

BRUSH SOLUTIONS | S30 MID-SIZED RIDER SWEEPER

Stand Out from Competition by Offering Customers A Sweeping Brush Custom Tailored for Their Application

Brushes are possibly the single most important part of a sweeper. After all, it's the part that actually picks debris off the floor. Brush selection is critical to machine performance, cost of ownership, and customer satisfaction. Tennant's varied brush fill material and brush pattern options allow you to tailor a solution to meet the needs of any application and budget. It's one more way for Tennant to stand out from the competition as the best solution.

Considerations:

| | |
|--------------------------------|---|
| Floor Surface | Indoor or outdoor, rough or smooth. Concrete, asphalt, tile, pavers or wood. Coated or uncoated. |
| Types of Debris/Soilage | Fine dust, sand, metal chips, gravel, heavy objects. Light litter or bulky debris. Loose or compacted. Oil-soaked or grimy floors. |
| Sweeping Frequency | Steady continuous sweeping over multiple shifts may place impact bristle durability. For less frequent use, the type of debris and efficiency of pickup may be most important. Also, at what speed will the customer sweep? |

Sweeping Brushes Fill Material:*

| | |
|---------------------------------|---|
| Natural Fiber | Good material for sweeping fibrous debris and small particulates, but has a relatively short wear life compared to other materials. |
| Nylon | Excellent wear life but a less aggressive material. Performance suffers in wet or high humidity conditions. Often used on rough surfaces or high-temperature environments because of its toughness and long wear characteristics. |
| Polyester | Polyester has a long wear life like nylon, but performs better in wet conditions. |
| Polypropylene (Poly) | Good sweeping performance indoors or outdoors, including damp and high humidity areas. Not recommended for very high temperature applications. Sometimes called "Proex." |
| Natural Fiber & Wire | Good material for sweeping impacted soilage with small particulates, but has a shorter wear life compared to other materials. |
| Poly & Wire | Excellent general-purpose sweeping ability and dust control for indoor and outdoor applications. Wire provides improved performance on impacted soilage, but should be avoided on delicate floors. |
| Crinkle Wire | Special purpose fill material for applications with impacted soilage but little dust. |
| Flat Wire | Used only on side sweeping brushes. This material aggressively digs debris away from the edges of buildings and curbs. |

*Sorted in order of aggressiveness






Sweeping Brush Life Calculator:

Find the fill material your customer uses now in left-hand column and the fill material they are considering in the top row – multiply the intersect number by the number of hours their current brush fill material lasts.

| Brush Material | Nylon | Polypropylene | Crinkle Wire | Wire/Fiber | Natural Fiber |
|----------------|-------|---------------|--------------|------------|---------------|
| Nylon | 1 | 0.74 | 0.48 | 0.43 | 0.38 |
| Polypropylene | 1.35 | 1 | 0.64 | 0.58 | 0.51 |
| Crinkle Wire | 2.08 | 1.54 | 1 | 0.89 | 0.79 |
| Wire/Fiber | 2.32 | 1.74 | 1.11 | 1 | 0.88 |
| Natural Fiber | 2.63 | 1.94 | 1.26 | 1.13 | 1 |

Note: Resulting wear life will be an estimate. Brush wear life must be balanced with expected debris pick up efficiency. Brushes should be chosen based on their ability to meet the expectations resulting from the three "Considerations" highlighted at the top of this page.

Sweeping Brush Patterns:

| | | |
|---|---|--|
|  | 6 or 8 Double Row | A very versatile brush pattern that works well in many applications. Rows of bristles pick up small particulates while spaces between rows trap bulky litter. This pattern is available with all of the fill materials listed above. |
|  | Full Fill | For applications with light to moderate accumulations of sand and small particulates, but not bulky litter. |
|  | Sand Wedge <i>*Patented</i> | This brush has the same amount of fill material as a full fill brush but the pattern features a zigzagged “wedge” of open space, which cuts into deep accumulations of sand or other small particulates. |
|  | Window Brush <i>*Patented</i> | Effective on light litter, such as small scraps of paper, that can be difficult to pick up, especially on smooth floors. Its open “window” traps light litter. |
|  | Patrol Brush | Designed for high-speed sweeping, such as in parking lots. The wide spaces between rows grab bulky litter at accelerated sweeping speeds. |

Tennant Advantage:

The Sand Wedge and Window brush patterns are patented Tennant technologies. If your customer's application can be cleaned best using one of these patented brushes, you can offer a solution that the competition cannot match.

Tips on Improving Sweeping Brush Life:

1. Set the main brush adjustment so bristles buff a 2 in (5 cm) wide swath when contacting the floor.
2. Use the restricted down position whenever possible. Failure to tighten the height adjustment knob greatly accelerates brush wear.
3. Adjust side brush so the only bristles contacting the floor are from 10 o'clock to 4 o'clock as you look down on the brush from above.
4. Check brush wear every cleaning shift by using our patented brush wear indicator.
5. Rotate brush end-for-end after each 24 hours of sweeping. This ensures the brush will wear evenly and prevents bristles from developing a bend, or “set,” in one direction. This also ensures the bristles wear evenly across the entire length of the brush.
6. When rotating, remove any wire, string, or banding material that may have become caught in the brush.
7. Store brushes on end rather than on their sides.
8. Raise brushes before travel from one area to another. This eliminates unnecessary wear from dragging the brushes.
9. Keep brushes in the up position when the machine is not in use to prevent the weight of the brush from causing the bristles to develop a bend or “set.”