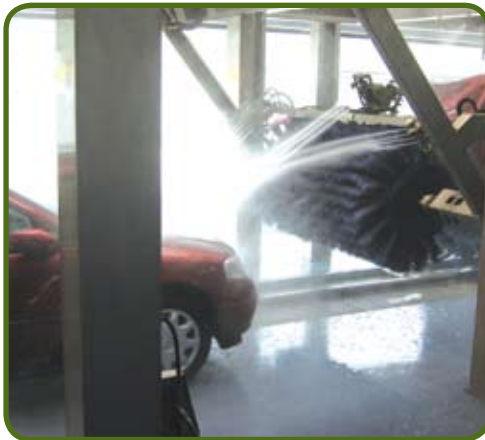


Tunnels



Compared to other wraps that are mounted on the floor outside of the vehicle and require complex controls, SoftLine wraps are anchored at the top of the frame and leverage simple geometry to move unassisted over the car.



Optional high pressure blasters mounted above the top brush contour the car to loosen dirt and grime at close range before brushing.

SoftLine™: The Best of European and American Tunnel Technology

The tunnel market is hot. Thanks to new technologies that eliminate most of the labor previously required to deliver a clean/shiny/dry vehicle, the low price/high volume express exterior business model is taking the country by storm. But smart operators know that there's still demand in most markets for the extra services offered in a flex-serve or full-serve format, and they carefully evaluate their market and their competition before deciding which business model is most appropriate for their sites.

Regardless of the business model, Mark VII can match the needs of any site while providing customers the results they want and driving down costs for the operator. Our SoftLine tunnel equipment combines Mark VII's 40+ years of touch-free carwash engineering with our parent company WashTec AG's 40+ years of friction carwash engineering into a complete line of components that can be customized to meet the needs of any tunnel application.

The SoftLine Brush Station: Multiple, integrated cleaning processes in one simple, easy-to-maintain unit

The cleaning effectiveness of any tunnel component boils down to two key factors: coverage and contact time. Whether you're talking about foam bath, wheel cleaners, high-pressure arches or brushing devices, it's all about how well they cover the car and how much time they spend doing it.

When it comes to brushing, nothing cleans like the SoftLine Brush Station. It combines a foam top brush with simple and effective side wraps that achieve maximum contact with all vehicle surfaces. Add optional rocker panel brushes and contouring high-pressure blasters, and you have a highly integrated set of cleaning components that require only 22.5' of tunnel length to effectively clean the car.

SoftLine offers your choice of soft cloth or proprietary SofTecs® closed cell foam material to safely and effectively remove the toughest dirt and road grime. Currently in use on over 30,000 tunnel and rollover systems worldwide, SofTecs is specially formulated to shed water and dirt to protect even the softest vehicle finishes.

The top brush, using a simple and effective counterweight system and shock absorbers to control movement, engages the front of the vehicle as it approaches. Optional high-pressure blasters mounted above the top brush contour the car to blast the front, top and back surfaces at close range as the brush passes. While the top brush completes its work on the back half of the car, overhead-mounted side wraps with long arms overlap in the center of the vehicle

as it approaches. The side wraps move down the sides and overlap at the back of the vehicle, achieving maximum coverage and eliminating the possibility of “skunk stripes.”

SoftLine's Brush Station features include:

- Top brush uses simple counterweight system to ensure safety and eliminate complex controls required for other top brushes.
- Long, overhead mounted vertical arms allow for complete side wrap overlap and elimination of “skunk stripes”.
- Overhead pivot points, dual axle ball bearings and three shock absorbers on top of each wrap provide smooth, constant treatment to front, side and rear surfaces, while maintaining constant contact during travel around corners.
- Pressure on the vehicle is completely adjustable on both the top brush and wraps.
- SofTecs® proprietary closed cell foam, standard on the top brush and optional on the side wraps, is specially formulated to clean thoroughly while shedding water and dirt to protect even the softest finishes.
- 31” Rocker Brushes can be installed completely within the Brush Station footprint for extra cleaning on vehicle sides.
- Hydraulic motors allow rotation speed to be easily adjusted and will automatically stop rotation when an obstruction (e.g. roof rack) is encountered and resume when the obstruction is cleared.
- Cleans 150+ cars per hour without sacrificing wash quality.

SoftLine High-Pressure Arch: Triple cleaning performance front and back for unparalleled prepping or touch-free cleaning

Whether you want to prep without labor prior to brushing in a hybrid tunnel, or you want to clean the car in a complete touch-free tunnel, SoftLine's high-pressure arch is just the ticket. It leverages Mark VII's extensive experience in touch-free rollovers to thoroughly clean of all vehicle surfaces—especially the hard-to-clean front grill and rear license plate area—which provide the biggest challenges to any carwash system.

Here's how it works:

- A dynamic top manifold with 10 zero-degree turbo nozzles lowers to clean the front of the car at the optimal distance as it approaches on the conveyor.
- Simultaneously, dynamic manifolds with 4 zero-degree turbo nozzles on each side of the vehicle extend in front of the car to create a triple cleaning effect on the grill area to blast away bugs and grime.
- As the vehicle gets closer, the side manifolds retract for safety and a second pair of static side manifolds kick in, each using a combination of 7 zero-degree turbo nozzles and 2 special wheel/rocker blaster turbo nozzles at the bottom to provide thorough cleaning of the sides of the vehicle as it passes.
- Simultaneously, the top boom pivots to wash the top of the vehicle as it passes.

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Brush Station Specifications

DIMENSIONS

Length	282"/7.2m
Height	149"/3.8m
Width	151"/3.8m

VEHICLE CLEARANCE

Height	90"/2.3m
Width	100"/2.5m

UTILITY REQUIREMENT

Hydraulic	3-Brush Station 7.5 HP @ 13.5 GPM/51.1 LPM With All Options 12.5 HP @ 20.9 GPM/ 79.1 LPM
Electrical	24 VAC [208-230 VAC, 60Hz 3Ø, 75 AMP for high-pressure option]
Air Compressor	Constant 1.5 CFM/14 CLPM
Water	12 GPM/45 LPM [for high pressure]



SoftLine's High-Pressure Arch with top and side booms extended to clean the grill area as the car approaches.

High-Pressure Arch Specifications

DIMENSIONS

Width	148"/3.8m
Height	107-113"/2.7-2.9m (adjustable for vehicle clearance)
Depth	65"/1.7m (including protruding pneumatic enclosure and entrance eyes)

VEHICLE CLEARANCE

Height	90-96"/2.3-2.4m (adjustable)
Width	104"/2.6m

UTILITY REQUIREMENTS

Electrical	208-230V 60Hz, 3Ø, 100 AMP service
Air Compressor	1.5 CFM @ 60-100 PSI
Water	38.5 GPM/146 LPM

 **MARK VII**
It's not about the carwash,
it's about the carwash business.



Wheel Brushes extend on both sides to address hard-to-clean wheel surfaces and rocker panels.

- As the car exits the arch, the top boom and nozzles lower, the top nozzles pivot to wash the back of the vehicle and the dynamic side booms extend again and pivot their nozzles to provide the same triple cleaning effect on the rear of the car.
- A 30 HP pumping plant in the back room delivers up to 1,000 PSI/70 bar of pressure to support the entire process.

Wheel Brush: Clean Wheels = Happy Customers

Dirty wheels are a challenge for any carwash, and they're a common customer complaint when they don't come out clean. SoftLine's solution is our unique Wheel Brush, which uses a pair of 96" long brushes (lubricated by an on-board manifold) with alternating 16" and 14" diameter sections of brush material to reach deep into all the convoluted wheel surfaces found on vehicles. As an added bonus, they provide extra treatment of the rocker panels to enhance the cleaning of the lower sides of the vehicle.

Wheel Brush Specifications

DIMENSIONS

Length	122"/3.1m (retracted), 157.5"/4m tunnel length required for full extension (can be mounted partially under Brush Station to save 2' of space)
Brush Length	96.5"/2.5m
Width	29"/737mm each side (retracted)
Height	22"/559mm

UTILITY REQUIREMENTS

Electrical	208-230/460 VAC 60Hz, 3Ø, 20/10 AMP service
Air Compressor	0.5 CFM @ 72-87 PSI
Water	6 FPM @ 29-43 PSI

Chemical Application, Wheel Cleaning, Finishing and Drying

In addition to the "heavy lifting" performed by the Brush Station, dynamic High-Pressure Arch, and Wheel Brush, SoftLine includes a full complement of components to build out your tunnel including:

- Controller
- High-pressure prep station
- Presoak arch
- Optional entrance/merchandising sign package
- Tire chemical applicator
- Tall side washers
- Triple foam arch
- Flood arch
- High-pressure rinse arch
- Drying agent arch
- Total protectant arch
- Spot-free rinse arch
- AquaDri® air dryers
- Rotating cloth dryer
- Tire shiner
- Self-pay stations
- Water softeners
- Spot-free rinse systems
- Reclaim systems
- Air compressors
- Chemicals
- Vacuums