQ520



AQICB009



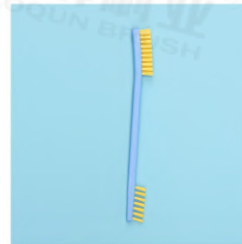
AQICB0011



AQICB0012



AQICB0013



AQICB0014



AQICB0015

Model	Name	Total Length(mm)	Material
AQ510C	External short hard bristle strength brush	22cm	Nylon
AQ520	External medium-hardness brush	22cm	Nylon
AQICB009	Double-headed toothbrush type brush	17.5cm	Nylon
AQICB0011	Medium-hardness brush	17.5cm	Nylon
AQICB0012	Medium-hardness brush	17.5cm	Nylon
AQICB0013	Toothtooth-shaped brush	18cm	Nylon
AQICB0014	Double-headed toothbrush type brush	18cm	Nylon
AQICB0015	Toothtooth-shaped brush	20cm	Nylon



GENERAL INSTRUMENT CLEANING BRUSH
- HAND WASHING BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4

Aoqun offers a wide variety of toothbrushes and block-shaped brushes, which are designed for external cleaning and dirt removal. Material selection includes nylon bristles of different hardness, stainless steel bristles and brass bristles



AQ221SN



AQGDS1



AQGDS2

Bristle Length(mm)	Bristle Height(mm)	Filament Diametel(mm)	Aperture	Brush Filament Material
10-200mm	10-50mm	0.15-0.5mm	φ2~φ7	PA, PP, PE, PET Animal hair, abrasives, silicon carbide

Product advantages

- Ergonomic Handle Design:The handle features deeply textured grip patterns for comfortable, secure, and non-slip handling.
- Efficient Cleaning of Finger and Nail Crevices:Specially designed to access hard-to-reach areas between fingers and under nails, effectively removing debris and bacteria.
- Single-Use or Reusable Options:Suitable for hygienic single-use applications or can be sterilized in an autoclave for repeated use, supporting cost efficiency and environmental sustainability.
- Resistant to High-Temperature Sterilization:Withstands high-pressure steam sterilization at 130°C without deformation, ensuring long-term durability.
- Premium Imported Palm Fiber Bristles:Crafted with imported palm fibers and precision-planted using advanced machinery for enhanced durability and superior cleaning performance.



GENERAL INSTRUMENT CLEANING BRUSH - REAMER BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



Name	Brush Head Diameter(mm)	Bristle Length(mm)	Total Length(mm)
Double-Headed Acetabular Reamer Brush	8/45	30/50	200

PRODUCT ADVANTAGES

This brush enables 360° spiral cleaning to effectively remove debris from acetabular reamers. Its antibacterial performance exceeds 1.5 times the ISO 22196 standard for antimicrobial activity, effectively inhibiting bacterial growth. The 3.0 hot-melt shrinkage technology ensures the brush head remains securely bonded, enhancing operational safety. All materials comply with national and industry standards, and the product meets over 30 EU regulations including RoHS and SVHC, with functional variants certified for U.S. FDA and Japanese antibacterial standards.

Aoqun maintains an annual production capacity of over 200 million units and exports to more than 50 countries and regions across Europe, America, and beyond. We have established long-term partnerships with multiple renowned medical companies, offering a comprehensive range of models and specifications to meet diverse needs.

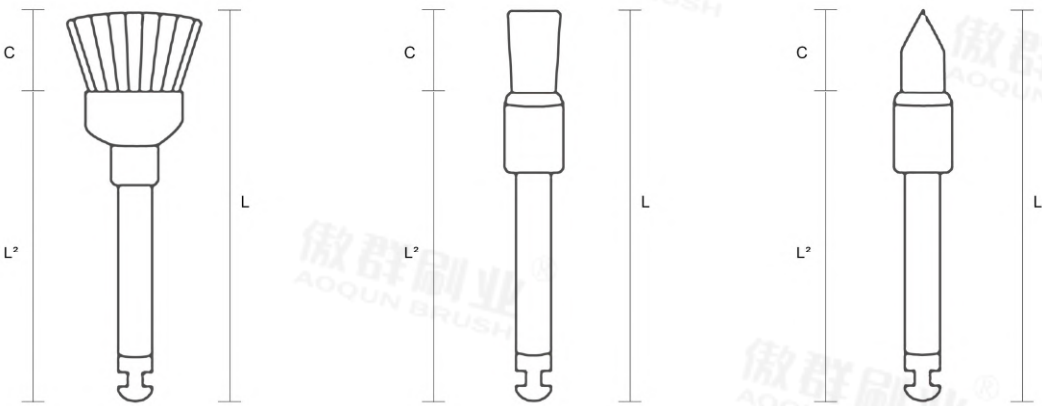


DENTAL POLISHING BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



Name	Bristle Length(mm)	Handle Length(mm)	Total Length(mm)
Dental polishing brush A	55	180	235
Dental polishing brush B	55	180	235
Dental polishing brush C	70	210	280

PRODUCT ADVANTAGES

The brush filaments contain thousands of polishing particles that efficiently polish tooth surfaces, effortlessly achieve high gloss, and restore luminosity to dental restorations. Featuring high flexibility, the brush head bends easily to access hard-to-reach areas such as occlusal surfaces and interproximal spaces, ensuring no area is left unpolished. Suitable for various restoration materials including resin, ceramic, metal, and temporary restorations, this versatile brush simplifies clinical procedures. The product complies with U.S. FDA, EU CE, and ISO 13485 international medical system certifications, guaranteeing safety and reliability for confident use. Manufactured with dental-grade composite materials, the brush demonstrates exceptional durability, withstands high-temperature sterilization, offers an extended service life, and delivers outstanding cost-effectiveness.



CERVICAL BRUSH

PRODUCT SPECIFICATION



ZL202210574951.4



Name	Bristle Length(mm)	Handle Length(mm)	Material
宫颈刷A	25	200	尼龙/硅胶/聚酯纤维
宫颈刷B	25	200	尼龙/硅胶/聚酯纤维
宫颈刷C	20	170	尼龙

PRODUCT ADVANTAGES

The brush head is designed to efficiently collect cells from three critical areas—the exocervix, endocervix, and transformation zone—simultaneously. Utilizing hydrophobic bristle technology, it maximizes cell transfer to the sample vial, significantly reducing unsatisfactory smears and enhancing detection accuracy.

The procedure offers a comfortable experience for patients—painless and without bleeding—thereby minimizing both psychological and physical discomfort. The product holds over 30 certifications, including U.S. FDA registration/testing and EU CE marking, and exhibits antibacterial and high-temperature resistance. All stages—from material selection and production to sterilization—comply with stringent international standards, ensuring safety and reliability.

Its refined design guarantees ease of use and operational precision, improving efficiency for healthcare professionals and optimizing the overall user experience.



CLEANING BRUSHES



Pipe Cleaner



Sponge Swab



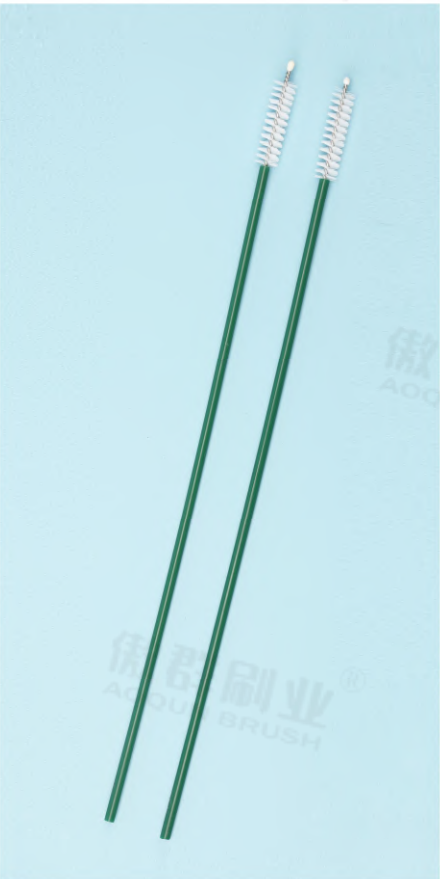
Cervical Brush

产品规格

Name	Brush Head Diameter (mm)	Bristle Length (mm)	Material
Pipe Cleaner	3.2-6.4*	304.8	Customizable
Sponge Swab	4*	152.4	Sponge + plastic pipe (customizable)
Cervical Brush	4-6*	150	Nylon /PP/PBT/PET, rod PP (customizable)



CLEANING BRUSHES



Instrument Cleaning Brush



Bone Reamer Brush



External Precision Brush

产品规格

Name	Brush Head Diameter(mm)	Total Length(mm)	Material
Instrument Cleaning Brush	0.8-80	20-210	Nylon/Nylon antibacterial
Bone Reamer Brush	0.8-80	20-210	Nylon/Nylon antibacterial
External Precision Brush		160-210	Nylon



EMPLOYEE CARE



Work with Passion, Live with Joy.
Energy for Renewal, Brushing the Future.



SOCIAL RESPONSIBILITY



Mid-Autumn Festival Charity Drive: Sharing Warmth, Spreading Love



"Guangzhou 'Love Woods' Afforestation Initiative" Over 5,000 Trees Planted Citywide



PLATFORMS FOR PEOPLE, VALUE FOR CLIENTS, IMPACT FOR SOCIETY

The charity Walk event has been held for 12 consecutive years. Care for special and disadvantaged groups and convey warmth.



Charitable donations show care for the elderly and children

AOQUN BRUSH[®]

GLOBAL LEADER BRUSH PRODUCT SOLUTION PROVIDER

Guangzhou AOQUN New Materials Co., Ltd.

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