

The Brush Expert 2020 SHOW NEWS

# SHOW NEWS

# BRUSH expert

The ULTIMATE industry reference



The Brush Expert 2020 SHOW NEWS



High-Quality Filaments  
Engineered in Germany

PERLON®

The Filament Company

Sustainability  
has a name

GREEN LINE

**Hahl Range – Green Line**  
Brush & Abrasive Filaments

**Pedex Range – Green Line**  
Dental & Personal Care Filaments

[www.perlon.com](http://www.perlon.com)



# Perlon® - The Filament Company

**H**as been the name of the group formed following the fusion of Perlon Nextrusion and Hahl-Pedex since 2016 and incorporates 100 years of filament manufacturing experience. Our vast technical expertise is strongly influenced by the core competences of each of our individual sites. This combined know-how has led to the development of a unique portfolio, out of which a powerful company in the position to supply customers the world over with innovative high-tech filaments has grown.

Perlon® understands the need for sustainability in the future and is working on the development of filaments made from bio-based, biodegradable as well as from recycled resins. All these products make up our new product family, **Perlon® Green Line**. You are invited to contact us regarding further information on this range find out what else we have to offer.

Our **Hahl Range**, a name synonymous with the brush industry for almost a century, comprises the world's broadest range of synthetic brush filaments (SBF) and abrasive filaments (ABR), made from the highest quality polymers and other component raw materials.

Our standard stock range of almost 200 products, located in our fully automated warehouse in Munderkingen, Germany has long since been a stable source of filaments for the European brush industry. A similar stock programme is also available from our US site in Lexington, South Carolina and enables all customers to source a wide variety of products in quick time and in any quantity. Our diameter range runs from 0,075mm (.003") – 3,50mm (.138").

## Hahl



### Synthetic Brush Filaments

Our SBF range is used in the manufacture of all kinds of brushes and brushing tools, used in industry and in the home.

Alongside well established polyamides (PA 6, PA 6.6, PA 6.10 and PA 6.12), polyesters (PBT and PET) and polyolefines (PP and LDPE), we extrude high-tech polymers for demanding applications requiring increased heat resistance (HT150 Green Line, Pekalon II, PEEK), flame retardancy (UL94V0 conforming PA6) and electrostatic resistance (PA6 conductive and anti static).

Making its Interbrush debut this year is our new range of natural hair replacement materials,

## PERLON®

The Filament Company

BioniFil®. Constructed using custom technology and with special additives to mimic the multiple advantageous properties of animal hair, both BioniFil® H, a replacement for horsehair and BioniFil® P, an alternative to natural boar bristle, offer manufacturers consistent quality, clean processing and good availability. This range is also food approved and vegan.

Our commitment to sustainability has led to the development of a brand new 100% bio-based filament, PA Green Line. Made from raw materials manufactured from the castor oil plant, this material has excellent bend recovery and wear resistant characteristics.

### Abrasive Filaments

Used for the manufacture of brush tools for deburring, polishing, sanding and cleaning of almost all surface materials, our in-house developed brands Hahlbrasif, Abralon®, Abrafil®, Abrafil®NG and high temperature resistant AbraMaXX® stand out through their consistent diameter control, even grit distribution and grit load and obviously through their abrasive properties. We use only the highest quality polymers and offer grit sizes from 36 – 3500 in SiC, AO, Ceramic and DM.

Our Hahl Range is complimented by our range of multifilaments, used predominantly for the manufacture of roller brushes. MultiBil®, incorporating our alkali resistant Bilon® technology, and Multibrasif® offer customers higher cleaning/grinding performance, better resistance to breakage and longer lifetime in this specialist field.

Our experienced teams at each location offer technical support and advice on the best products to suit your application for industrial, food hygiene and household brush manufacture.

## Pedex



### Dental Care and Personal Care Filaments

For more than 30 years, our **Pedex Range** has been a driving force in the market for innovative toothbrush filaments.

From very early on, we have led the way in developing filaments based on polyamides, derived from natural resources like the castor oil plant to address the growing market need for sustainable products.

These filaments are marketed under the trademark of Medex®S Green Line.

Base polymers used to produce these filaments are PA 10.10, PA 4.10 and PA 11, which are all FDA approved and therefore unrestricted in their use for dental or personal care applications.

We have also extended the sustainability concept to encompass other functional filaments from our well-known innovative product range.



Filament classics from Perlon® such as Spiral filaments, Whitening filaments, Trilobal filaments and Texturized filaments are also now available based on sustainable Medex®S Green Line polymer technology.

For the personal care market, we offer a wide range of special filaments for decorative cosmetic applications – such as mascara brushes, nail polish brushes and applicators.

In addition to this, ultrafine filaments down to 2 mil diameter can be manufactured for the production of facial- and body brushes.

For special applications, we offer a variety of filaments based on raw materials with different properties – depending on our customers' requirements.

In addition to the use of Polyamide 6.12, Polyester PBT, Polyamide 6.10 and TPEE, we have developed a range of eco-friendly materials, incorporating a variety of sustainable PA 10.10, PA 4.10 and PA 11 based filaments.

Different shapes, for example trilobal, square and rectangular can be produced as mono- or multiple component filaments. Stain Devil® – our three-component filament – is a perfect example of our R&D calibre.

The use of fillers, active ingredients and foaming agents, which have an impact on the properties of the finished product, give consumers the opportunity to choose between a volumizing or easy-release mascara brush.

**For more information, visit**  
**www.perlon.com**



Welcome to the 2020 Show News  
- Digital Version!



The ULTIMATE industry reference

Dear Brush Experts,

Due to the recent Covid-19 pandemic, Interbrush 2020, as we all know, has been postponed until 2022. With Interbrush being the Olympics of the brush industry, bringing the newest developments and improvements to the world of brush making, we felt that the innovations of our major suppliers and machine makers should not go unannounced. It was therefore, decided that we should go ahead with the plan for our Show News (which would ordinarily been distributed to each visitor to Interbrush) but in digital form, and we are pleased to say that the overwhelming majority of our advertisers were keen to participate.

Despite the obvious disappointment of the postponement of this important brush industry calendar date, we are nonetheless thankful to hear encouraging reports from brush makers and suppliers across the world who continue to provide essential services in this time of crisis and have adapted their businesses in response to the current global need. We have full confidence in the resilience of brush manufacturing and look forward to working in support of our worldwide brush industry colleagues as we recover from this international disaster.

Links have been made from each advertisement and news article in our Show News to enable you to make immediate contact with the right person with which to discuss the featured products.

We are pleased to bring a little bit of the "Interbrush spirit" to your desk and we hope you like it.

Our warm regards for a healthy and successful back-to-work process.

The Brush Expert team



EDITORIAL CONTENTS		ADVERT CONTENTS	
Hahl-Perlon	3	Zahoransky	FC
Brushexpert Welcome	4	Hahl Perlon	IFC
Brushexpert a bit about us	5	Ebser	4
Zahoransky	6	FASS	8
Zahoransky	7	Cala Brush	9
Fass	8	Woehler	11
Cala Brush	9	Berkenhoff	13
Woehler	10	Bizzotto	17
Boucherie Borghi Group	12	Yangzhou Jingdu	19
Berkenhoff	13	Schuhmann	21
Dupont	14/15/16	Waffenschmidt	22
Yangzhou Jingdu	18	Paggin	23
Bizzotto	20	SOVB	23
Waffenschmidt	22	Yongli	24
Paggin	23	GDF	25
SOVB	23	Marco Kracht	25
Yongli	24	FEIBP	26
GDF	25	Roth	27
Marco Kracht	25	ABMA	28
Roth Composite Machinery	27	Brush Expert	IBC
		Boucherie Borghi Group	BC



100 years EBSER, life is full of surprises.

At EBSER, we love these exciting, unpredictable, spectacular facets of life. That is why we have been developing and producing machines for the brush industry in Todtnau / Germany since 1920. Machines with trendsetting technologies, intelligent solutions and outstanding quality. In 1920, Gottlieb Ebser started building hand tufting machines for the brush industry in Todtnau. Over the decades, the program has been steadily expanded. Semi-automatic and later fully automatic drilling and tufting machines as well as trimming machines were developed and added.



- Trimming- / cleaning machines
- Stamping- / labelling machine
- Drilling and tufting machines
- Special machines
- EBSER second-hand machines

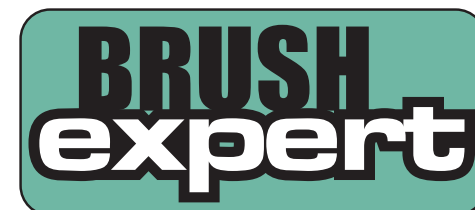


See you at INTERBRUSH 2022

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# www.brushexpert.com – The Ultimate Industry Reference



The **ULTIMATE** industry reference

In 2020 **www.brushexpert.com** is celebrating its 20th Anniversary. The original concept for the site was, and still is, to provide an available-to-all directory, news service and general information portal to meet the industry's growing need for a flexible online, one-stop platform.

## The Brush Directory is the place to be seen!

Receiving the most visitors of all pages of **www.brushexpert.com**, the Brush Directory offers:

- Volume buyers, industrial users, distributors and companies needing custom-made items a direct route to manufacturers of all types of Finished Brushes on a global basis.
- Brush manufacturers across all industries a means of sourcing suppliers of the different Component Parts and raw materials required to enable them to create the best possible brush products
- All manufacturers, whether of finished brushes or their numerous components, the very best in Machinery technology from international companies with which to realise all of their projects.
- Access to the important Associations in many countries that support the efforts of their members

## ① Stay current with the latest News!

Our popular online News pages and twice-monthly Newsletter offer the visitors the very latest Product, Company and Industry news from the around the globe. Sign up to receive the Newsletter and keep up-to-date with the latest product innovations, company developments and industry events. **www.brushexpert.com/news**

## Information at your fingertips!

With a worldwide Shows & Events calendar, details of industry Associations and a continuously updated Trade Statistics database and more, **www.brushexpert.com** really is your go-to planning resource for the brush industry

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Subscribe today to elevate your web presence for just £170.00 GBP for a full year of enhanced benefits.

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② **Networking** - Enhanced Company Profile page example showing web/email/social media links, full description, accreditations, logo and image gallery plus links to your major personnel and worldwide agents.

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**Promotion** - Unlimited editorial space in our News pages, twice-monthly Newsletter and social media channels with each article linked to your email, website and enhanced company page

## ③ Advertise within the many pages of www.brushexpert.com

**www.brushexpert.com** receives thousands of visitors from all over the world. This necessary resource is an ideal networking tool and an important promotional opportunity.

Choose from a variety of options to meet your specific budget requirements including online animated banners placed throughout the site, an advertisement in your company directory page and pop-up adverts in the Brush Directory in your product selection.

Show your links from the Video Gallery or Product Portfolio pages.

Advertise excess stock, used machinery or search for agents/staff in the Marketplace.

Use our e-Blast service to bring maximum focus to your key promotions, product launches or company changes in a dedicated mailing package.

Add your advertising banner and editorial (to be shown as Main Story) to one of our Newsletters for greatest impact.



Left: Josie Wadd, Director, Brush Expert Ltd

## Contact us

Whether you wish to discuss subscriptions, sharing your news item

or annual advertising plans, Contact Us today. We are here to answer your questions and assure you of a very quick reply.

Download the Media Pack today and to find out how you can take advantage of the wide, global reach this popular and well-respected platform provides.

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# ZAHORANSKY - new machines, systems and technologies

## New products without corners and edges

**Z**AHORANSKY shows its capacity as a leading full-service provider and partner to the brush industry with a variety of new machines, systems, and technologies. The focal point is the debut of the revolutionary CUBE, a completely new design of machine for the production of anchor-tufted toothbrushes. The three-part modular structure, consisting of a base unit, supply unit, and cover unit, is clear to see from the very first moment you lay eyes on it. When used in conjunction with the coordinated, newly designed ZMI 4.0 machine control system, the CUBE can really show off its technical strengths while setting new standards, enabling both parallel and serial production orders to be processed without the need for changes to the mechanics. By simply loading an appropriate program, several toothbrush models with different designs can all be produced on the same machine – and all without interruptions: when using a CUBE base unit, the output is 40 brushes per minute, increasing by another 40 if you connect a further CUBE base unit, and so on. The advantages of ZMI 4.0, such as a smoother activation of machine components, also increase the performance of the Z.SAILFIN and Z.LYNX 3 models: Z.SAILFIN's output increases by 12 percent, meaning it can produce 95 brushes per minute instead of just 85 per minute. The completely redeveloped Z.LYNX 3's output also almost doubled (depending on the brush model) thanks to ZMI 4.0 – from four to up to 7.5 brushes per minute (an increase of 85 percent). Also new: the Z.RAY, designed for the production of wooden toothbrushes, and the revised Z.PARD, which now features improved ergonomics.

Robert Dous, Head of Sales/Marketing, is looking forward to seeing the reactions of the customers: "It gives us great pleasure to finally be able to show our new machines, systems, and technologies to both the market and our customers. Above all, the modular structure of the CUBE clearly shows our approach to toothbrush production has been logical and well thought out, and that we have been able to implement our ideas on a technical level. In short, all of our new products offer our customers more space in every respect – from the lower space requirement placed on the production hall to the greater potential when it comes to implementing the customer's design ideas, right through to more flexible scaling of the number of units."

### CUBE: the utmost flexibility in the smallest of spaces

The modular basic design of the CUBE allows for toothbrush production with the utmost flexibility and efficiency in the smallest of spaces: in line with the versatile CUBE

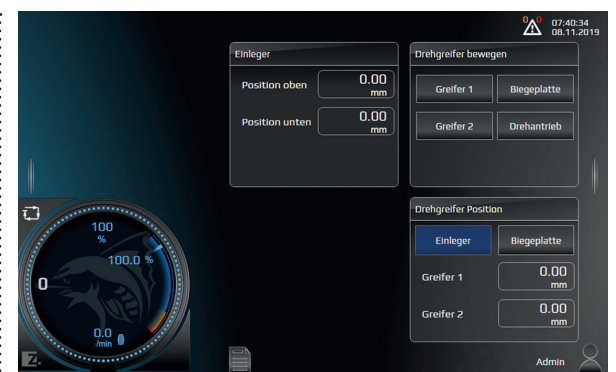


Above: Z.LYNX 3

exhibition system, an equally novel, flexible feeding system for handles made of bulk material will also be showcased. Like the CUBE itself, this feeding units can be scaled accordingly in terms of the number of handles required. Optical camera recognition of the handle shapes ensures easy conversion to other models, which in turn guarantees you flexibility. The handles are inserted via the CUBE Supply Unit into a Carrier Transport System (CTS).

Via the CTS, the handles run through CUBE base units to the individual processing stations like tufting, trimming and final endrounding. There is also the option of integrating additional devices, such as imprinting devices or cameras for quality assurance. The finished toothbrushes are then removed from the CUBE by a robot and placed in the correct alignment on a transport belt. At the end of the belt, the brushes are deposited in a tray for further/final processing in a packaging system such as the Z.PACK.

Other base units can easily be integrated into an existing CUBE in order to increase the volume of brushes being produced or to adapt to new market requirements being placed on toothbrushes. When integrating these new base units, the order in which the tufting and finishing units are placed can be flexibly adjusted. When it comes to complex trimming topographies regarding the toothbrushes



Above: ZMI 4.0: the smart machine controller

(trimming height/depth), for example, the low filaments can be tufted and trimmed first before the higher ones, without the need for complex spreading processes that would otherwise be required. The CUBE is particularly flexible when it comes to processing: for large quantities, a "parallel mode" is available, with all CUBES producing the same brush model. For models with large/small holes and deep/high bundles, serial operation can be activated – simply by importing the respective program into ZMI 4.0. In addition to the performance values of 40 brushes per minute/base unit, the tufting speed could be increased from 1,000 to 1,200 tuft/s minute. And it's not just its inner values that make the CUBE a compelling product. ZAHORANSKY has come up with





something special for the customer regarding delivery and installation: as the electronics and control cabinets have been moved upwards, the machine takes up a lot less floor space. Thanks to this development, each CUBE can be delivered to the customer ready for operation in a container – longer on-site assembly times become a thing of the past, the machine can start being productive more quickly, and less space is taken up in the production hall. In addition, the front, which is clear from the operator's point of view, increases operational efficiency and provides greater accessibility for maintenance work.

## ZMI 4.0: the smart machine controller

The completely re-programmed Zahoransky Machine Intelligence (ZMI) 4.0 is now even smarter and geared towards the needs of the worker: with intuitive touch controls, complete with new icons and wizards, it can be used to operate machines fitted with the system (currently CUBE, Z.SAILFIN and Z.LYNX 3) without much training; this is because the programming is based on previously defined modules for specific mechanical movement sequences. By way of example, test users were able to program trimming profiles five to ten minutes faster and thus start the machine five to ten minutes earlier. As part of this process, ZMI 4.0 takes the subsequent operational sequences that should logically follow into account – this helps to minimize operator errors. Should the operator have any questions or be uncertain of anything during operation, the "Help me" wizards are on hand to suggest suitable solutions. The integrated service mode also simplifies international support because it breaks down language barriers, with a unique ID number being present in every field (such as the filament feed settings) on the display. In case of enquiries, the operator only needs to mention this number. This makes it quicker and easier to isolate an error in the event that support is required. In addition to the new operating concept, ZMI 4.0 has also been able to make quicker and more precise actuation times for the servo drives a reality. This is enabling machines such as the Z.SAILFIN to work more quickly and more smoothly, which is reflected in a higher output: instead of the previous 85 brushes, 95 can now be produced per minute. The control center also benefits from greater transparency: the production figures are visualized and can be tracked over certain periods.

## Z.LYNX 3: redeveloped for greater performance

The Z.LYNX 3, designed for the production of twisted-in-wire brushes, was redeveloped from the ground up. The focus of the revised machine concept was the switch to parallel production. Previously, the production process

involved completely finishing one brush before moving on to the next one. Now the production process involves manufacturing half a brush at one station, while further/final processing takes place at the next station. Depending on the brush model, this can increase output by up to 85 percent – from four to up to 7.5 brushes per minute. This increase is facilitated in no small part by the aforementioned smoother motor control afforded by ZMI 4.0. Despite the increased performance data, 1 to 4 mm thick stick wire are still able to be processed, only now the process is much faster.

## Z.RAY: manufacture wooden toothbrushes precisely and hygienically

Another new product is the Z.RAY, which can be used to produce trendy wooden toothbrushes. To ensure the utmost standards of hygiene, the

holes in the handles are drilled in a separate unit and within a protective screen at a rate of up to 800 holes per minute.

## Z.PARD: new design improves workplace ergonomics and processes

The new protective housing immediately catches the eye, but it's not just there to improve the machine's appearance: based on feedback received from numerous customers, the swivel arm with the screen is now attached at the top instead. This leaves more floor space for pallets with filaments or brush baskets – ideal in cramped production environments. In addition, the housing was set slightly lower in the insertion area. The worker can now step closer to the machine when loading or unloading material, which helps to prevent fatigue and incorrect posture. A new LED bar with traffic light function also ensures better visualization of the current operating status. In addition, new handling handover to a Z.RP machine for finishing the brooms will be on display at the trade fair. This handover automates the manual tufting machine's entire process. The worker removes the finished brushes from the Z.PARD, places them on the belt magazine, and a cobot (collaborative robot) takes care of removing them and placing them in boxes once the rounding process has taken place. The robot will detect when a box is full. It will then switch off the machine, pull the full box towards the worker, and move an empty one into the vacated filling area. The worker can then place the brushes in storage packaging. Without having to bend down, as the boxes are positioned at waist height.

**More information and further innovations are available directly from ZAHORANSKY, please get in touch. [info@zahoransky.com](mailto:info@zahoransky.com)**



Above: Z.SAILFIN



Above: Z.PARD



# FASS: Tailor-Made Painted Metal Handles

More than 50 years of quality and innovation in cleaning items: this is the DNA of this Italian family company.

**F**ASS is one of the most integrated and well-known companies in our market: all the products, starting from brooms, brushes and mop heads, passing through all the plastic components up to the painted metal handles are totally Made-In-FASS.

Since the last Interbrush fair, the FASS R&D department identified some new and strategic items and concepts to develop before May 2020. These strategic products and ideas come from a deep reflection on the economical and climatic environment: two elements strictly interconnected that FASS translated in metal handle innovations.

### Actual economic context

There is no doubt that the actual scenario is changing daily and very fast, perhaps more than we are truly able to imagine. On one hand, the political instability of many countries worldwide is generating problems for exports, reducing the opportunities of growth, whilst on the other hand, there is a strong demand for a 'plastic free' world. This is creating a lot of question marks for our category: it means that there is less space for growing internationally and that these kinds of products are, unfortunately, losing space on the supermarket shelves. It is all a matter of savings: cost, plastic and space. It is going to be a hard challenge, but FASS will be more than happy to

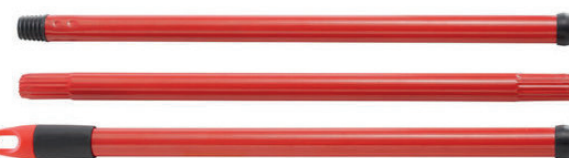
give its answers.

### 100% recycled metal handle: less plastic, more painting.

To address the plastic issues FASS decided to invest time, know-how and experiments towards developing a 100% recycled metal handle. First of all, it is possible, thanks to the painting technology that allows FASS to avoid the more common plastic coatings. Recycled powder, with alternative and sustainable material for all the components injected, create together a perfect mix to satisfy all the most recent needs. This special handle is part of the new "Natural Green" line that FASS launched this year.

### Space saving: the telescopic and multi-pieces metal handles era

The best answers possible to the space reduction on the supermarkets shelves for our products are the telescopic and multi-piece metal handles. In the last four years, FASS management decided to invest more in them, creating all the equipment to produce, in the most flexible and customized way possible, these kinds of items. FASS decided to switch from standard production to a tailor-made one, aiming to offer the most complete and high-quality range of handles possible.



### Tailor-made metal handles

This is the most innovative news that FASS will introduce. It is a revolutionary approach, based on flexibility, design and customization. Vertical integration allows FASS to satisfy the most unusual requests, starting from special moulds with 3 different materials, up the special type of coating powder. The management believe that quality, style and differentiation are the only ways to work with different customers without selling the same caps, same colours and of course same look. Their goal is to create the same feeling you have every time you buy something extremely customized: it is completely different relative to all the others – it is simply and exclusively yours.

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HANDLE SPECIALISTS

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# Top Quality Tampico Fiber from Cala Brush Supply



**E**duardo Castillo, known by his friends as EC, Owner and CEO of Cala Brush Supply and Grupo Interoceanico Cala, said that this business started due to his empathy for the farmers that harvested Agave Lechuguilla in the North East of Mexico: the only place in the world where this fibre grows. He explained that, in the beginning, he was moved by their poor circumstances and acted against that by offering better labour conditions to the harvesters in a socially responsible way based upon his knowledge and perfect care of sustainable conditions.

"Cala Brush Supply does not harm any ecosystem when producing its product and offers certification of that," he stated. "In this company, we support the farmers and their families in this semi-desert region to ensure that they live in healthier and improved conditions and are sustained in work throughout the whole year. Therefore, each family, with a steady life, is also in a safer financial position." In fact, he states that the improvements have resulted in a 400% increase in wages in the past 20 years.

Eduardo Castillo instilled much better growing and harvesting techniques, such as resting and rotating the crop in different areas, that ensured the continued and healthier life of the plants, thereby increasing the quality of the harvest. "The concept of a better quality of life, sewn in the harvester's minds, grows to help their customers receive a better product. As is shown in many other tasks in the world, when labour has a more steady financial outcome, it results in a better product, and that is what Cala Brush supplies to its customers: the best quality harvested material with less short fibres, less broken fibres or scrap material and with the best beneficial price in the market. Tests show that there are less than 0.0014 percent of defects in its products and Cala Brush offers a certificate to that effect." He indicated.

Cala Brush Supply covers an area of over 8 million kilometers and is involved with over 5,000 harvesters, offering better control of their growing methods.

"The natural colour of the fibre is creamy white but is often dyed other colours. Tampico fibre has great liquid retention-and-release properties - it

will absorb 65% more water than plastic fillings. It has a unique surface roughness due to crystals of calcium oxalate embedded in the surface. There is no plastic substitute for Tampico fibre," Eduardo assured us.

The fibre is unsurpassed in most general sweeping applications and in all applications requiring liquid retention, scrubbing and surface finishing.

Cala Brush Supply has three points in its company philosophy which are:

## UNDERSTANDING OUR CUSTOMERS

Cala Brush Supply quickly learns from its customers the details and fibre properties needed for their product requirements in order to deliver the best quality natural Tampico Fibre for easy assembly on even the fastest stapling machines

## UNIQUE QUALITY CONTROL

Cala Brush Supply masters the productive capacity by controlling the harvesting and production methods used ensuring the best quality of their fibres and reliability of delivery dates.

## PRODUCT GUARANTEE

Top quality, dust-proof plastic covers are used to protect the fibres and assure the long-lasting condition of the material during storage or humid conditions. This does not diminish the abrasive and absorbent capacity of the fibre. Due to this strict control and high-level support for the workers, the product is rarely low and, therefore, delivery dates are to be relied upon.

Cala Brush supply invites you to be part of the relaxed atmosphere where the staff will help you be in control of your products and avoid the long waiting list as do all their customers in over 42 countries worldwide.

**Contact Eduardo by; Mobile + 52 844 247 2464 or by the details shown below**

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SUPPLYING THE GLOBAL  
BRUSH INDUSTRY WITH  
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# WÖHLER – JOIN THE POSSIBILITIES

**C**ompelling reasons have forced the postponement of the Interbrush. This also means for WÖHLER that meeting with clients and friends in Freiburg will not take place before 2022. For WÖHLER the Interbrush is always a particular opportunity for presenting latest developments. That's why all clients and prospective buyers are now cordially invited to Bad Wünnenberg, where the innovations can be viewed directly on site.

WÖHLER's open stand presentation of outstanding machines for industrial brushmaking already convinced visitors in 2016. This open approach has initiated a radical rethinking in the whole industry over the past years. Future-oriented themes on digital industry make it obvious to all that automation and digitalisation will not stop even at the gates of a highly traditional trade like the brush industry.



The expertise established by WÖHLER in countless successful projects over 87 years is the key to facing a positive and innovative future.

"We are very proud of being a reliable partner for our clients and seeing eye to eye with them. Together we have realised a number of exciting projects in the past and in doing so have built a sound basis for developing modern solutions and machine concepts in the future." General Manager Matthias Peveling stressed, clearly pleased about the great cooperation.

As one of the leading machine builders in the brush sector, WÖHLER is already able to meet many future demands today.

## New user concept for the demands of today's working world

A holistically newly developed user concept, together with state of the art technology, lays the foundation for effective integration of the machines in the entire process chain. From job management up to data collection, WÖHLER machines not only deliver high quality products, but also enhance efficiency by the direct evaluation and transfer of production data back into the clients' systems.

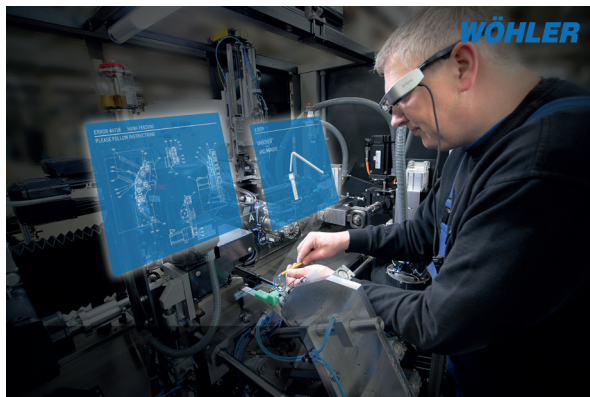
This allows optimal production monitoring and the acceleration of the complete production process through to shipping.

A further future component is modern predictive maintenance, which has a great potential for considerably boosting machine availability.

"With this knowledge we introduce a new era compared to that of conventional reactive

maintenance. Possible malfunctioning can be recognised and averted before it occurs thanks to this method." General Manager (Engineering) Daniel Horenkamp explained.

Even the operator interface has been adapted to the modern working world, now appearing both clearer and better structured. The machine enters a direct interaction with the operator, guiding him more simply and clearly through diverse applications. This effectively minimises the risks of maloperation, as well as cutting training time and downtime. Difficulties in troubleshooting decrease, as does the necessity of service calls.



## A new dimension of service

Dreams come true. WÖHLER's visions in customer service have gone into an implementation strategy, which will considerably further enhance the WÖHLER service already in the coming years. To date, first steps have already been made for making the service both faster and more convenient for the client. Spares and wearing parts can be identified and ordered even faster and easier in the future. A service technician can also give assistance directly online as required.

## Modularity in machine building offers fast solutions and scope for innovation

The modular kit structure of WÖHLER machines

is already well known to many. With this feature WÖHLER not only developed a perfect solution for standard production, but also for allowing innovative new projects to be realised economically. As opposed to classic custom machine building, the basic demands can already be met with the standardised modules. Customer specific requirements, ideas and wishes can be developed and realised on this basis. This saves time, costs and increases flexibility in development.

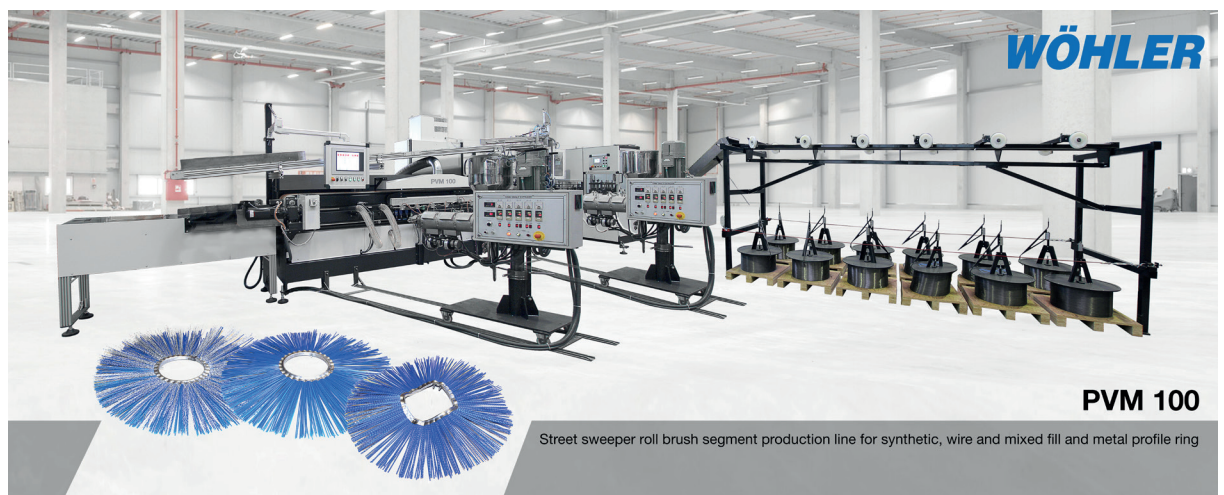
The modular engineering experience, planned for the Interbrush, from the WÖHLER World of strip and power brushes will now be made available to clients and prospective buyers in the form of digital media, for an expressive and persuasive presentation anytime.



## Experience the full WÖHLER portfolio of street sweeper brushmaking machines

The machines for the production of street sweeper brushes can be experienced in a very special manner thanks to virtual reality. These impressive and true-to-detail giants of brushmaking machines are definitely an opportunity not to be missed: Using latest technology WÖHLER is able to make a momentous impression worldwide.

Let yourself be inspired and discover the diversity of possibilities at WÖHLER!



# WÖHLER

**Press contact:**

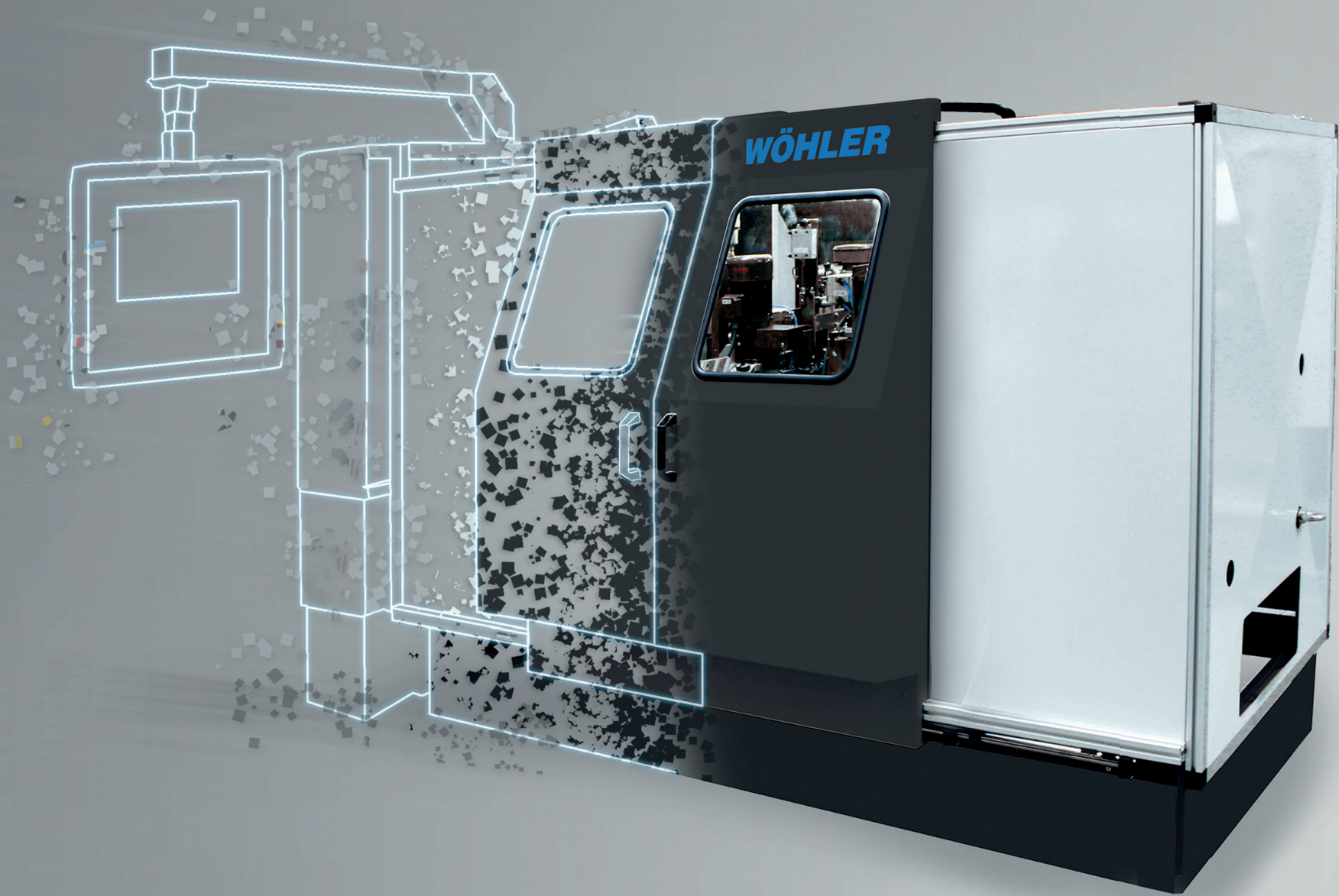
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**Tel.: 0049 2953 73 430**  
**E-Mail: s.glaser@woehler.com**



# WÖHLER

the **World** of **Brush**making **Machines**



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**EXPERIENCE THE FUTURE OF BRUSHMAKING**



# The Boucherie Borghi Group and INNOVATION CLOSE TO YOU



“**E**xhibiting together for the first time as a group was a real challenge. However, the success achieved at Interbrush 2016 is proof of the fact that we made the right decision. Surely, we will repeat this experience! For us, Interbrush is our industry’s most important meeting point.” Bart Boucherie and Paolo Roversi, board members of the Boucherie Borghi Group, stated at the end of the previous Interbrush in 2016.

Interbrush 2016, represented the first edition in which Borghi S.p.A. and Boucherie N.V. participated as a group in a single stand, where the slogan was “**We Are One**”. In the booth, it was apparent to feel the friendly and welcoming atmosphere, together with revolutionary innovations and new developments in terms of technology and machinery, from the household to the technical sectors, and from the oral care to the personal care sectors.

After Interbrush 2016 the key mission of the Boucherie Borghi Group was to reinforce the bonds with all customers, sharing with them the latest state-of-the-art technologies while also involving them in the progress and evolution of the Group. The Boucherie Borghi Group wishes to bring the development of technology and innovation as close as possible to customers.

Since the Boucherie Borghi Group was formed in 2014, the relationship between what was once two companies has progressively evolved. After six years, Boucherie and Borghi know each other better and, every day, they learn how to make their cooperation more efficient. As the Boucherie Borghi Group, they have realized and discovered some of their differences, and they have been able to convert them into complementary expertise. Paolo Roversi commented, “Being different is a good thing because it teaches us different ways of looking at things, so we learn from one another,

growing continuously our approach to the market as well as the technological evolution. We want to provide our combined expertise and technology to benefit our customers”.

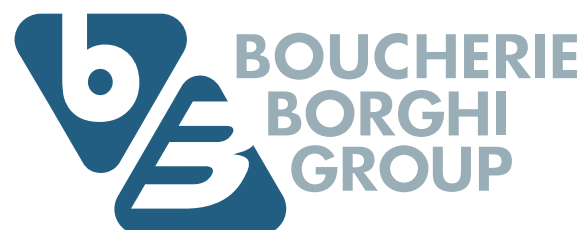
The Boucherie Borghi Group wishes to bring its technological developments and innovation closer to you, our customer, by better involving you. As a Group, Boucherie and Borghi are connected, bringing together the souls of the two individual companies. Innovation and customer service have always been the cornerstones of our Group. You, the customer, are all what our Group is about. We want to listen to you, understand your needs and provide solutions for your manufacturing needs. That is how they want to bring **INNOVATION CLOSE TO YOU**.

As you may already know, the international trade fair Interbrush 2020 has been postponed until May 2022. This decision was not made lightly. However, everybody agreed that the health and safety of visitors, exhibitors and everyone involved takes the utmost priority.

Many innovations of the Boucherie Borghi Group were going to be presented there, processing the raw materials that were generously made available to us. The Boucherie Borghi Group thanks all the co-suppliers for their efforts. Your generosity is tremendously appreciated. These are the companies that supported our effort:



**As soon as the Covid-19 emergency has been overcome, the Boucherie Borghi Group will plan the presentation of the new technologies that would have been exhibited at the Interbrush 2020 fair. Stay tuned, updates will follow on our channels! [www.boucherieborhigroup.com](http://www.boucherieborhigroup.com) THANK YOU ALL! Paolo Roversi & Bart Boucherie Jr.**





# Berkenhoff launches two new anchor wires

‘bercbrush arrow’ & ‘bercbrush octopus’ set new standards in the toothbrush industry

**B**erkenhoff, a leading manufacturer of anchor wires, launched two new products under its bedra brand: the bercbrush arrow & bercbrush octopus. With the design inspired by our natural living world, these new anchor wires offer increased tuft retention and enable a new generation of sustainable toothbrushes made from bamboo and wood. Patents for these world novelties have been applied.

bercbrush arrow is aimed at manufacturers of bamboo and wooden toothbrushes. More and more customers ask for sustainable brushing solutions that reduce the use of fossil raw materials and plastics. As a result, the market for bamboo and wooden toothbrushes is growing. These new materials require special anchor wire constructions to meet the 15N tuft retention required by the DIN standard (DIN EN ISO 20126-2018-05). Berkenhoff has taken up this challenge and developed a new anchor wire especially for bamboo and wooden toothbrushes.

The design for the bercbrush arrow is modeled

## bedra intelligent wires

after the barbs of plants and animals, which make pulling the wire out more difficult. Tests show that the tuft retention of a toothbrush equipped with bercbrush arrow is more than 100% higher than that of commercially available bamboo toothbrushes. Due to the arrow-like shape of the wire, the fibres are smoothly displaced when punched into the bamboo without causing deformation. Due to the relaxation of the bamboo, the filaments are distributed into the barbs, thus increasing the retention of the tufts. This has the following advantage for the processor: The anchors and the filaments are not attacked and remain intact. In addition, the lack of dimensional stability of the bamboo toothbrush body is offset by increased tuft retention.

bercbrush octopus, used for plastic toothbrushes, got its name because of its tentacle structure on the surface, which is similar to that of an octopus. The resulting arrangement of the grooved structure boosts tuft retention by increasing the contact surface between the anchor wire and the toothbrush material. This leads to a reduction in the size of the toothbrush heads along with a lower weight per meter. This results in material cost savings of up to 3% compared to a double-sided triple-grooved wire, and up to 9% savings compared to a single-sided triple-grooved wire. Tests show the tuft retention of bercbrush octopus is up to 20% higher than that of commercially available plastic toothbrushes, without deformation during punching. By further developing existing technologies, the developers at bedra have succeeded in reproducing new structures for anchor wires. The bercbrush octopus is a representative for the various possibilities and the individual adaptation to customer requirements.

# High Tuft Retention?

## bercbrush arrow

The new arrow-like anchor wire from bedra

- › Design inspired by our natural living world
- › Especially for bamboo and wooden toothbrushes
- › Increases the tuft retention by up to 100 %

PATENT PENDING



www.bedra.com

WORLD PREMIERE

Visit us at **Interbrush 2022**

**bedra**  
intelligent wires



# Your Brush Deserves the Best Filaments – DuPont Filaments Continues to Lead the Way in Innovative Solutions



For more than 70 years, DuPont Filaments has been recognized as a leader in innovative synthetic filaments that enable brush manufacturers to address emerging trends and meet evolving consumer expectations. Building on a legacy of innovation, our global team of scientists and development engineers continues to expand the broad range of filaments offerings for premium quality brushes and industrial applications, giving leading global brands and brush manufacturers ever more flexibilities in brush designs.

## Health deserves the best filaments – Toothbrush Filaments.

The most important component of a toothbrush lies in the bristle. With outstanding industry expertise accumulated over the years, coupled with our proven technologies, DuPont Filaments is dedicated to the oral care brush industry with our nylon solutions under the brand names of DuPont™ Tynex® (nylon 612) and DuPont™ Herox® (nylon 610). Leading toothbrush brands and manufacturers are able to produce very high-quality brushes with a balance of consistent quality, wear performance and unmatched productivities in tufting and end-rounding by using DuPont filaments.

As consumer trends in toothbrushes are increasingly focused on the six major areas of 1) Visual Attractiveness, 2) Interdental Cleaning, 3) Plaque Removal, 4) Gum Comfort, 5) Gingival Cleaning and 6) Anti-microbial within the filaments, DuPont Filaments has been working closely with the leading global brands in oral care as well as toothbrush manufacturers by fulfilling these needs with our broad range of innovative products in the portfolio. DuPont™ Tynex® Brilliance Pro filaments, launched in late 2015, are a prime example of DuPont's newest innovation that combines both visual attractiveness and functional benefits. With its unique diamond shape profile and distinguished color effects, it is the ultimate filament for premium toothbrushes. The soft bristle of Tynex® Brilliance Pro, with its outstanding translucency and glistening look brought by a proprietary color recipe, will make any toothbrush an "eye-catcher" on the shelf while retaining the superior cleaning ability for interdental and plaque removal performance.

As Herox® was successfully reintroduced to the toothbrush filament market by DuPont, it



is known as a "green" material, with 67% of its ingredients coming from renewable sourced raw material. Another innovation - DuPont™ Herox® Binchotan filaments was added to the product portfolio in 2015 as DuPont adapted its product strategy to provide tailor-made solutions targeting customer needs and growth in Asia Pacific. Capturing the emerging trend of using charcoal in various dispensary applications especially in Asia, DuPont Filaments brought yet another innovation to the market by combining nylon and binchotan charcoal powder. The binchotan charcoal powder used by DuPont is manufactured from 100% natural wood through a specialized carbonization process

in Japan, where binchotan is originated. The combination of nylon and binchotan, with perceived functional benefits commonly known in Asia and increasingly in other regions, allows toothbrush designers to bring new concepts of toothbrushes to consumers. DuPont™ Herox® Link filaments, another member of the Herox® family and a "new" nylon material using co-extrusion technology, was recently introduced to toothbrush customers who are seeking alternative nylon filament solutions with better cost effectiveness that also retain the good performance needed to better satisfy their markets in need of comparatively softness for toothbrush filaments.



## Beauty deserves the best filaments – Fine Filaments

When it comes to the cosmetics industry, consumer needs are dynamic and ever-changing. There is also an increasing expectation for high performance tools as consumer cosmetics applications are more and more specialized towards professional grades. From powder to eyeliner, mascara to nail polish, as well as facial cleaning brushes, consumers are looking for brushes with high performance in durability, ease of cleaning, soft touch-and-feel, powder pickup / release...etc. Even if different animal hair are still available as options for cosmetic brushes in the market, responsible cosmetic brands are already leading the trend to be “cruelty free” and use only synthetic filaments in their brushes.

DuPont™ Natrafil® filaments, a pioneering filament from DuPont's unique polyester-based material, contain proprietary texturizing additives that create a structured surface that mimics animal hair. Natrafil® filaments offer a synthetic alternative to animal hair in premium cosmetic powder brushes with more consistency in the bristle while maintaining the touch-and-feel of premium animal hair. Studies have shown that brushes made with Natrafil® filaments have equal to superior pickup and release performance versus brushes made with animal hair.

Hygiene in cosmetic products is a serious but often forgotten concern. If you think your makeup brush is bacteria free, you should think again. Infection-causing bacteria can thrive in cosmetic brushes and products that are not adequately cleaned or are used beyond its indicated product lifespan. DuPont is helping to tackle this problem with DuPont™ Tynex® StaClean® fine filaments, launched in 2015. Independent verification by authoritative third-party testing agency has confirmed that Tynex® StaClean® fine filaments are 99% effective in bacteria inhibition. This is due to the silver-oxygen combination in the filaments that inhibits the growth of micro-organisms. The launch of Tynex® StaClean® fine filaments addresses the hygienic concern for cosmetic brushes.

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“

**Natrafil® filaments offer a synthetic alternative to animal hair in premium cosmetic powder brushes with more consistency in the bristle while maintaining the touch-and-feel of premium animal hair.**

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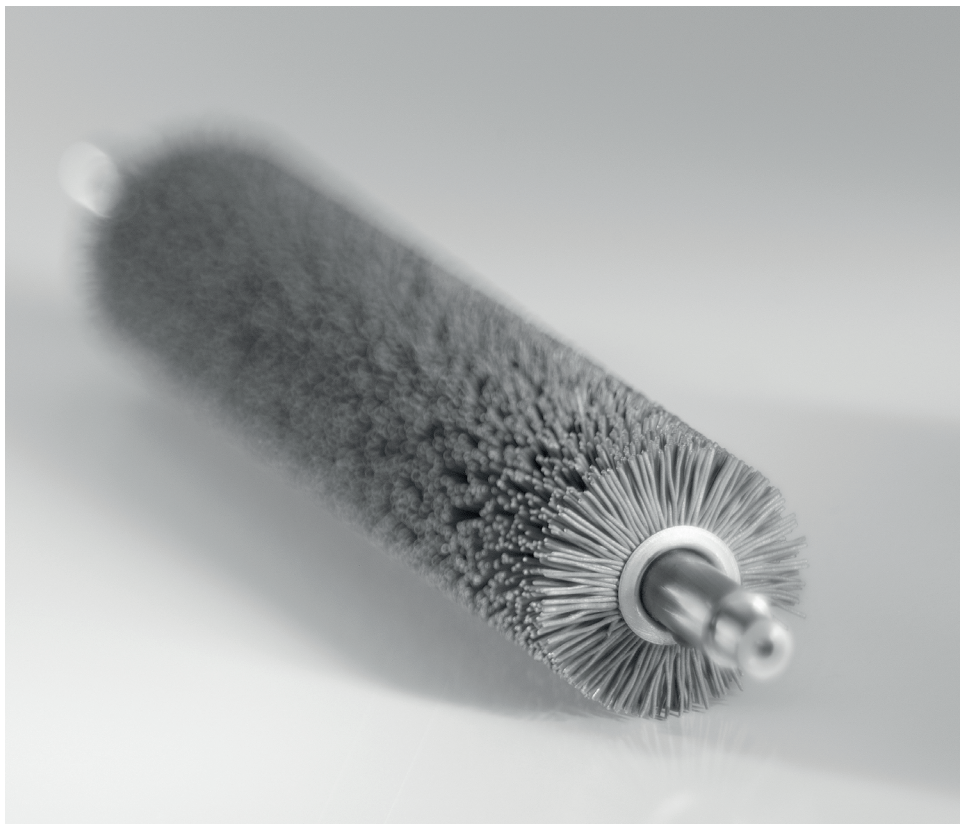




## Efficiency deserves the best filaments – Abrasive Filaments

Like most industries, steel manufacturers are always looking for ways to increase productivity. The emphasis is on getting more square feet of metal through the mill, cleaned and coated faster than ever before. To accomplish this, steel mills are using more aggressive cleaning solutions. The problem is that the cleaning brushes typically used were quickly degrading because many plastics used in the brush filaments cannot handle the solutions of the extremes of the PH scale. The technical resources at DuPont Filaments were able to help solve the problem by adding stabilizers to one of the nylon polymer formulations, effectively extending the pH range that these filaments can be used in. Brushes made with these filaments deliver cleaning performance over an improved service life, helping steel manufacturers to achieve higher productivity.

Another need voiced by customers is higher aggressiveness in metal finishing applications. DuPont™ Tynex® A filaments, a family of ceramic grit-containing filaments, was developed to meet this need.



## Creativity deserves the best filaments – Paintbrush Filaments



When manufacturers began changing their paints to water-based formulations, more people began using paintbrushes made with synthetic bristles because the hog bristles traditionally used in paintbrushes lost stiffness in water-based paints. Synthetics such as DuPont™ Tynex®, DuPont™ Chinex® and DuPont™ Orel® brand filaments quickly became popular choices. As paint manufacturers continue to improve their water-based formulations by reducing volatile organic compound (VOC) content,

increasing solid loadings and decreasing drying times, there is an ongoing need for increasingly higher performing brushes. To meet this need, DuPont Filaments continues to innovate and help customize solutions. For example, we developed filaments with stiffer cross-section that can push higher viscosity paints more efficiently. We also changed the shapes of the filaments so that they not only pick up more paint from the can for faster application, but are easier to clean.

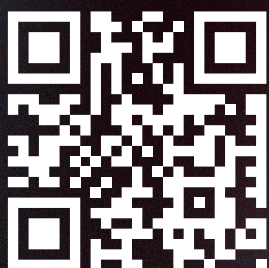
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For all enquiries please contact:  
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AUTOMATION

CUSTOMIZED TECHNOLOGY SINCE 1957



# 7 Factors Why Customers Choose Yangzhou Jingdu Brush Co. Ltd.



**Y**angzhou Jingdu Brush Co., Ltd is a family owned and operated China-based company, established in 1996. Since its inception, it has focused on processing natural white, black and grey boiled bristle and all kinds of bristle mixtures, as well as manufacturing brush filaments, physical and chemical tapered brush filaments, cosmetic filaments and PBT eyelash filaments.

The company plays a significant role in the region and enjoys great popularity in world market. Referring to its production capacity, Yangzhou Jingdu Brush Co., Ltd can produce around 1000kg boiled bristle and 3000kg brush filaments each day. The company has around 100 employees with 5 engineers and operates a good quality control system.

In its drive to bring its products to the global market, Yangzhou Jingdu Brush Co. Ltd is now able to sell these top products abroad.

**Following are 7 factors why customers choose us:**

## 1. Supply System

### Brush Filaments

All raw material for brush filaments is made from PBT and PET. All the PBT and PET is from Sinopec Yizheng Chemical Fiber Co., Ltd. Each batch of raw material is accompanied by a Quality Certificate.

When the material arrives, we mark it with the item code, the batch number and the date shown on it.

We record the data of raw material and Inspection Certification to the ERP system.

### Bristle

The raw material for bristle is sourced from Yunnan, Sichuan and Guizhou.

We wash, boil and dry the bristle.

They are classified according to colour and tops.

We label the goods with size, colour and tops.

We record all the data and Inspection Certification to the ERP system

## 2. Production Management System

On the table of workers, there are specific instructions showing how to select and sort qualified and non-qualified product. New workers



must be fully trained before they can be officially employed.

Before promoting the worker to more bulk products each worker will make one sample according to the material types. This sample is then used during the bulk production as a comparison until the order is completed.

Each order has its unique production number, from the first to last step. We will use the production number to trace the raw material used, in-process inspection, in which step, to ensure the requirement of the customer. It will also allow us to see clearly what is needed, if necessary, to pay more attention to and so on.

Regular maintenance of production equipment and effective maintenance records.

Each step receives QC checks and following approval will then move to the next step.

## 3. QC System

Each inspector is promoted through from the lowest working level. They have at least 5 years working experience.

They will pick 10 bundles from each layer to check the size and tops and bottoms.

Qualified products will have Qualified stamps on the cardboard.

QC will write the Quality Inspection Form for each item

After packaging they will re-check the weight of cartons again and will pick up two cartons of

each item for double checking.

## 4. Packaging System

5 layer exported standard carton with Tic-Tac-Toe packing strap.

Fumigation-free tray for LCL customers.

All finished products rest on an iron pallet waiting for distribution.

Shipping Mark is applied according to customer requirements.

## 5. Inventory System

All goods are stored on pallets.

Foam fire extinguishers are available in each warehouse.

List labels are attached on each of the goods on the pallets.

## 6. Ex-factory Inspection System

Item quantities are double checked before loading. Carton weights are double checked, picking 10 cartons from the bulk.

## 7. After Sale Service System

Every customer is called for feedback on goods received.

Should defective products be found, we negotiate with customers to give them the best compensation.

If customers propose a defective item, we ask them to take a photo or video to send to us. We check and compare them with the agreed samples. If the item cannot be used, we will make new goods in place of the defective ones. If the item can be used, we will make compensation accordingly.

For further information please contact:

**Yangzhou Jingdu Brush Co., Ltd**

**Sunny Wang, Sales Manager**

**Mob/Whatsapp: +86 13952544522**

**Wechat/Skype: sunnysmile201314**

**Email: sunny@china-bristle.com**

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PURE BRISTLE AND MIXTURE BRISTLE



IMITATION BRISTLE FILAMENT



PHYSICAL TAPERED FILAMENT



COLORFUL PBT BRUSH FILAMENT

## MAIN PRODUCTS

100% natural bristle(white, black, bleached, printed black, grey, or customized )  
 100% natural white boiled bristle  
 100% natural bleached boiled bristle---most for artist brush  
 100% natural black boiled bristle—most for hair brush, polish brush  
 100% printed black boiled bristle  
 100% badger hair bristle—shaving brush  
 100% Printed brown boiled bristle  
 100% natural grey boiled bristle  
 100% boar bristle

Natural bristle mixture synthetic brush filament  
 Bristle color can be white, black, grey, brush filament color can be customized  
 Natural bristle imitation filament  
 JD SMART A( natural white bristle imitation)  
 JD COPPPER A (natural black bristle imitation)  
 JD SMART 2(natural white bristle imitation B quality)  
 Physical Tapered Filament  
 PBT synthetic brush filament  
 PET+PBT synthetic brush filament  
 PP brush filament Horse tail Goat hair

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**Yangzhou Jingdu Brush Co.,Ltd**

South Industrial Park,Guocun Town Jiangdu District, Yangzhou City, Jiangsu Province, China



# BIZZOTTO GIOVANNI AUTOMATION SRL

**T**he Bizzotto Giovanni Automation Company was born in 1957 from the entrepreneurial ideas of Mr. Giovanni Bizzotto. The company has established itself by producing high-tech, groundbreaking machinery and is able to automate the assembly and production of any product; some big machine families designed by the Bizzotto Giovanni Automation Co. are custom made for woodworking, packing and for assembly of products for the cleaning industry. The company is always willing to analyze and solve all challenges faced by its customers, believing that the bigger the challenge, the bigger the customers' satisfaction will be in the end – as will the company personnel's.

The Bizzotto Giovanni Automation Co. is constantly looking for the best and newest technologies on the market. In this respect, the company has made significant changes in the last years, further improving the efficiency of its packing and palletizing systems and of its integrated assembly lines. It has also strengthened and expanded its engineering design department in order to provide a more comprehensive and performing service than before. These improvements encompass every stage of the production process, starting from the very first analysis and prototyping phase to the study of the line according to the needs of the customer and ending with all aftersales services. As new technologies advance, the constant implementations are made in order to achieve consistent performance improvement in all lines.



**Always willing to analyze and solve all challenges faced by its customers, believing that the bigger the challenge, the bigger the customers' satisfaction will be in the end**

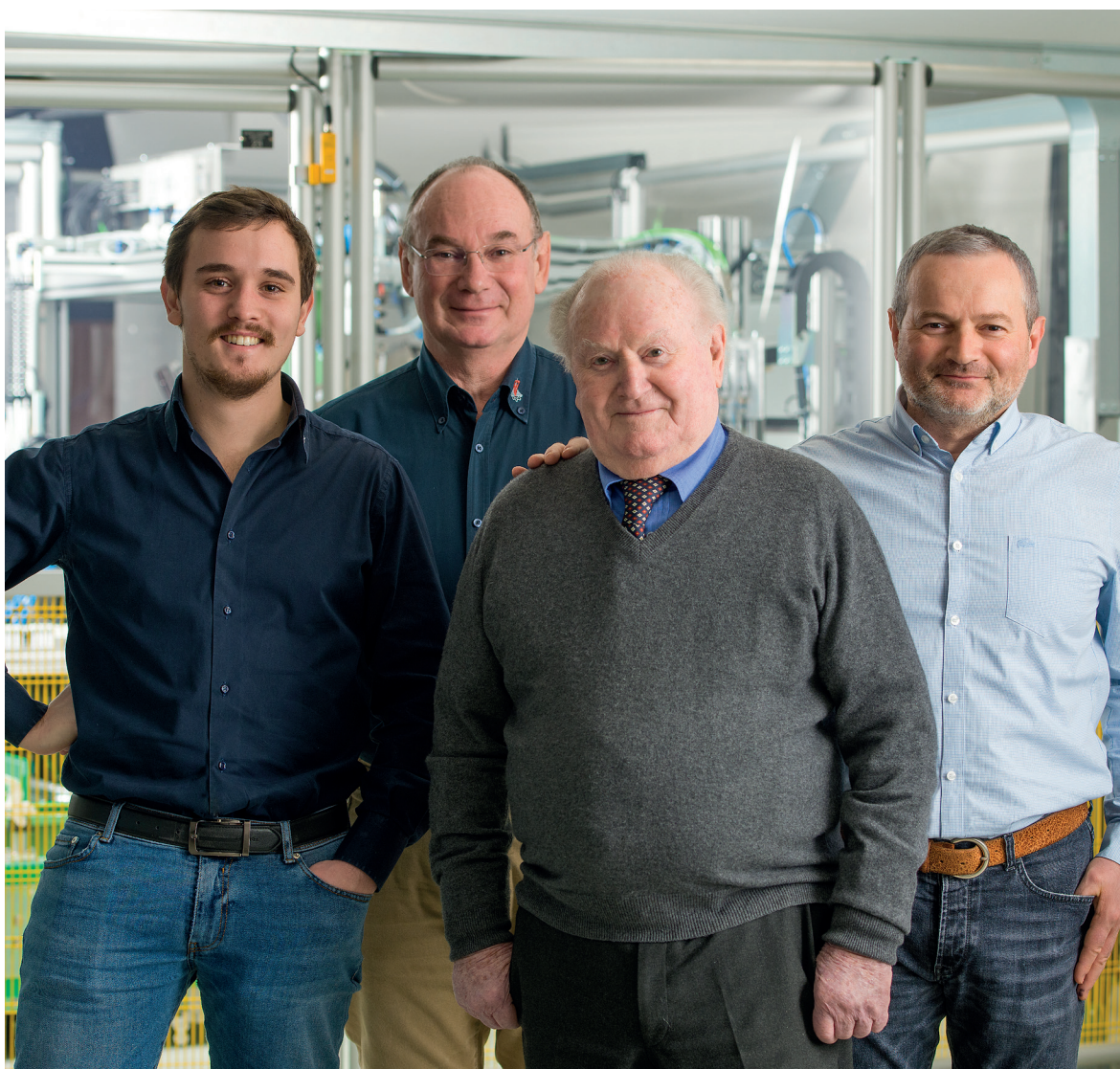
The Bizzotto Giovanni Automation Company develops its Industry 4.0 machinery to provide all its customers with the best and most advanced automation that modern technology can offer. The company itself is evolving by implementing increasingly centralized data control systems: this allows providing a customer-oriented service and assistance that is constantly growing and improving.

This year, the Bizzotto Giovanni Automation Company has opted to limit his appearances in the various industry fairs. This is due to the fact that the company is currently in the process of carrying out a series of investments related to its workforce and structure. The most important ones concern a significant increase in company personnel, with the consequent overhaul of its organization chart, while on the structural side the company is expanding its engineering offices even further and is preparing to triple its assembly and testing lines by acquiring new production plants.



**BIZZOTTO  
GIOVANNI**  
A U T O M A T I O N

**CUSTOMIZED TECHNOLOGY SINCE 1957**



**Left to right: Bizzotto Giovanni Jr (son of Marco), Bizzotto Marco, Bizzotto Giovanni Sr (Founder), Bizzotto Mauro (brother of Marco ).**

Relying on its vast technical expertise, the company is investing even further in youth by developing training programs in partnership with the various local technical institutes. As of this year, the company has also started a partnership with the University of Padua, one of the most active universities on the territory as research is concerned, especially in the fields of IT, mechanical engineering and electronics. These projects stem from the company's desire to transmit all knowledge gained in 60 years of history, as well as the great passion that the Bizzotto Giovanni Automation Co. has always been renowned for.

**"We look forward to meeting you in Interbrush 2022"**

**Bizzotto Giovanni Automation srl**  
**Via M Buonarroti 67**  
**Paviola di S Giorgio In Bosco**  
**PD**  
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**TEL: +39 049 9451067**  
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**Website:**  
**<http://www.bizzottoautomation.com>**

**Marco Bizzotto**  
**General Manager**

**[info@bizzottoautomation.com](mailto:info@bizzottoautomation.com)**



# HSL

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SINCE 1911

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Hans Schuhmann Lauf - dedicated with a great love of details to the plethora of different and innovation-rich wooden products. We constantly convince loyal and new customers of our ability to perform in the field of finished products, new technologies and production. We had a vision of making the latest 3-D technology more accessible and developed functionality that really supports our customers' needs. Since 1911, Hans Schuhmann Lauf has taken every opportunity to upgrade its products in a modern and efficient manner. Through the collaboration of several generations, our family-run enterprise has gained a wealth of experience, which we are honoured to share through our constantly growing number of product creations. Enter with us the new era of high-end production and get inspired by our customised-3D-solutions.



# Waffenschmidt GmbH:

## *Leading Manufacturer and Trader of Animal Hair to the Brush Industry*

**W**affenschmidt GmbH has been a leading manufacturer and trader of animal hair for nearly 60 years, supplying the global brush industry over 3 generations of this family run business. They procure the finest quality animal hair from South America, China and mixtures with synthetic fibers from Europe.

Waffenschmidt can meet all brush-fill fiber needs and supply standard qualities as well as special mixtures according to customer's specific application and cost. To fulfil these requirements, Waffenschmidt can fall back on two key production areas:

In Germany, they have the world's most modern production of computer-controlled mixing and combing machines and, with their own production for cattle and horsehair in South America, are an unbeatable team.

We can supply the following materials:

- Double drawn Horsehair and Goat hair
- Fully dressed Horsehair and Cattle tail hair
- Mixtures with animal hair and all available synthetic fibers

Lars Waffenschmidt can be reached using the following details:



**Lars Waffenschmidt**  
**Waffenschmidt GmbH**  
**Alte Burg**  
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**Germany**

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**Fax: +49 6775/928-2**

**[l.waffenschmidt@t-online.de](mailto:l.waffenschmidt@t-online.de)**



 **Double Drawn Horsehair and Goathair**

 **Fully Dressed Horsehair and Cattle Tail Hair**

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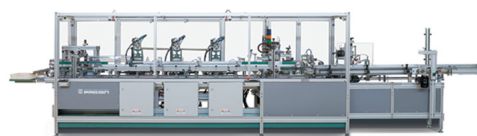


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MIXING MACHINE FOR BRISTLES AND FILAMENTS "M6AL"

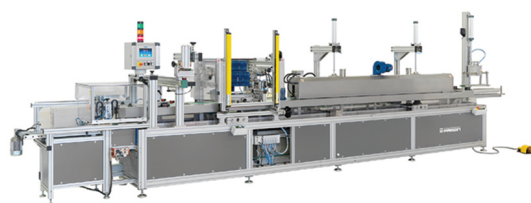


PAINT BRUSH HEAD ASSEMBLING MACHINE "TPB3"



**1951 - 2020**  
**69 YEARS SERVICING THE BRUSH INDUSTRY**

RESIN DISPENSING LINE WITH HANDLE ASSEMBLING AND CURING TUNNEL "TPP-H"



**P** *technology for the brush industry*  
**PAGGIN**

## Paggin Introduces the Mixing Machine with M4AL with Compact Bundler VLR

The **M4AL** was conceived for synthetic mixtures with drastic waste reduction and easy set-up.

The Mixing carriage is servo drive operated, the suction system has been redesigned to increase the suction power and the operator controls are set on an orientable console placed directly on the working shelf. Furthermore, the maintenance is now limited to few simple operations, but keeping the traditional reliability of every piece of Paggin equipment. The bundler **VLR** is equipped with a round cup's carousel allowing it to contain the total length of the line within 7m.

The second machine in the spotlight is the head-maker **TPB-3AF** for straight and angle paintbrushes, equipped with the new robotic ferrule feeder **AGH-R**. The configuration of the **TPB\_3AF** allows the production of a wide range of paint-brush heads, from small sizes with single wedge to large sizes up to the block brushes 3 x 12 with three thick wedges. Two of the three wedge feeders can be set to an angle in order to assemble angle shaped brushes. The knot-picking precision make the **TPB** series machine the reference point for the production of paintbrushes with synthetic filaments.

All Paggin machines are equipped with internet connection for remote assistance.

Please contact us as (below) and we also look forward to seeing you at INTERBRUSH 2022!

**Paggin PG srl**  
**Via Matteotti**  
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**Venezia**  
**30035 Italy**

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**info@paggin.it**  
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Since 1970, SOVB is making brushes and brooms for sweepers. Over the past 50 years we have developed a complete range of products to fit all sweepers brands and models: Side brushes, brush rings on plastic injected support, stapled roller brooms on plastic tube and a wide variety of technical brushes for specific uses.

Our brushes and brooms are equipping some of the biggest European cities but also several thousands of users such as airports, cleaning companies, public work and maintenance contractors, sweepers manufacturers...

Due to the integration of all industrial processes necessary to produce the brushes, SOVB is also offering components for brush making: Injected molded supports (blocks, rings, tubes), Synthetic filaments (Polypropylene, Polyester, Polyamides), Flat wire in several sizes. SOVB has developed an innovative silent filament with increased life duration, made from steel wire coated with rubber: The Long Life 2BCA (LL'2BCA).

The company also invests in environmental protection by collecting and recycling worn brushes and brooms from its French customers.

The experience of SOVB, based on long-term relationships with its customers, enables to find and create tailored solution even for specific requirement. Our team will assist you in the selection and the best bespoke choice for your needs.



Société Ouest Vendée Balais  
Fabrication de balais et broasses de voirie et de travaux publics

[www.brushexpert.com](http://www.brushexpert.com)



Société Ouest Vendée Balais  
Filaments, supports and brushes for sweepers

We look forward to  
seeing you at Interbrush 2022

**50<sup>th</sup> anniversary**

SOVB, french manufacturer of filaments, wire and supports for brushes and brooms since 1970.



Visit our website [www.sovb.fr/en/](http://www.sovb.fr/en/)





## High Quality Bristles and Synthetic Filaments from Yongli Filament & Bristles

**Y**ongli Filament & Bristles is a leading manufacturer providing the best bristles and synthetic fiber to brush makers. With 40 years' experience of strict quality control and superior service, Yongli products are popular in Europe, USA and South America. Yongli works with German agent Rothlaender who provides the convenient and fast delivery to European customers without any delay. Our products are introduced below:

### Bristle

With more than 40 years of production experience, we are good at producing high quality bristles for the paintbrush industry. Thanks to our brush factory, we know better than others what kind of bristle is suitable for brushes.

Our bristle is of full tops, less shorts, good combing, dressing and very good for use in machines.

We are also producing the best bleached bristle for artistic brushes. We aim to be better than our competitors.

### We have the following items,

- Chungking white/black/grey/bleached Bristle from 90% to 60%, double boiled and triple boiled
- Shanghai white/black/grey/bleached bristle from 90% to 60%, double boiled and triple boiled
- Tsingtao white/black/grey/bleached bristle from 90% to 60%, double boiled and triple boiled

- Hankow white/black/grey/bleached bristle From 90% to 60%, double boiled and triple boiled
- Bristle cut, rifling
- Mixtures of CHIMIX AND POLYMIX

### Filament

With the experience of best quality bristle production, we know how to make filaments close to, and even better than, natural bristle. Thanks to our technicians and advanced lab, we have innovated superior filaments: Napoly, paintmate, Vercel, Polykaron pst and pht which are very popular worldwide.

We are experts in the tapering uniform, soft filaments and tips of high flexibility, durability and elasticity. We aim to be better than our competitors.

### We have the following items:

**Napoly** - This is our best filament mixture in the market, with its appearance of natural bristle and a superior painting performance even better than natural bristle

**PAINTMATE** - Popular in the market for more than 10 years, it remains in high demand due to the very good painting performance, very soft tips and flexible fibres unique to this product.

**VERCEL** - The unique filament in the market tapered from top to end which requires the highest level of production and quality control. It is super soft and

flexible, best for lining and painting and offers very good soft feel, easy to paint for detail.

**POLYKARON PST AND PHT** - Better tapering and more pht to make this filament soft and flexible. The tapered part is at least 20mm, while most competitors make only 2mm to 5mm.

### Paintbrushes

With the help of our own bristle and filament factories, we are producing better brushes as we have better pricing and quality control. Unlike others, we do not have to buy materials like bristle and use a factory from outside; we use our own. Our bristle and filament materials are the best in the market, which makes our brushes among the best. We always aim to be better than our competitors.

### Horse and Goat hair

We produce well washed and combed horse tail hair, horse mane hair, goat hair in white, black, grey and any other colour required with sizes from 4" to 36" or longer in double and single drawn. Disinfection and veterinary certificates are available.

**For more information please contact**  
**who@ylfilament.com +86 13905151966**  
**eric@ylfilament.com +86 18061731285**  
**www.ylfilament.com**



Napoly PAINTMATE CHIMIX POLYKARON VERCEL

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Visit us at INTERBRUSH 2022





**Marco Kracht**

Interbrush 2020 was supposed to be the fourth time in a row that the Marco Kracht Company was to be attending the exhibition as an exhibitor.

But the story of the company in producing flagging knives is much longer, in fact, it started its activity just after the second world war under the name **Morassi Alfeo**, who began the production of the first flagging knives for the company Dal Maschio around **1970**. In 1992 Mr. Morassi Alfeo retired and sold to **Mr. Marco Kracht** who had grown up spending many summers there taking an interest.

When Mr. Marco Kracht bought the company, its only product was the **flagging knives**, so he felt the need to diversify the production and set up to produce the needles for the corn broom sewing machines and the blades for the trimming heads of the trimming and flagging machines. **The most recent products introduced in the production line of the company were the vices and the blades for cutting the metal pipes of broom handles.**

With the introduction of **PET filament**, customers began to ask for a long-lasting flagging knife, so Mr. Marco Kracht, with the help of the company that is making the heat treatment of knives, **developed a new process for having harder knives with the same flexibility of the softer ones.** Since then, a couple of years ago, with the help of his steel supplier, he started to produce the knives with a different steel alloy that with the heat treatment process developed before could arrive to an hardness of 62-63 HRC Rockwell points; practically the same hardness of a drill for drilling steel, but with the same flexibility of all the knives produced before.

Until 2001 the main customers of the company were all the Italian producers of the machines: **Dal Maschio, Borghi, Mass, Osmas 3 and Giori Bernardo**, confirming a strong reliable reputation. **With this experience and history, the company Marco Kracht is glad to announce new improvements in the flagging knives and some new products. If you would like to discover more about these products and how they can assist your business, I will be very glad to hear from you.**

Please contact me, Marco Kracht:

☎ +39 02 2441 6854

✉ info@marcokracht.com

🌐 www.marcokracht.com

Made in Italy

**SEE YOU IN  
INTERBRUSH 2022**

**Flagging Knives  
Advanced, Strong  
& Reliable.**

www.marcokracht.com

## Suppliers for the brush industry!

G.D.F. has been in business since 1983 and supply a wide range of diverse products for the broom and brush industry in many foreign markets.

Her main line of products are: handles and poles, foamed and solid blocks and backs for brooms, brushes and floor brushes.

Alongside these, many different types of buckets and associated cleaning tools are also supplied.

To see her range of products at the show and discuss your selection please visit Gabriella de Franceschi at:

**INTERBRUSH 2022!**

**YOU ARE WELCOME!**

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gdf@gdfsrl.eu www.gdfsrl.eu

**G.D.F. di De Franceschi Gabriella & C s.a.s**





# 62<sup>nd</sup> FEIBP CONGRESS

## PRAGUE ■ 22 - 25 SEPTEMBER 2021

The European Brushware Federation (FEIBP) assembles 370 brushware manufacturers and suppliers in 14 European countries, either represented by their national brushmakers association or as individual company member.

Since the establishment in 1958 the annual congress is the outstanding platform for the EU brushware industry to meet. A great network for manufacturers and suppliers for sharing strategic and technical developments. What are the threats and opportunities for the industry? And how to remain competitive in a global market?

Working groups and keynote speakers form a key part of the congress which also incorporates a comprehensive social programme. Do not hesitate and join the European Brushware industry in Prague. As a first time attendee FEIBP offers a discount on the congress fee.

### 10 reasons to attend the European Brushware Federation Congress and to become member of FEIBP

1. It is the only annual meeting point for the European brush industry. It is held in a different European country each year, generally in city locations close to major rail and airport links, making it easy and cost effective to get to.
2. It is attended by many brush manufacturers covering all main areas of the market (technical brushes, professional food hygiene brushes, paintbrushes, household brushes and personal care brushes).
3. A unique chance to meet all main raw material suppliers and machine manufacturers in the same place.
4. Be part of the interactive FEIBP website, with product/market information on all brushware products, with your own company profiled.
5. Listen to technical and strategic presentations – all on topics relevant to your company and your industry.
6. Take part in working groups for more detailed discussions with your peers to help benefit your company:  
**Working Group Professional Hygiene Charter**  
A group of 25 registered companies, delivering hygiene products compliant with all existing hygiene regulations  
**Working Group Paint Brushes**  
Dealing with quality and market issues  
**Working Group Technical Brushes**  
Technical developments and research initiatives  
**Working Group Personal Care**  
Sharing quality and regulatory issues
7. FEIBP has strong contacts within the European institutions and European Chambers of Commerce to discuss and advise on behalf of our industry with regard to European legislation and regulations.
8. The FEIBP provides a network of professional industry contacts enabling you to meet potential new customers and suppliers.
9. The FEIBP Congress has been held for more than 60 years and is a fun and very well organised event for both delegates and partners.
10. Becoming a member helps strengthen the European brushware industry and secures jobs in Europe!



IT WILL BE A PLEASURE TO WELCOME YOU  
TO THE 62<sup>nd</sup> FEIBP CONGRESS



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# Roth Composite Machinery presents itself at Interbrush in Freiburg

**R**oth Composite Machinery from Burgwald is going to participate in the trade fair Interbrush in Freiburg now taking place in May 2022.

The international exhibition takes place every four years but in 2020 unfortunately the fair was postponed due to the Covid-19 crisis. We look forward, however, to welcoming you to our stand in 2022.

In Freiburg, Roth will show its leading production machines for the manufacture of brushes for technical applications and high-quality household appliances. The machines stand for first-class product quality and efficient mechanical engineering. A global network of sales agents ensures fast and top-class service.

Customized designs and the equipping of machines exactly according to the customer's requirements are major strengths of Roth Composite Machinery. In recent years, the company has been expanding its expertise on the international level by means of especially powerful and energy-saving drive elements as well as by introducing a highly efficient production process. This technology, called "RoAn", stands out with an extreme running smoothness, low wear and an exceptionally high process reliability. Thereby, Roth Composite Machinery asserts its membership to

the world leaders of manufacturers in the brush-making machine industry.

## Manufacturer with tradition

For 100 years, Roth Composite Machinery – formerly known as Schlesinger – has been developing, manufacturing and selling universal production machines for the brush industry. The company has become one of the leading manufacturers of high-quality machines from smallest beginnings. Thereby, the focus is on advanced and high-performance constructions considering particular versatility and user-friendly operability. Various machine versions can be planned from basic designs to high-end machines.

The portfolio of Roth Composite Machinery also includes coating and filter pleating machines as well as machinery for the manufacture of light-weight components by using the filament winding process. In this field, the company is world market leader.

## Interbrush

The trade fair for machines, materials and accessories for the broom, brush, paint roller and mop industry is going to take place for the 13th time. Interbrush is the leading trade fair in this industry and attracts professional audience from all over the world. In 2016, the trade fair drew in over

7,500 visitors from around 90 countries. They could inform themselves about the latest developments presented by 200 exhibitors on a surface area of around 21,500 square metres.



**Above:** Universal brush-making machine U-BFA21/E5 with two drilling stations, one filling tool as well as a freely programmable 5-axes PC control.

For more information please contact us using the details below.

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**Facsimile +49 (0)6466/922-100**  
**www.roth-industries.de**  
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## Your Performance - Made by Roth

Schlesinger Quality since 1919



- Over 100 years experience in the field of brush and broom machines
- Professional competence for highest requirements and versatile applications
- Customized machine concepts with innovative solutions



## Roth Composite Machinery GmbH

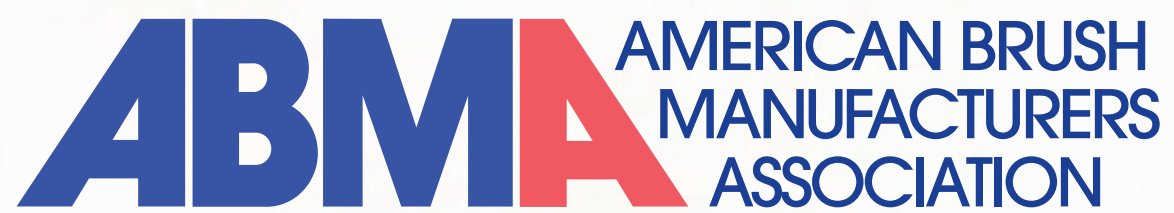
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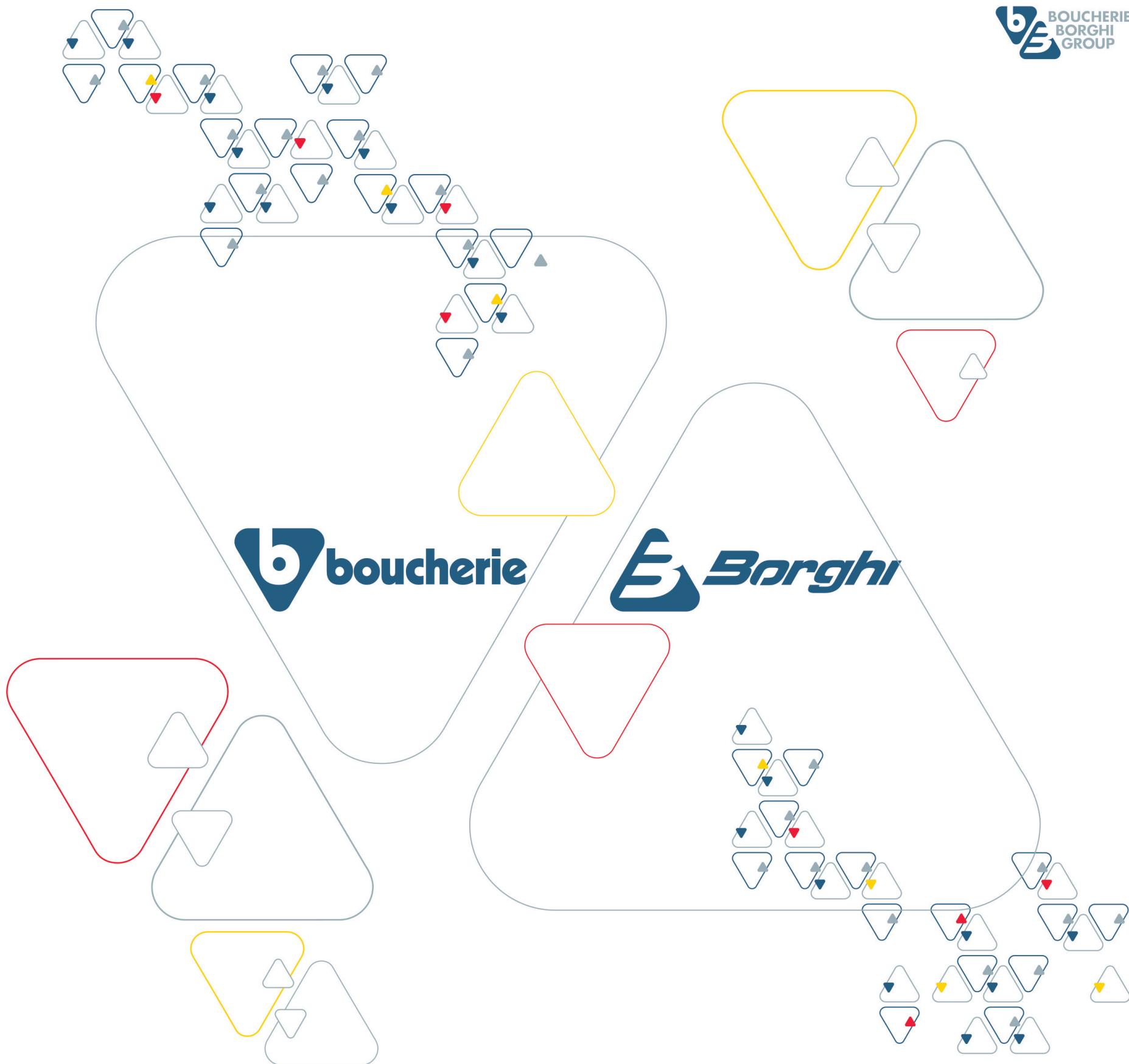
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As a Group, Boucherie and Borghi are connected, bringing together the souls of the two individual companies. Innovation and customer service have always been the cornerstones of our Group.

We are one. You, our customers, are all that our Group is about.

We want to listen to you, understand your needs and provide solutions for your manufacturing needs.

That is how we want to bring "INNOVATION CLOSE TO YOU".