



# Guide to Choosing the Right Industrial Brush for Your Industry

THE INDUSTRIAL BRUSH COMPANY

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Industrial brushes play an important role in manufacturing, cleaning, finishing, and material handling across a wide range of industries. Common uses are to apply something, remove something or change the surface of something. Selecting the right brush construction and filament type can improve process efficiency, product consistency, and equipment longevity. This guide outlines key considerations and brush types to help you choose the best solution for your specific needs.

## Brush Types and Constructions



Industrial brushes are available in several construction styles, each suited to different tasks and environments.

- **Fineset™ Brushes:** Known for their precision and versatility, Fineset brushes are ideal for controlled applying, smoothing, and light cleaning. Available in dense, medium dense or open spiral configurations, they support a wide range of filament types and densities.

- **Double Band Channel (DBC) Brushes:** These brushes offer maximum bristle density and retention, making them suitable for aggressive cleaning, deburring, and surface prep. DBC construction is often used with wire and abrasive filaments.



Double Band Channel Brush

- **Tufted™ Brushes:** Designed for scrubbing and cleaning, tufted brushes feature staggered or multi fluted spiral arrangements in left hand, right hand and two way spiral to move unwanted contaminate in a desired direction. They're commonly used for cleaning conveyors, forming belts, and printing blankets.



Tufted Brush

Each construction style can be customized with different spirals, bristle densities, and trim lengths to match your process requirements.

## Filament Options and Their Applications

Choosing the right filament is just as important as selecting the brush construction.



Each filament type offers distinct performance characteristics, from chemical resistance and flexibility to abrasive strength and absorption capacity. Below is an overview of the main filament categories and how they align with different industrial applications.

**Nylon / Synthetic Filament:** Synthetic filaments offer excellent chemical resistance, fatigue durability, and consistent absorption rates. They're FDA-compliant and available in a wide range of diameters, shapes, and specialty variants including anti-static, conductive, high-heat, and metal-detectable nylon.

*Common uses:* Material transfer and converting, leveling, spreading, and applying in bakery, wood, pharmaceutical, and web-based production.



Nylon

**Abrasive Nylon Filament:** Abrasive filaments are infused with grit (not coated), allowing bristles to conform to complex profiles while resisting dust loading.

Available in Silicon Carbide, Aluminum Oxide, and Ceramic grits from 46 to 500.

*Common uses:* Deburring, sanding, scuffing, and surface prep on wood, metal, plastic, and circuit boards.



Abrasive Nylon

**Wire Filament:** Wire brushes offer the stiffest brushing action and are available in carbon steel, stainless steel, brass, and brass-coated steel. Single strand and braided wire options allow for fine or aggressive cleaning.

*Common uses:* High-temp cleaning, metal finishing, deburring, and distressing in wood, roll mills, bakery oven belts, and gear components.



Braided Wire



Single Strand Wire

**Natural Filament:** Natural fibers like horsehair, boar's hair, and Tampico provide soft, static-neutral brushing ideal for delicate surfaces and liquid absorption.

*Common uses:* Dust removal, stain wiping, and cleaning of wood, paper, and plastic parts. Also used in high-temp embossing and perforating applications.



Natural Fiber

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## How to Choose the Right Brush

Start by identifying your process goals; whether it's cleaning, applying, deburring, or finishing. Then match the filament type to your material and operating environment. Nylon works well for wet or dry conditions and offers chemical resistance. Wire is best for aggressive tasks and high temperatures. Natural fibers are ideal for soft-touch cleaning and absorption.

Consider filament diameter, bristle density, and bristle length to fine-tune performance. Denser brushes offer more contact and durability, while softer or tapered filaments protect fragile surfaces. Finally, ensure the brush construction integrates with your equipment and mounting system.

## Maintenance Tips

To extend brush life and maintain performance, clean brushes regularly to prevent buildup. Inspect for wear and replace when bristles become frayed or broken. Store brushes in a clean, dry environment to avoid contamination or corrosion, especially for natural and wire filaments. Always store brushes supporting them by the shaft ends. Do not lay brushes on the bristle for an extended period of time.

## Need Help Selecting a Brush?

Choosing the right industrial brush doesn't have to be complicated. Whether you need a custom configuration or want to explore standard options, our team is here to [help you find the best fit](#) for your application.

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