



→ Tunnel Equipment

**SoftLine®**



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

 **MARK VII®**

# *State-of-the-art tunnel equipment from the global leader in vehicle cleaning systems.*



## **SoftLine®**

**A fusion of European  
and American tunnel  
technology**

- Complete line of tunnel components for express, flex-serve and full-serve formats
- Leverages German and American engineering proven at over 1,400 tunnel carwashes worldwide
- Adds new technology to enhance wash quality and customer satisfaction while generating incremental revenue for the operator
- Engineered and manufactured in the USA to achieve the lowest total cost of ownership

# *SoftLine Dynamic High Pressure Arch: Prep vehicles without labor or wash completely touch-free.*

## Front high pressure



→ Dynamic top and side manifolds loaded with 18 zero-degree turbo nozzles extend to thoroughly clean the front of the vehicle.

## Top high pressure



→ Dynamic manifolds retract and the top manifold continues washing horizontal surfaces with 10 turbo nozzles.

## Side high pressure



→ Static side manifolds, each with 7 turbo nozzles and 2 integrated rocker blasters, wash the sides of the car while it's pulled past.

## Rear high pressure



→ Dynamic top and side manifolds extend again to wash the rear of the vehicle, then pivot into position to wash the front of the next vehicle.

## Dynamic High Pressure Arch Specifications

### → Arch Dimensions:

Height: 107.0" / 271.8 cm  
Width: 148.3" / 376.7 cm  
Depth: 58.0" / 147.3 cm

### → Vehicle Clearance:

Height: 90-96" / 228.6-243.8 cm (adjustable)  
Width: 104.0" / 264.2 cm

### → Electrical:

208-230VAC, 60Hz, 3ø, 75A  
460VAC, 60Hz, 3ø, 35A  
380-415VAC, 50Hz, 3ø, 36A

### → Water Demand:

Minimum pressure: 50 PSI / 3.5 bar  
Maximum pressure: 80 PSI / 5.5 bar  
Demand: 38.5 GPM / 145.7 LPM

### → Air:

Line: 3/8" / 9.5 mm  
Minimum pressure: 80 PSI / 5.5 bar  
Maximum pressure: 150 PSI / 10.3 bar pressure  
Demand: Constant 1.5 CFM / 42.5 LPM

### → Pumping Plant:

Height: 76.0" / 193.0 cm  
Width: 40.0" / 101.6 cm  
Depth: 39.0" / 99.0 cm  
Output: 1,000 PSI / 70 Bar

# *SoftLine Brush Station: Gentle and effective cleaning using our SofTecs® foam technology.*

## **Soft-touch on top**



→ The top brush combines air cylinders with a simple and effective counterweight system to ensure safety and eliminate complex controls required for other top brushes.

## **Built-in protection**



→ Large "fingers" allow the foam to safely move over roof racks without snagging.

## **Soft-touch on all vertical surfaces**



→ Wrap-arounds with overhead pivot points provide smooth, constant treatment to front, side and rear surfaces, maintaining constant contact during travel around corners and overlapping completely front and back.

## **Easy to maintain**



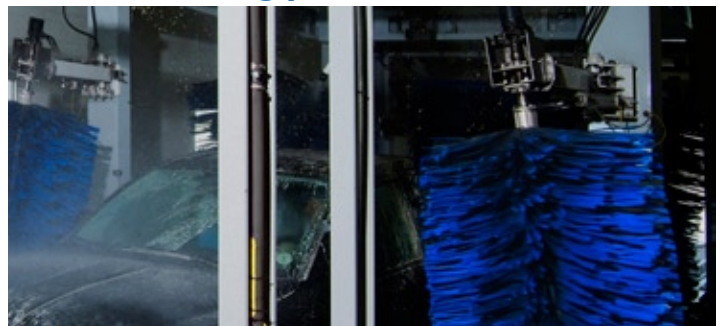
→ Dual axle ball bearings and three shock absorbers on top of each wrap are easier to adjust and less costly to maintain than other wrap-arounds using powered movement.

## **Safe for all vehicle finishes**



→ Our patented SofTecs® closed cell foam material, specially formulated to shed water and dirt while removing the toughest road grime, is currently in use in over 30,000 WashTec and Mark VII tunnel and rollover systems worldwide. Customers prefer the quiet SofTecs experience to the loud, aggressive sound of other brush materials.

## **Added cleaning power**



→ Tall Side Brushes can be installed completely within the Brush Station footprint for extra cleaning on vehicle sides without requiring additional conveyor length.

# SoftLine Brush Station: Gentle and effective cleaning using our SofTecs® foam technology.

## Even more cleaning power



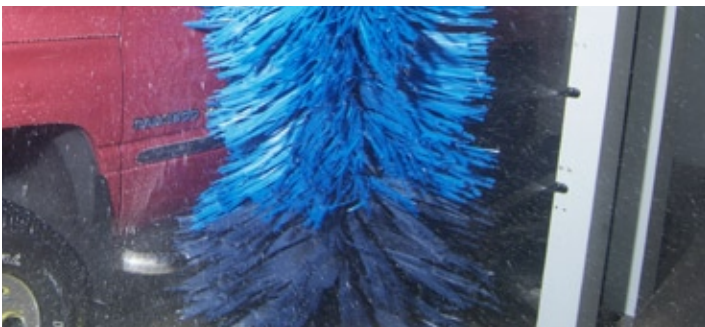
→ Optional grill brushes can be added to the exit end of the frame to apply extra cleaning power to the grill and front corners of the vehicle.

## Total control



→ Hydraulic motors allow rotation speed to be easily adjusted and will automatically stop rotation when an obstruction is encountered and resume when the obstruction is cleared.

## Brush lubrication



→ All brushes are constantly lubricated via frame-mounted spray manifolds, ensuring the SofTecs® foam glides smoothly over vehicle surfaces while safely removing dirt and road grime.

## Wash more with less



→ A top brush, wheel/sill brushes, side wraps, tall side washers, and grill brushes can all be condensed into just 29 feet of conveyor length, allowing you to produce up to 150 clean and shiny cars per hour. Triple foam applicators can be added to the brush station frame to drive incremental revenue while saving the space required for a separate triple foam arch.

## Brush Station Specifications

### → Dimensions:

Length: 192" / 4.9 m (at floor level)  
279" / 7.1 m (overhead including  
top brush counterweights)

Height: 137" / 3.5 m  
Width: 58.0" / 147.3 cm

### → Vehicle Clearance:

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

### → Electrical:

208-230VAC, 60Hz, 3 $\phi$ , 29A  
460VAC, 60Hz, 3 $\phi$ , 15A

### → Air:

Constant 1.5 CFM / 14 LPM

### → Water:

12 GPM / 45 LPM

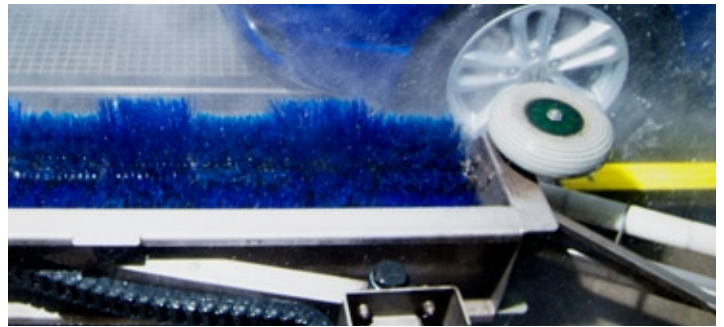
# *SoftLine Wheel/Sill Brush: Thorough cleaning of **EVEN** the most intricate wheels.*

## Simple operation



→ Simple, reliable air cylinders push the brushes into the wheels of the approaching vehicle.

## Built-in safety



→ UHMW guide rollers guide the brush into the proper position and rubber wheels provide backup protection for painted surfaces.

## Cleaning power



→ Heavy duty electric motors rotate the 96"/244cm long brushes against the wheels as they're pulled along the conveyor, providing full 360° cleaning power.

## Brush lubrication



→ On-board spray manifolds with optional chemical application lubricate alternating 16"/41cm and 14"/36cm diameter brush sections to scrub dirt and road grime from the wheels and sills.

## Wheel/Sill Brush Specifications

### → Dimensions:

Height: 21.5" / 54.6 cm

Length: 158" / 401.3 cm

Width: 140" / 355.6 cm (retracted)

174" / 441.9 cm (extended)

### → Vehicle Clearance:

Maximum Width: 94.5" / 240.0 cm

### → Electrical:

208-230VAC, 60Hz, 3ø, 8A

460VAC, 60Hz, 3ø, 3.7A

### → Water:

Minimum Water Feed Pressure: 50 PSI / 3.5 bar

Maximum Water Feed Pressure: 80 PSI / 5.5 bar

Demand: 4 GPM / 56.8 LPM

### → Air:

Minimum Pressure: 3/8" line with 80 PSI / 5.5 bar minimum

Maximum Pressure: 150 PSI / 10.3 bar maximum

Consumption: 1.5 CFM / 43 liters / min constant

# *SoftLine low and medium pressure arches: Innovations that separate you from the competition.*

## Presoak



→ The first set of nozzles of the Bi-Directional Presoak Arch are angled toward the front of the approaching car to ensure complete presoak coverage of the grill area, then the second set of nozzles activates to cover mirrors and sides of the car, as well as providing complete coverage of the back of the car as it exits the arch.

## Triple-foam



→ Triple-foam detergent or conditioner products provide a colorful show to the customer, and this popular revenue-enhancing upgrade can be applied via either a standalone arch or a delivery system attached to the frame of the Brush Station.

## Flood rinse



→ Boosted-Pressure Flood Rinse Arch thoroughly rinses vehicles in less time and at higher line speeds than typical low pressure rain arches.

## Finishing



→ Single (shown here) and Dual Wax Arches make it easy to apply drying agents, total surface protectants and spot free rinse in a minimal amount of space.

## Low & Medium Pressure Arch Specifications

| Component                            | Air Supply | Water Demand | Electrical Demand                                    |
|--------------------------------------|------------|--------------|--|
| Bi-directional Presoak Arch          | 40-100 PSI | 11 GPM       | N/A  |
| Single Wax and Foaming Wax Arches    | 20-100 PSI | 5 GPM        | N/A  |
| Dual Wax and Dual Foaming Wax Arches | 20-100 PSI | 10 GPM       | N/A  |
| Triple Foam Arch                     | 20-100 PSI | 15 GPM       | N/A  |
| Boosted Pressure Flood Rinse Arch    | N/A        | 58 GPM       | 208-230VAC, 60Hz, 3ø, 30Aa<br>460VAC, 60Hz, 3ø, 11A  |
| Final (RO) Rinse Arch                | N/A        | 20 GPM       | 208-230VAC, 60Hz, 3ø, 3.2A<br>460VAC, 60Hz, 3ø, 1.4A |

# SoftLine Drying Systems: Modular design for complete flexibility and optimum drying results

## Modular design



→ SoftLine dryers leverage a modular arch system and a choice of 10hp or 15hp producers to match the available space and line speeds of your tunnel.

## Powerful airflow



→ Tapered nozzles provide high velocity airflow to maximize drying results.

## Noise minimized



→ Foam-backed sound dampeners reduce noise, making it easier to satisfy local ordinances.

## Intelligent design



→ Strategically-positioned blowers leverage fluid dynamics and the target line speed to push water from the center to the edges, then down the sides and off the vehicle.

## Specifications

### → Arches:

Height: 137" / 347.9cm  
Width: 151" / 383.9cm  
Depth: 40" per arch

### → Vehicle Clearance:

Height: 87.75" / 222.9cm  
Width: 94.5" / 240.0cm

### → Air Speed and Flow (measured at 5,550 above sea level):

15HP producers: 155MPH air speed, 5,900CFM air flow  
10HP producers: 145MPH air speed, 3,800CFM air flow

### → Electrical:

15 HP Producers:  
208-240VAC, 60Hz, 3 $\phi$ , 38A per producer  
460VAC, 60Hz, 3 $\phi$ , 18A per producer  
380-415VAC, 50Hz, 3 $\phi$ , 23A per producer

10 HP Producers:  
208-240VAC, 60Hz, 3 $\phi$ , 32A per producer  
460VAC, 60Hz, 3 $\phi$ , 13A per producer  
380-415VAC, 50Hz, 3 $\phi$ , 16A per producer

# SoftLine Conveyor and Ancillary Products: Everything you need to KEEP your profits flowing

## A reliable and easy-to-maintain workhorse



→ The conveyor is the backbone of your tunnel, and the SoftLine conveyor is engineered for reliability to keep your tunnel up and running. Constructed of high quality steel with a 1/2" top plate and 3/8" frame, the SoftLine conveyor utilizes high-visibility UHMW rollers and protective coverings on both guide rails to ensure that even vehicles with misaligned wheels roll safely through the tunnel.

## Flexibility to choose

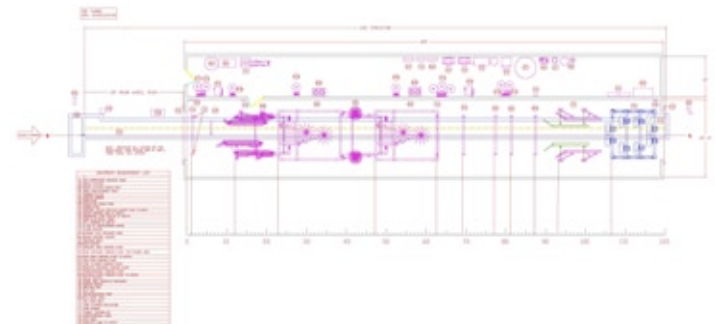


→ Configure your conveyor with your choice of C78, D88K, X458 or log chains and either a painted or galvanized frame. All profiles of wheels and tires are accommodated in your choice of front wheel pull or rear wheel push format, plus you can choose between hydraulic or electric drive and air or spring take-up to suit your needs and preferences.

## Ancillary products

- Controller
- Tire chemical applicator
- High pressure wheel blaster
- Tire shiner
- Self-pay stations
- Water softeners
- Spot-free rinse systems
- Reclaim systems
- Air compressors
- Vacuums
- Chemicals
- Bay doors
- Bay heating systems

## Site planning services



→ Careful planning is the key to the success of your carwash, and Mark VII is there to help you every step of the way. From conducting site surveys, recommending site layouts, and selecting ancillary equipment to planning your grand opening event, our role is to help you optimize your facility to match your goals and your business model. Starting from our wide selection of standard layouts, our Applications Engineers customize site plans and bay layouts to maximize utilization of available space while staying within the budget for your tunnel project.

# Mark VII + WashTec: Your ideal business partners.



Mark VII is the U.S. subsidiary of WashTec AG, the world's leading supplier of vehicle washing equipment. Headquartered in Augsburg, Germany, WashTec sells equipment in over 60 countries. Our technology is used to wash over two million vehicles daily in over 30,000 rollovers, 1,400 tunnels and 2,650 commercial vehicle washes worldwide.

Mark VII's products and services include:

- AquaJet XT® touch-free rollover
- SoftWash XT® soft-touch rollover
- TurboJet XT™ touch-free overhead/inverted L
- SoftLine® soft-touch, touch-free and hybrid tunnel
- JetWash™ self-serve
- AquaFlex® chemicals
- Ancillary products (entry systems, water treatment systems, etc.)
- Site selection assistance
- Custom site and bay layouts
- Service contracts
- Technical support
- Wash bay refurbishment



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