



在洗车领域，最先进技术的刷子最先进的洗车刷技术

***THE MOST ADVANCED TECHNOLOGY  
IN CAR WASH BRUSHES***





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# 公司

Morelite (摩艾利特股本公司) 在圣马力诺共和国生产洗车刷。该公司的历史可以追溯到1972年, 当时Dino Bernardi在洗车刷领域开始了他的事业。

在接下来的40年里, Bernardi设计并制造了今天仍在市场上销售的大部分洗车刷, 这些刷子已被最大的国际公司采用。2013年, 经过多年的行业经验, 迪诺 (Dino) 先生决定创办一家新公司: MORELITE 股本公司。他与在车辆清洁领域有30年经验的法布里奇奥-莫托里尼 (Fabrizio Mortolini) 和嗅到摩艾利特成功的企业家爱德华多-基亚鲁齐 (Edoardo Chiaruzzi) 合作, 创建了这家新公司。

2022年, 因为莫托里尼 (Mortolini) 决定离职, 所以MTM HYDRO srl 成为 Morelite 的最大股东。

MTM Hydro srl是一家意大利公司, 专门设计和生产用于自助洗车的机器 (其中包括: 吸尘器、地毯清洗机、清洁产品的自动分配器)。

# 使命

MORELITE不断寻找尖端技术来制造高性能、经久耐用, 并与任何类型的系统兼容的洗车刷子。

MORELITE 的目标为遵循创新和技术的使命, 而改善洗车世界做出贡献。

“有在技术上投资, 才能实现高质量的目标”。

# 品质

一支由 15 名年轻有素的人组成的团队以及最优质原材料的使用让我们创造世界上最先进的产品。



# 创新

该公司的创新天职体现在其众多的专利上。其中包括: SHAPE, FULL-TOUCH, ENERGY45, VARIANT, PLUG & MORE。

# THE COMPANY

The company is located in the state of San Marino and that's where the brushes are released thanks to high technology systems. The history of the company is related to 1972 when Dino Bernardi started his activity in the field of car wash brushes. 40 years later, Mr Bernardi projected and released the majority of the car wash brushes still in the market today being adopted by the biggest international companies. In 2013, after so many years of experience in the sector, Dino decided to start up a new company: the Morelite. He created this new factory in cooperation with Fabrizio Mortolini, a 30 years' experience in the sector of vehicle-cleaning and Edoardo Chiaruzzi, a businessman who smelled Morelite's success. In 2022 Mortolini decided to quit his position and MTM HYDRO srl became the major share holder of Morelite. Mtm Hydro srl is an Italian company specialized in designing and manufacturing of machines for self-service car-washes (vacuum cleaners, carpet washers, vending machines of cleaning products, etc.)

The company is constantly looking for cutting-edge technologies to create high-performance car wash brushes, resistant to time and compatible with any type of system. MORELITE's goal is to contribute to the improvement of the car wash world, following our vocation for innovation and technology.

# MISSION



The company is realising high quality, strong and durable brushes thanks to a valid assembly process, a team of 15 young and qualified people and the use of top quality raw material.

# QUALITY

# INNOVATION

The vocation for innovation is reflected in the numerous patents filed by the company and industrialized to be used on our car wash brushes: SHAPE, FULLTOUCH, ENERGY45, VARIANT, etc.

***“ Only if you invest in the technology you can reach high quality goals”***





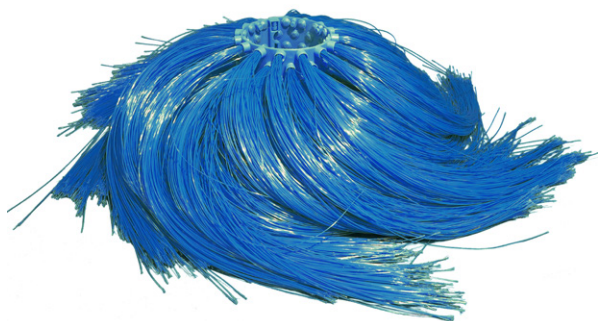
# morefil

## 毛线刷

用最优质的原材料（聚乙烯、聚丙烯、尼龙等）独家生产，MOREFIL 传统毛刷采专为清洗大型车辆如货车、卡车、公共汽车、火车而设计。它们有力而高效的运动可去除最顽固的污垢，同时它保证对处理过的表面不受损害。

## FILAMENT BRUSHES

*This type of brush is exclusively made by top quality material (polyethylene, polypropylene, nylon). MOREFIL is specifically made for the cleaning of big vehicles as vans, trucks, buses and trains. The energetic and efficient movement of the brush realizes a deep cleaning, without damaging the delicate surfaces.*



# 优势 HIGHLIGHTS

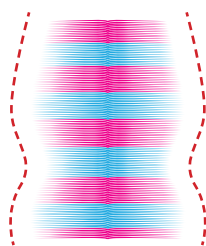


## SHAPE切割

MOREFIL洗车刷也有专利的“Shape”切割方式。这种获得专利的切割方式使刷毛元件能够跟随要洗车辆的形状。一个令人难以置信的表现。

## SHAPE BRUSH

*MOREFIL brushes are also available in the “Shape” cut. Thanks to this particular design, the bristles can follow the shape of the vehicle. That’s resulting in amazing performance.*



## 羽毛

在所有刷毛尖上的均匀以及柔软羽毛，有助于在精致的水性涂料上留下较少的痕迹。由于全部自动的生产与控制的程序，分子韧性、颜色稳定性和柔软度是100%达到的目标。

## FLAGGING

*A soft and regular layer of feathers on the edge of the brush, helps the bristles to leave less traces on the delicate water-based paints. Molecular toughness, color stability, and softness are 100% achieved goals thanks to the process of production and control.*



**颜色和抗紫外线技术**

由于洗车刷毛被迫暴露在阳光下，刷毛含有添加剂可以保护它们免受引起它们的过早老化的紫外线的可用颜色是从市场上最强的颜料中挑选出来的。有11种色调可供选择，有无限的组合。

**UV-RESISTANT COLORS AND TECHNOLOGY**

*Given the forced exposure to sunlight, the bristles must contain additives that protect them from premature aging caused by ultraviolet rays. The colors available have been chosen from among the most resistant pigments available on the market. 11 colors and an infinite variety of combinations are available: single-color, multicolor, checkered, spiral, vertical bands, etc.*

- G** 黄色 - YELLOW
- T** 橙色 - ORANGE
- C** 红色 - RED
- V** 紫色 - PURPLE
- A** 天蓝色 - LIGHT BLUE
- I** 蓝色 - DARK BLUE
- S** 淡绿色 - LIGHT GREEN
- D** 深绿色 - DARK GREEN
- H** 银色 - SILVER
- K** 灰色 - GREY
- E** 黑色 - BLACK

**整毛束**

精确的一种插入系统确保每个口袋的毛线数量相同，这种方法从而形成完美平衡的刷毛，保证长期的可靠性。

**THE WIRES**

*A precise insertion system guarantees the same quantity of bristles in each cell, thus obtaining a perfectly balanced element and a guarantee of an over time reliability.*

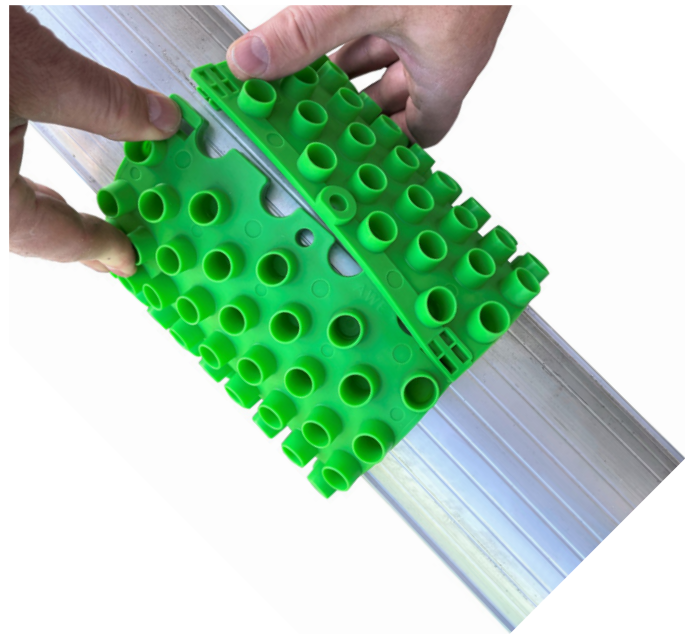
# 优势 HIGHLIGHTS

## 快速安装

在轴上的安装系统被设计成在组装和维护方面都很迅速。其实，由于机械压力接头，除了螺丝刀之外不需要其他工具。

### QUICK CONNECT COUPLERS

*The hooking system of the drums on the brush holder tubes has been designed to be quick both in assembly and in maintenance. Thanks to the click-hook it is not necessary to have tools other than a screwdriver. At the same time it is very resistant having both the pressure click fixing and the mechanical fixing by means of a screw.*



## 刷毛的支持

我们的刷瓦都是由塑料材料制成的，设计和模具都是Morelite拥有的，由我们集团的一家分公司处理注塑成型。一种完美无瑕的电子焊接能确保每条刷丝和刷瓦紧密结合，所以每条刷丝成为刷子的使用期内支撑结构的一个组成部分。

这种坚固的专利紧固系统可防止每条束毛的意外脱落以及也不会影响到相邻的刷丝或者不会削弱整片刷毛，缝制刷子的典型。

### THE BACKINGS OF THE MOREFIL STRIPS

*One of our companies, which is specialized in moulding injection, is manufacturing the whole selection of plastic backings. A perfect electronic welding is what makes solid and unbreakable the attachment of the strips to the brush.*





# morefoam

## 泡沫刷

通过实施MORELITE的研究和专利来设计和制造，MOREFOAM刷子是由改性EVA（醋酸乙烯酯）材料制成的。它们的主要特点就是在表面上的温和性、操作中的安静接触、即使经过无数次的洗涤也是可靠和高效的。

这种 刷子一般被用于专业轻型车辆的洗车设备的制造商使用。

## FOAM BRUSHES

*Designed and built by implementing MORELITE studies and patents, MOREFOAM brushes are made of modified EVA material. Their main characteristics are: delicacy on surfaces, silent contact, besides to reliability and efficiency even after tens of thousands washing cycles. They are adopted by the major manufacturers of car-washes.*



# 优势 HIGHLIGHTS



## FULL TOUCH 的方式

MOREFOAM性能的大幅提升是通过FULL TOUCH专利的创新实现的，其中洗涤条的偏移（过去是平行固定的，使末端部分变宽，因此与要洗涤的部分更好地接触。安我们发现的，在轴的旋转过程中产生的空气涡流是导致刷子的细绳在外围位移的主要原因之一。

在风洞中进行的分析使我们能够确定洗涤用刷毛的理想切割方式：现在洗涤条彼此相邻，没有任何空间。

此外，刷毛切口的根部是圆形的，因此同时获得了抗撕裂系统和洗涤边缘的更宽松的运动。

## THE FULL TOUCH SYSTEM

*A substantial addition to the performance of MOREFOAM is made possible thanks to the innovations of the FULL TOUCH patent where the misalignment of the washing strips (traditionally anchored in parallel), causes the end part to widen and therefore a better contact with the part to be washed. We have discovered that the air vortices that are created during the rotation of the shaft are one of the main causes of the arrangement of the strings in the periphery. The analysis performed in the wind tunnel allowed us to identify the ideal cut of the washing strips, which today work close to each other without any gap. Furthermore, the root of the cut of the flaps is rounded, thus obtaining both an anti-tear system and a looser movement of the washing fringe at the same time.*



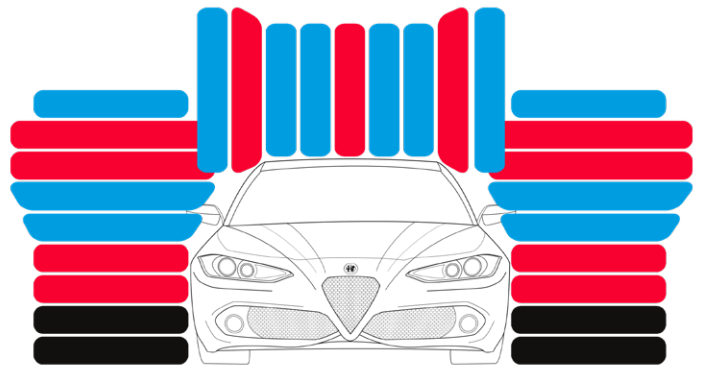
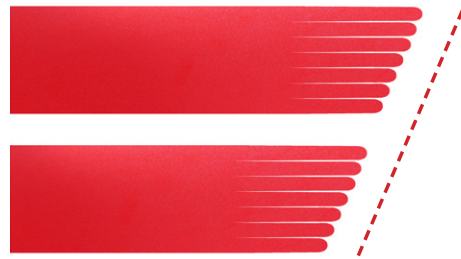
加宽 40%  
40% wider

**SHAPE切割**

根据安装位置的不同，刷毛可以跟随待洗车辆的形状而变化。这样，这项专利的创新可以让您有效地清洗玻璃的上部分、突出物和特殊外部形状造成的底切，从而避免了使用性能不佳、美学价值可疑的刷子。

**SHAPE CUT**

Morefoam brushes are also available in the SHAPE cut which allows the bristles, depending on the position where they are installed, to follow the shape of the vehicle. By doing so, this patented innovation allows you to effectively wash the upper part of the glass, spoilers undercut, protrusions and particular external shapes, thus avoiding the use of step brushes, which are not very performing and undoubtedly not good looking.



# 优势 HIGHLIGHTS



## E-MOTION

MOREFOAM刷子也有E-Motion版本，刷子的持续摆动使得车辆可以在交叉方向擦洗车辆，从而在最小的细节上和更短的时间内进行全面清洁。

每条刷毛被切割成两个直径，以便在被清洗的表面上进行两次运动从而进行摩擦：一次从顶端，一次从背面。因此，与轴的两个方向的旋转相结合，它可以同时实现另外两个运动或摩擦：一个向上，另一个向下。这种刷子的四个动作可以从多个角度来摩擦车辆的表面，确保无与伦比的洗涤质量，即使在普通刷子无法到达的车辆区域（后视镜区域、把手 等等）。

## E-MOTION

*The MOREFOAM brushes are also available in the E-Motion version where, a constant oscillation of the brushes, allows the vehicle to be scrubbed crosswise, for total cleaning in the smallest details and in shorter time. The strips are cut in two different lengths thus allowing two movements and therefore rub the surface to be washed: once with the tip and once with the back. Combined with the rotation in the two directions of the shaft, it therefore allows the simultaneous realization of two other movements or clutches: one upwards and the other downwards. Four movements in a single brush rub the surfaces from multiple angles, ensuring unparalleled washing quality, allowing you to wash effectively even in those areas of the vehicles where normal brushes cannot reach (rear-view mirror area, spoilers, handles, etc.).*



双重擦洗作用

**DOUBLE  
SCRUBBING  
ACTION**

### 可选的颜色

有 14 种不同的颜色和无限多种组合可供选择：  
单色、扇形、方格、螺旋形、在垂直带等。

#### THE VARIETY OF COLORS

*This type of brush is available in 14 colors and a big variety of combinations: monocolour, in sectors, a checkered colors system, strstripes and spirals.*

- G** 黄色 - YELLOW
- T** 橙色 - ORANGE
- C** 红色 - RED
- V** 紫色 - PURPLE
- A** 天蓝色 - LIGHT BLUE
- I** 蓝色 - DARK BLUE
- S** 淡绿色 - LIGHT GREEN
- D** 深绿色 - DARK GREEN
- H** 银色 - SILVER
- E** 黑色 - BLACK
- K** 灰色 - GREY
- R** 棕色 - BROWN
- Q** 酸橙 - LIME



### 定制

可以用你的商标来定制洗的条带。

#### CUSTOMIZATION

*It's possible to customize the washing flags with your logo.*

# 优势 HIGHLIGHTS



## 快速连接刷

在轴上安装刷瓦的系统为用于快速组装和维护而被计划。事实上，由于刷瓦的机械压力接头，除了螺丝刀之外不需要其他工具。同时，它非常耐用，因为它既有管子上的螺丝，也有压力和机械的固定机制。

## QUICK CONNECT COUPLERS

*The hooking system of the drums on the brush holder tubes has been designed to be quick both in assembly and in maintenance. Thanks to the click-hook it is not necessary to have tools other than a screwdriver. At the same time it is very resistant having both the pressure click fixing and the mechanical fixing by means of a screw.*

## 条带的支持

我们集团旗下的一家专业注塑公司用Morelite自己的模具生产刷子的支架。

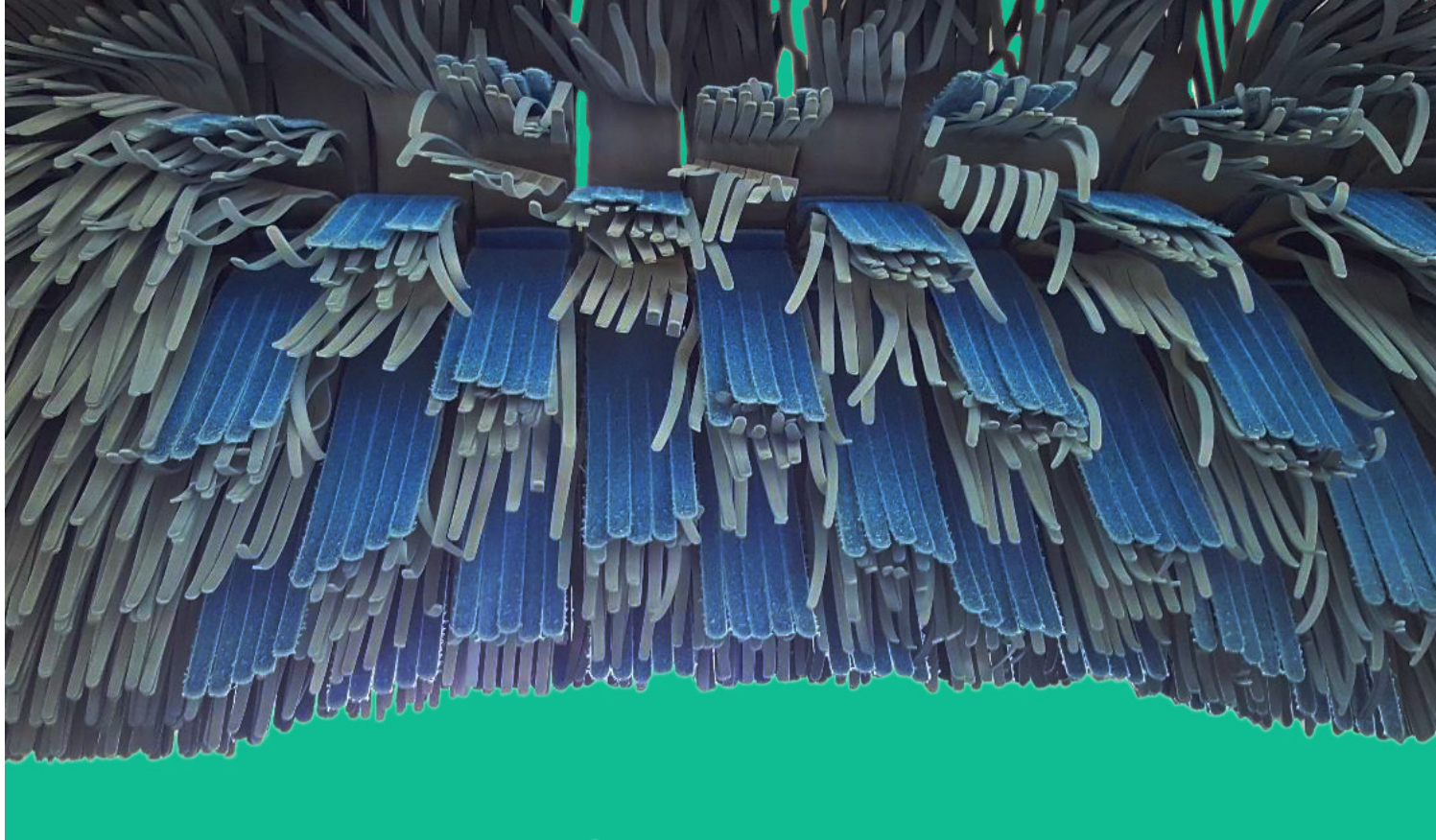
无可挑剔的电子焊接确保条带, 插入容纳 口袋中, 在刷子的整个使用寿命期能够保持在径向位置。

## THE BACKING OF THE MOREFOAM STRIPS

*One of our companies, which is specialized in moulding injection, is manufacturing the whole selection of plastic backings. A perfect electronic welding is what makes solid and unbreakable the attachment of the strips to the brush.*







# moretex

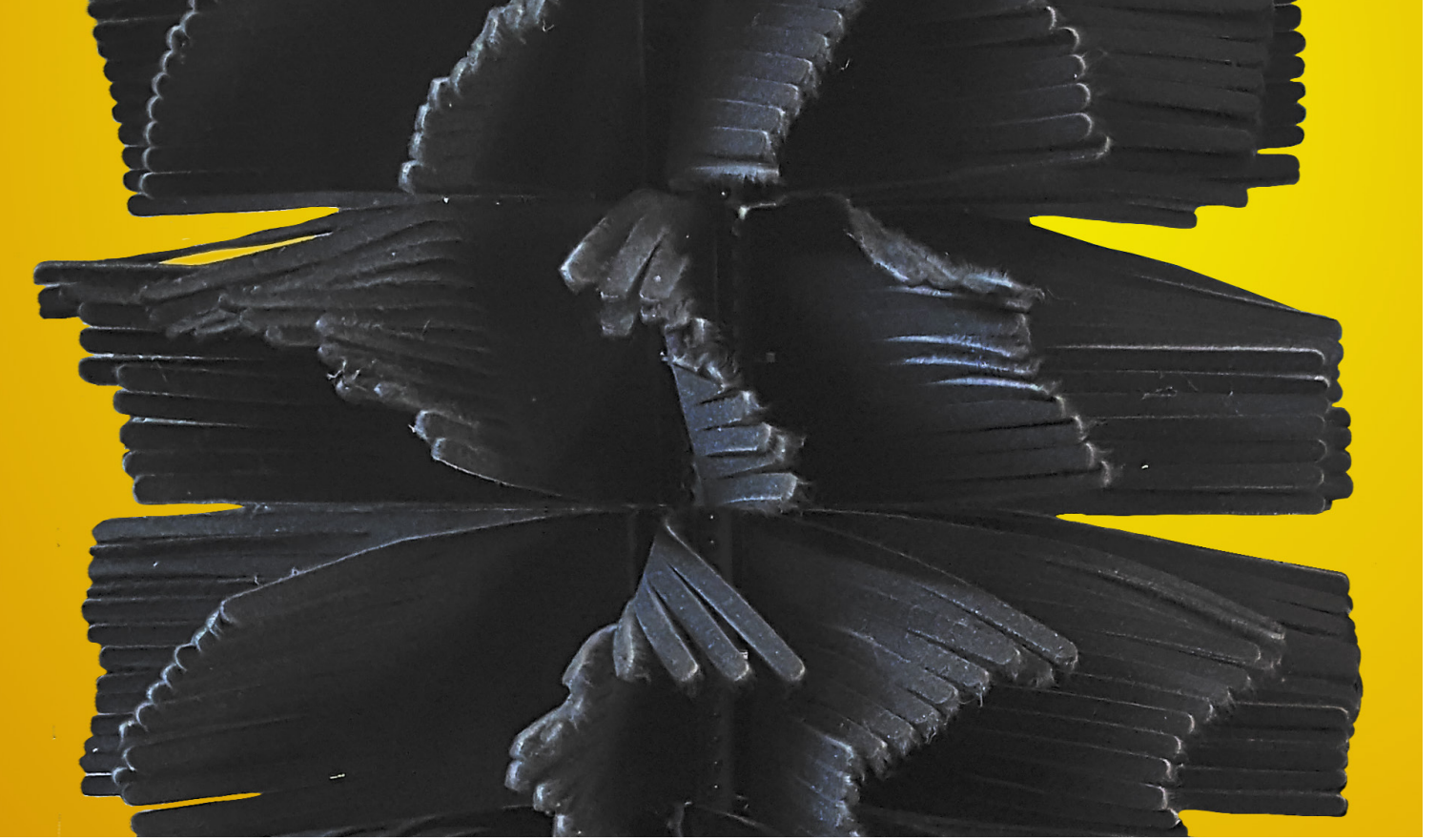
## **MORETEX 的刷子**

MORETEX由特殊的超细纤维制成，主要用作洗车性能的支撑刷和垂直刷的稳定器。清理前面的昆虫、提高边条的功效是使用混合刷（MOREFOAM-MORETEX）的一些优势点。

## **MORETEX BRUSHES**

*Made of a special microfiber, MORETEX is mainly used as a support brush for the performance of the washing system and as a stabilizer for the vertical brush. Cleaning the front of insects, increasing the effectiveness of the lateral bands, are some of the strengths of using a mixed brush (MOREFOAM-MORETEX).*





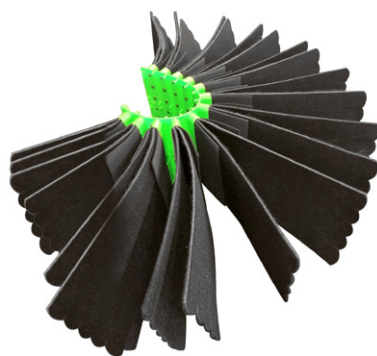
# more dry

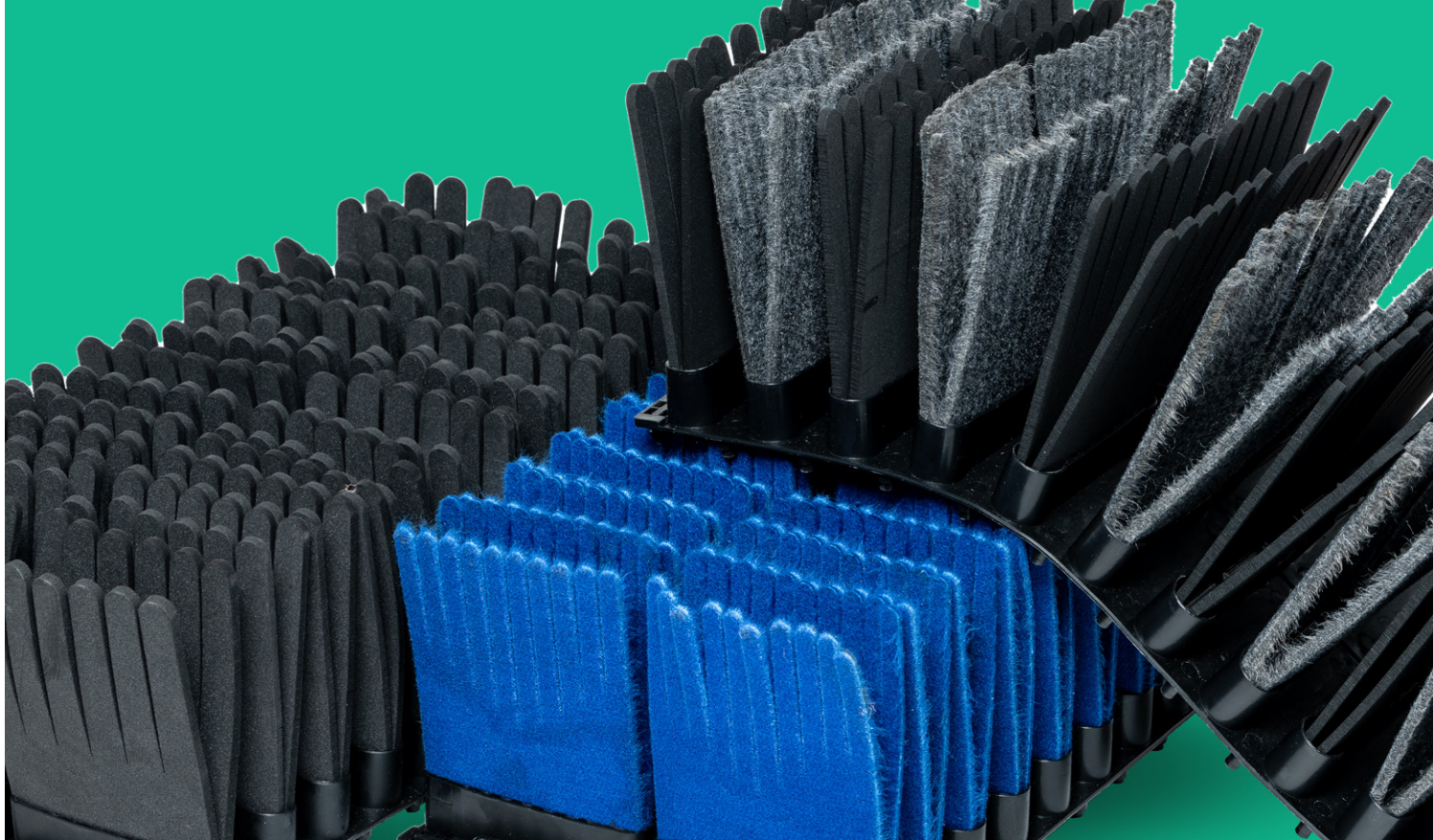
## **MOREDRY**刷子

MOREDRY刷子用于洗车设施，可以非常温和地干燥和抛光油漆和表面。这是一种所谓的“精加工”刷子，在隧道洗车系统非常流行。其天鹅绒般的表面具有非常高的吸收能力，可以去除车身的所有残留水滴，同时还可以抛光漆面。一个令人难以置信的劳动节约。

## **MOREDRY BRUSHES**

*MOREDRY brushes are used in car wash systems to dry and polish paints and surfaces with extreme delicacy. Also called "finishing brush", are much appreciated in tunnel car wash systems. Thanks to a very high absorbent power, its velvety surface and extreme delicacy, the MOREDRY brushes allow you to eliminate any residual drop from the bodywork and at the same time allow you to polish the paints, pulling the wax, and ensuring perfectly dry and shiny cars, avoiding so laborious manual finishing.*





# morefelt

## **MOREFELT 刷子**

MOREFELT 刷子 是专属由优质合成毛毡制成，它们主要用于清洗隧道系统。

这种带有网状核心的特殊多层结构，能管理水的吸收以及确保刷子的高效能和使用寿命

## **MOREFELT BRUSHES**

*Made exclusively with high quality synthetic felts, MOREFELT brushes are mainly used in tunnel car wash systems to wash surfaces with high cleaning power even on the most stubborn dirt. The special multilayer structure with mesh core allows to reduce the absorption of water and dirt and to ensure a long life of the brush. In addition, the particular surface finish makes the brushes incredibly soft to the touch and allows you to significantly increase the cleaning effect on the surfaces. Made in various designs, shapes and sizes, the felt brushes ensure very high performance even after numerous washing cycles.*







# plug & more

## 安装方式

这是一个前所未有的“专利申请中”的刷子：它实现了洗车经营者的梦想，即拥有一片可以安装和拆卸数百次的刷子，只需简单的释放和重新安装，无需使用工具。

上述灵活性将在洗涤效率和循环时间方面提供巨大的好处。

## FIXING SYSTEM

*A brush like this one has never been seen before now. Thanks to all the characteristics that make it a perfect brush, it is the tool all the car-washes' owners have always dreamed of. Just a simple hook is what makes easy and extremely fast the assembly and disassembly of the brush. This is an efficient system for the quality and the timing of the cleaning.*



# 优势 HIGHLIGHTS



## 适应性和速度

由于刷条和刷瓦的创新和快速的安装系统，安装简单，维护方便。事实上，可以根据季节更换刷子，选择最合适的刷子类型：根据已知的随季节变化的污垢，选择轻的或重的。此外，在劳动密集型隧道中，可以快速更换相同数量的清洁刷和干燥专用刷。众所周知，后者在数百次循环后失去干燥效果，因此需要“PIT STOP”式更换。

## **FLEXIBILITY AND QUICKNESS**

*Easy installation and easy maintenance thanks to the innovative fastening and quick release system of both the strap and the holder drum. You can change brushes depending on the season by opting for the most suitable type of brush: light or heavy depending on the dirt which, as is known, changes depending on the time of year. And again: in the labor-intensive tunnels you can quickly change both the brushes for washing with as many clean ones as those dedicated to drying which it is known that after a few hundred cycles they lose their drying effect, and need to be replaced "PIT STOP" way.*

## 兼容性和稳健性

可与任何材料（泡沫、毛毡、超细纤维等）一起使用。坚固耐用且使用寿命长，这要归功于特殊凹槽中的条带的超声波焊接，取代了使用尼龙搭扣的传统和过时的挂钩/脱钩系统。

## **COMPATIBILITY AND ROBUSTNESS**

*Possibility of use with any material (foam, felt, microfiber, etc.). Sturdiness and long useful life thanks to the ultrasonic welding of the strips in the special recess which replaces the use of the traditional and obsolete hooking/unhooking system by velcro.*





# more disc

## 洗轮盘

专为有效清洗龙门式洗车系统中的轮辋而设计，车轮清洗盘因其不同的尺寸、所用的各种材料（金属丝、泡沫、纤维等）而脱颖而出，独特的设计保证了无与伦比的清洗许多清洁解决方案和理念的性能。

## WHEEL WASHING DISCS

*Designed for the effective washing of wheel rims in gantry car wash systems, the Wheel Wash discs stand out for their different sizes, for the various materials used (thread, foam, fiber, etc.), for the exclusive design, which guarantee unsurpassed washing performance for the many cleaning solutions and philosophies.*

# 楷模 MODELS



## VARIANT和 SUPERVARIANT的 刷子

这是一个具有可变几何形状的车轮清洗车轮圆盘，完全模块化，带有全新的刷毛：圆形可在旋转过程中穿透辐条之间。轻巧、灵活、易于组装，它是一种适用于市场上不同类型轮辋的车轮刷子。

每个清洗单元都间隔，以便在一个或另一个方向旋转期间为刷毛的策略性折叠留出空间。可扩展直径最小为 520 毫米（20 英寸），最大为 585 毫米（23 英寸）。在操作过程中，最多可以覆盖 685 毫米（27 英寸）的宽度。

## VARIANT AND SUPERVARIANT

*It's a variable geometry wheel washer disc, a fully modular disc with convex bristles (new in the wheel-cleaning brushes) improves the penetration between the spokes during rotation. light, agile, easy to assemble, a real "ageless" record that can be fitted on any type of machines. The six washing modules, are spaced apart to make strategic room for the bending of the bristles during their performance in both rotation senses. The expandable diameter goes from a minimum of 520 mm (20 inches) up to 585 mm (23 inches). The pressure system there is no need any-more of tools to install it and it is so much more resistant.*

## 可選顏色 COLORS AVAILABLE



蓝色  
BLUE



红色  
RED



灰色  
GREY



黑色  
BLACK



黑色/灰色  
BLACK/GREY



黑色/蓝色  
BLACK/BLUE

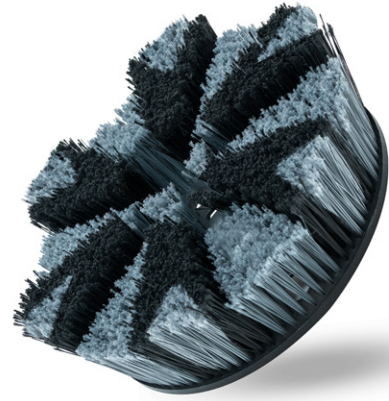


黑色/红色  
BLACK/RED



**VICTORY 刷子**  
刷毛设计带有两个“V”形突起，允许刷毛在旋转过程中弯曲并最佳地穿透到轮辋中。它们的直径为 510 毫米（20 英寸）。

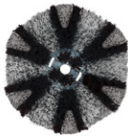
**VICTORY**  
*With double length "V" shaped bristle design specifically to allow for optimal bending and penetration into the rim of the bristles during rotation, they have a diameter of 510 mm (20 inches).*



### 可選顏色 COLORS AVAILABLE



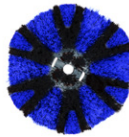
黑色  
BLACK



黑色/灰色  
BLACK/GREY



黑色/红色  
BLACK/RED



黑色/蓝色  
BLACK/BLUE



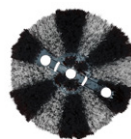
### STAR - STAR XL 的 刷子

STAR 型号是为不能使用超过 460 毫米（18 英寸）直径的洗涤而创建的，而 STAR XL 型号可以覆盖 500 毫米（19 英寸）的直径。采用带有两个突起的刷毛设计，带有垂直杆，它们保证了坚固性及清洁效率。

### STAR - STAR XL

*STAR model was born to clean where is not possible to use diameters bigger than 460 mm (18 inches), while wit STAR XL model it's possible to cover a diameter of 500 mm (19 inches). A perfect structure for a durable brush that can be used for deep cleanings.*

### 可選顏色 COLORS AVAILABLE



黑色/灰色  
BLACK/GREY

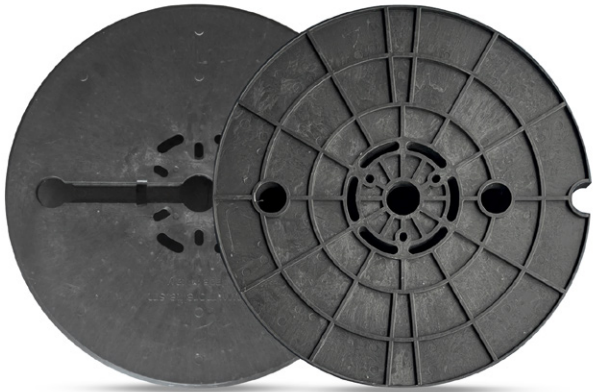


黑色/红色  
BLACK/RED



黑色/蓝色 蓝色  
BLACK/BLUE

# 优势 HIGHLIGHTS



## 万能的安装

所有的圆盘都配备通用固定装置，可用于任何类型的洗车设备。

## **UNIVERSAL FIXING**

*All discs are equipped with universal fixing and can be used on any type of car wash.*



# more pipe

## 刷轴 /管子

它们用铝制成采用非常珍贵的“6060 合金” 而且它们很方便与灵活地安装在所有的各种的洗车机。可立即交货的直径有：90 毫米、114 毫米、121 毫米。

## 法兰盘和销子

由我们集团内的公司制造，电机和惰轮一侧的适配器法兰和销轴可以由铝、镀锌铁或钢制成。

## PIPES

*The pipes are made of 6060 aluminum alloy and are one of the principal components of the brush's structure. The tubes have been released to be installed in the fastest and easiest way on car-washes, tunnel car-washes and industrial cleanings. Thanks to the detailed design they can be perfectly installed on the brushes and guarantee a smooth work.*

*Tubes are cut to size inside the company thanks to proper machines so that we can have different sizes and perfect details. The sizes of tubes available for immediate delivery are : 90 mm, 114 mm, 121 mm.*

## FLANGES AND PIVOTS

*The flanges and pivots are also made in one of our companies. Each flange is created according to the customer's design to ensure perfect fastening, reliability over time and quick installation. Besides, the pivots are motor side and neutral side, in various materials and sizes, scrupulously following the customer's indications and needs.*



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OUR WEBSITE



...and much more...



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