COLEMAN HANNA CARWASH SYSTEMS LLC
AN O'HANRAHAN COLEMAN COMPANY

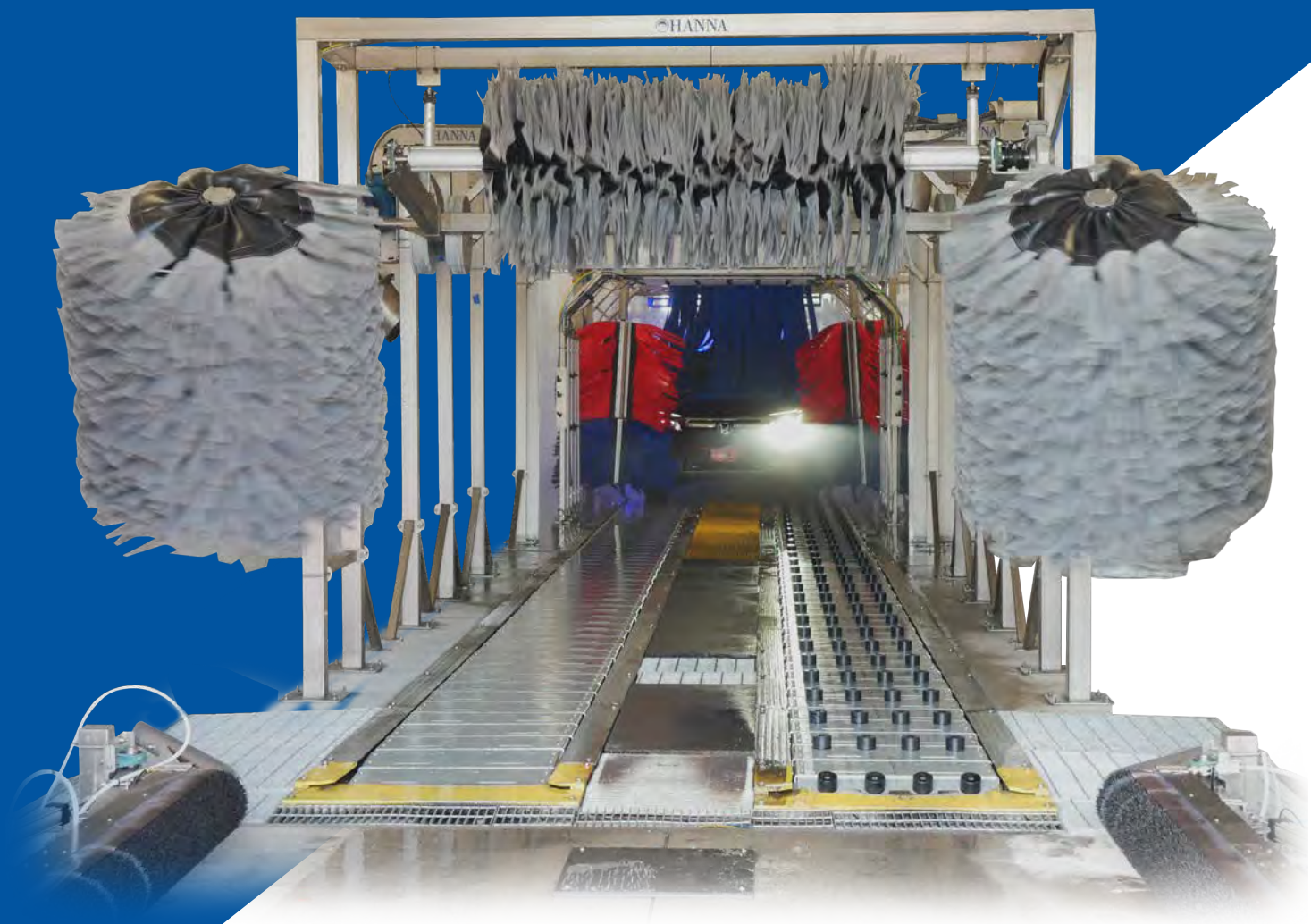
Quality Car Wash Equipment
For Over 60 years

MADE IN USA

STAINLESS STEEL

CONVEYOR SYSTEM COMPONENTS

Industry Innovators since 1959



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HANNA'S C-3 CORRELATOR PROVIDES TROUBLE FREE ALIGNMENT OF VEHICLES AS THEY ENTER ONTO THE CONVEYOR SYSTEM.

The front and rear wheels of a vehicle have 12 inches of lateral movement, ensuring proper alignment onto the conveyor. The **C-3 Correlator** is designed for years of reliable performance. It is manufactured using solid steel construction and has eighteen cast iron wheels supporting a spring loaded spring loaded top deck.

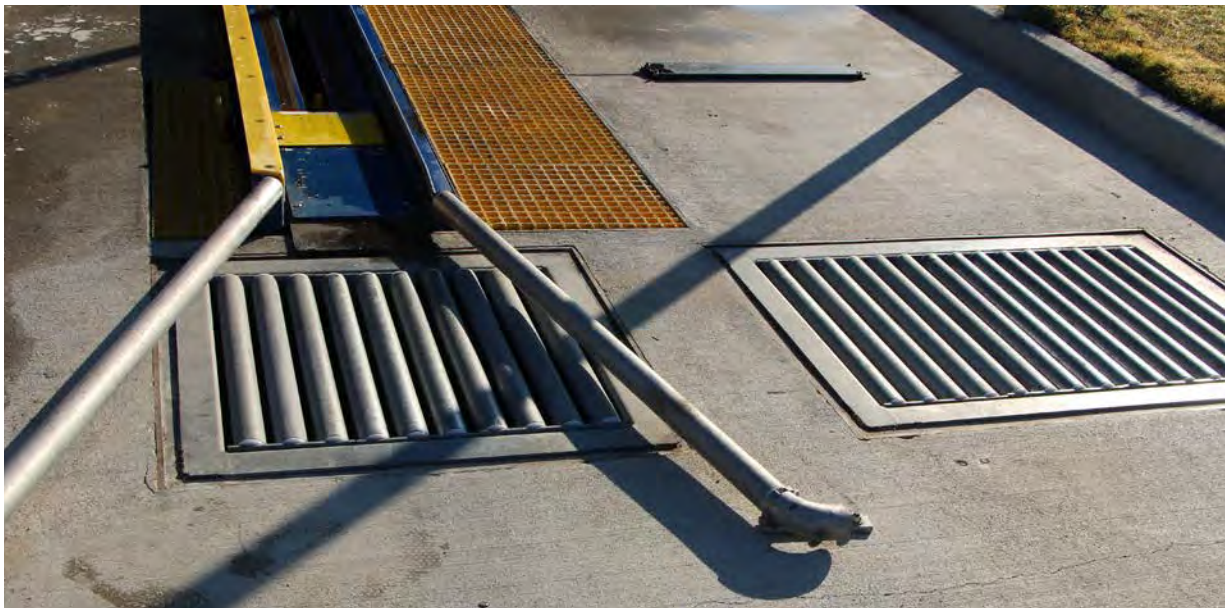
Designed for safety as well as function; the 3 foot wide by 12 foot long heavy gauge diamond plate steel top plate design reduces the potential for customer and operator incident. The wide design provides for virtually any vehicle size and shape, while the low profile allows for minimum installation preparation.

STANDARD DIMENSIONS:

- **Width:** 12' (366 cm)
- **Length:** 3' (91 cm)
- **Height:** 6" (15 cm)
- **Standard Clearance:** 90" (229cm)
- **Optional Clearance:** 96" (244cm)

CONSTRUCTION:

- Heavy gauge steel painted
- Diamond plate, spring loaded top deck
- 18 cast iron support wheels
- 12" (30.48 cm) maximum lateral movement
- Optional: Galvanized Steel

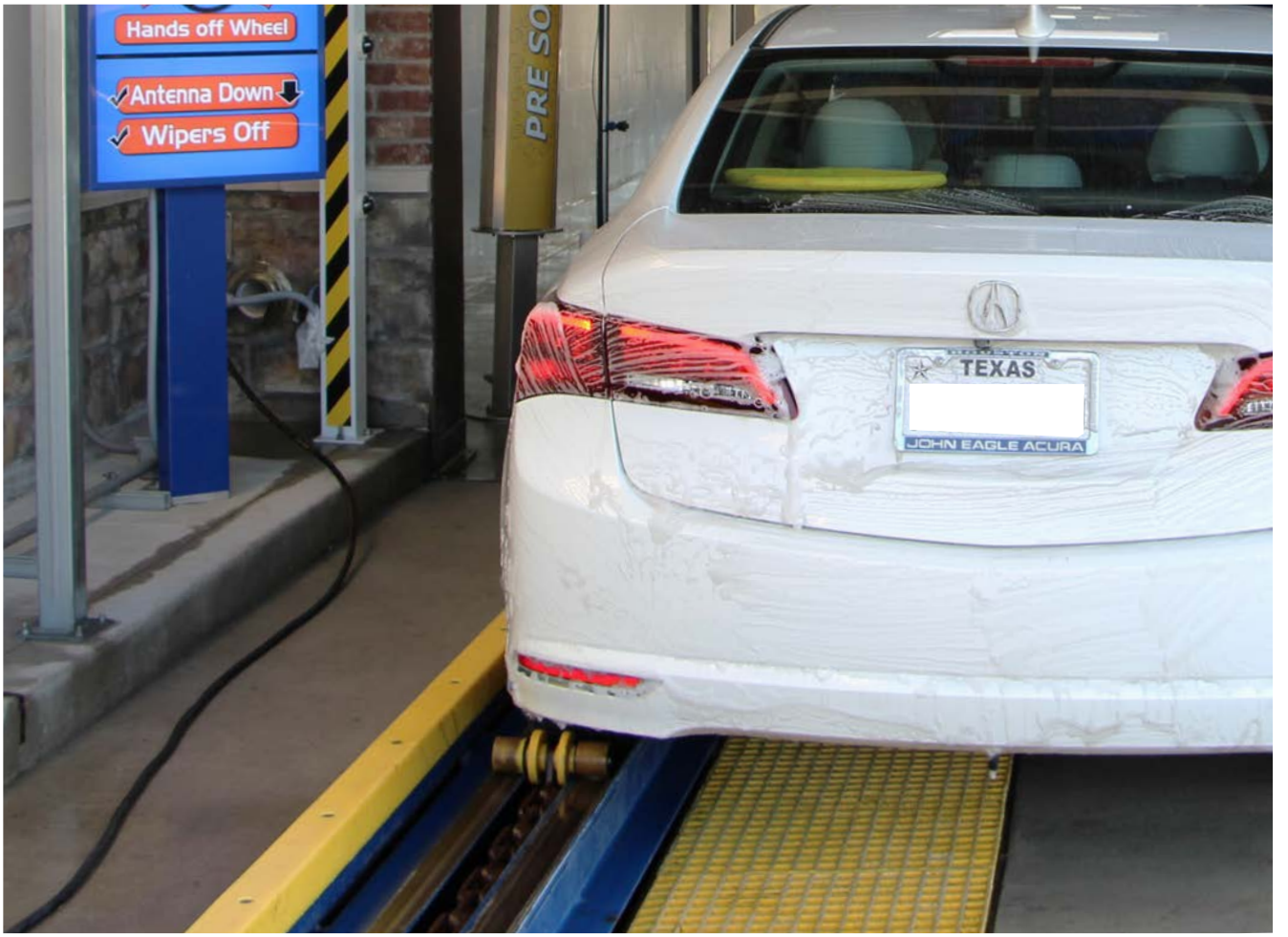


Hanna's Roller Correlator ensures the vehicle enters the conveyor properly using yellow UHMW Rollers or Galvanized Steel Rollers. Upgrade an existing C3 Correlator to the new roller design to improve functionality. The C3 Design frames include yellow fiber glass grating to complete the conveyor.

FEATURES:

- Yellow UHMW Rollers or Galvanized Steel Rollers
- Upgrade your existing C3 correlator to the new Roller Correlator design
- The C3 Roller Correlator frames include yellow fiberglass grating.
- Easy to replace rollers if needed!

WITH THE C-3 CORRELATOR AND ROLLER CORRELATOR, COLEMAN HANNA PROVIDES ALL THE BEST SELECTION FOR YOUR CUSTOMIZED TUNNEL SYSTEM!



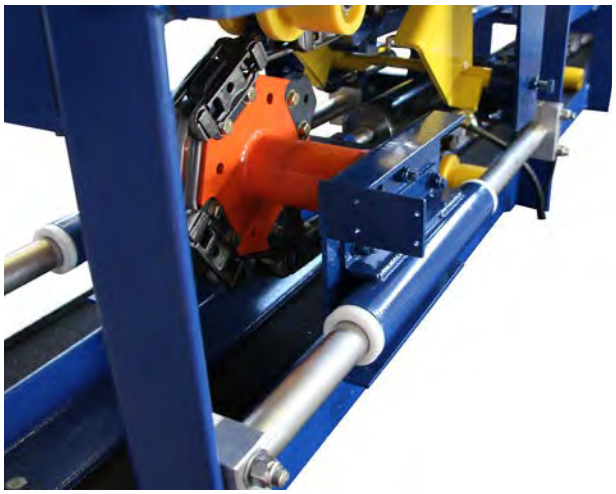
Hanna designed and built the first legendary **RCV (over & under on demand) conveyor** in the world in the 1960's and held the original patents for the design. Most conveyors in the market today are some form of a copy of that conveyor.

Today's **RCV conveyor** built by Coleman Hanna Carwash Systems continues the legacy with new and innovative ideas that provides the motorist and entrepreneur with a safe and effective way of conveying the vehicle through the different types of wash systems.

Today's designs include the safety features of the **EZ-Up Door™** and the **Disappearing Exit Door™.** The Hannatron™ cover on the outside guide rail provides a clean slippery surface to help protect wheels and tires. Also, the addition of the anti-jam forks adds to the overall reliability of the conveyor. The entrance rails have been widened from the standard 13" width to 16" for ease of entry. ***The RCV Conveyor comes standard with the 88k chain and you have the option to upgrade to X-458 or SC-78 log chain.*** Similarly, the standard 13" width is now available in 14" width. An optional removable tooth sprocket is available which will fit future changes and accommodate your choice of two, four, or six wheel pushers. Lastly, a Smooth Glide Takeup has been added to provide a constant chain tension for all conveyor lengths.

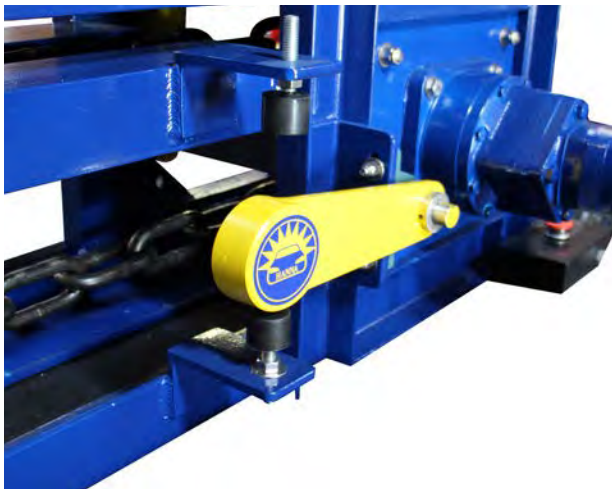
FOR THE LATEST IN CONVEYOR TECHNOLOGY, TRUST THE YEARS OF EXPERIENCE AND KNOWLEDGE OF HANNA!

CONVEYOR SAFETY FEATURES AND OPTIONS



SMOOTH GLIDE TAKEUP

ANTI-JAM FORKS



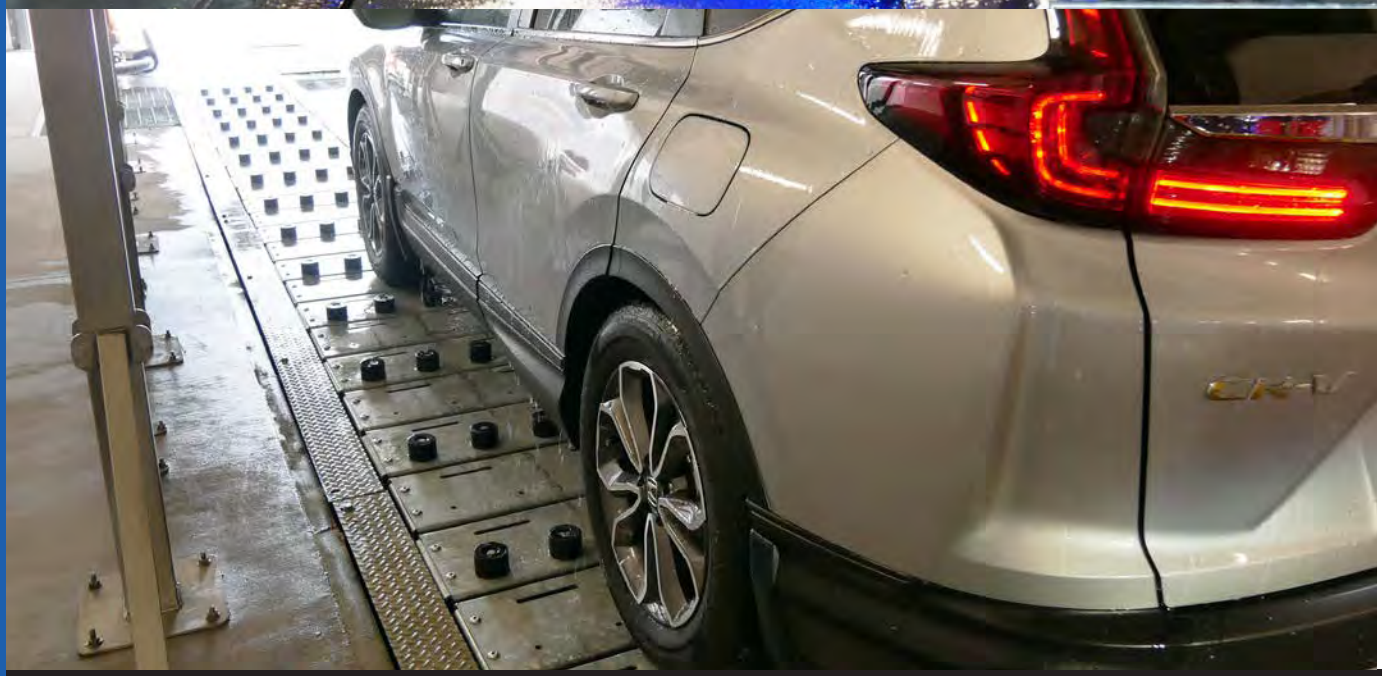
LEVER FOR DISAPPEARING EXIT DOOR™

DISAPPEARING EXIT DOOR™

WIDER ENTRANCE RAILS - FROM 13” TO 16”

EZ-UP ENTRANCE DOOR™

POSITRACK AKA 'THE BEAST' BY HANNA



FEATURES

- Plated chain
- Large heavy duty sprocket
- Easy loading and off loading from Positrack conveyor
- Stainless Steel drip pans to channel the mud and water toward the drain
- 2" tall UHMW hockey puck to push the vehicle off the conveyor
- Designed to fit existing 21" deep conveyor pit subject to certain specification
- Less maintenance than a plastic belt conveyor since the vehicle is not being dragged by a plastic belt on a wear plate

CREATE THE BEST CUSTOMER FIRST IMPRESSION WITH THE COLEMAN HANNA GRAND ENTRANCE ARCH!™

Make a great start to their first impression of your wash by adding the **Grand Entrance Arch™** by Coleman Hanna Carwash Systems. The Grand Entrance Arch™ provides a professional and modern look that will attract and impress customers even from far away.

Not only will it dazzle your customers, the arch will inform them of vital conveyor instructions and confirm the wash package purchased. Customers will be welcomed with a professional, clear and crisp, LED backlit sign that clearly confirms their purchase and delivers the instructions of your choice. The package of their choice is illuminated and the instructions are cycled allowing your employee to direct the customer's attention to them.

A NEW LOOK HAS NEVER BEEN SO EASY!

The arch graphics are custom designed to promote your brand in a professional manner that is precise and attractive to your customer. The panels can be easily removed and changed to a new message when an update is needed.

SPECIFICATIONS:

- All Stainless Steel Construction with Lexan panels
- Attractive graphics on Lexan Panels
- 12 VDC LED's behind the Lexan panel to back light the graphics
- Right hand side serves as a confirmation arch to show customer the wash package purchased.
- Left Hand side of arch serves as instructions to customer for proper way to enter tunnel
- Custom Graphics Available on Arch
- Send us your digitized logo to be added to your Grand Entrance Arch
- **Outside Dimensions:** 10'-2" high x 13'-1" wide
- **Inside Dimensions:** 8'-1" high x 9'-1" wide
- Clearance: 96"

FOR A SIMPLER, MORE ECONOMICAL ENTRANCE ARCH CONSIDER THE STAINLESS GRAND ENTRANCE ARCH!

The Stainless Steel Grand Entrance Arch is constructed of stainless steel with 4 LED lights to indicate the customer's chosen wash package. This arch is available with custom graphics in order to maximize your brand exposure and provide an attractive greeting to your customer.

The left side of the arch details important safety tunnel instructions making it easy for your employees to point out. The right side of the arch has confirmation lights notifying the customer of the wash package they selected and are receiving. This provides confirmation to the customer ensuring they are receiving the package they paid for.

CUSTOM GRAPHICS AVAILABLE.

COMPLETE YOUR MODERN AND BRANDED LOOK WITH THE LED BACKLIT GRAND MENU BOARDS!

Looking for a **menu board** but want one with more pizzazz? Look no further than the Grand Menu Boards. This 8' sign is constructed of a stainless steel frame with LED backlit Lexan panels. Have your menu board customized to fit the theme of your car wash and create a modern look for your whole wash.

The customized Lexan panels are easily replaceable allowing you to change your menu as often as you would like.

The **Grand Menu Board** works great for other information such as monthly pass plans and general car wash rules.

Offer More Ways to Pay with the OptiVA Virtual Attendant Entrance System

Introducing the latest innovation in entry systems: the **OptiVA Virtual Attendant.** The **OptiVA Virtual Attendant** offers your customers More Ways to Pay, 7x24 hosting & support and WashMAX remote management and marketing tools to maximize your profits.

AVAILABLE IN 3 DIFFERENT MODELS:

1) CASHLESS- CODE/CREDIT ONLY
2) SINGLE BILL ACCEPTOR/DISPENSER WITH COIN ACCEPTOR/DISPENSER
3) DUAL BILL DISPENSER, SINGLE BILL ACCEPTOR, OPTIONAL COIN ACCEPTOR DISPENSER

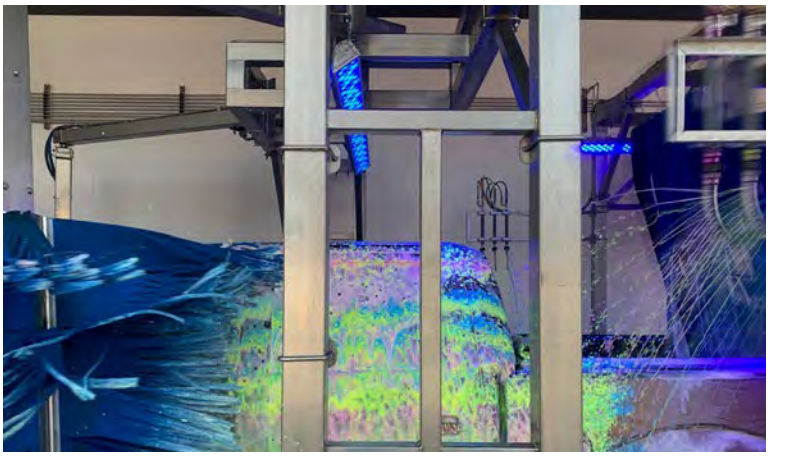
The **OptiVa Virtual Attendant** greets your customer, educates them on key wash benefits and upsells them to a higher ticket price – almost better than if you were doing it yourself!

The **Virtual Attendant** offers a warm and friendly greeting that provides excellent customer experience. Studies show that if a customer is offered a compelling proposition, half of them will upgrade to a higher wash package and an additional service! The **Virtual Attendant** offers your customers *More Ways to Pay* including the new NFC-based contactless credit cards and smart phone based mobile payments including *Apple Pay, Google Wallet, and PayPal Here* with the added security of an *EMV Level 2* certified reader!

PROVIDE THE ULTIMATE SECURITY FOR YOUR CUSTOMERS PAYMENT PROCESSES WHILE OFFERING MORE WAYS TO PAY!

LIGHTS ARE AN EFFECTIVE AND ATTRACTIVE WAY TO ENHANCE YOUR CAR WASH.

Whether you are using on Bingo Signs or Illuminated Arches, rest assured your customers are going to have a great experience!
Grow your business and attract new customers. Illuminate your car wash today!



SAVE CHEMICAL AND CREATE A UNIQUE EXPERIENCE WITH THE FOAMING BUBBLE ARCH.

The **Foaming Bubble Arch** is designed to dispense foam onto the whole vehicle while using less chemical and able to rinse off easier. Optional custom graphics and LED light kit to illuminate the foam creates an eye attracting arch that will keep customer entertained and coming back for more. This stainless steel arch includes a stainless steel tank that holds the liquid above the car. Once a blower is turned on, the arch produces foam to dispense soap, wax or protectants all over the vehicle. ***96" Clearance.***

Attract new customers and increase profits by adding the Coleman Hanna Wall of Foam Arch!

The Coleman Hanna Carwash Systems **Wall of Foam** Arch is a versatile multi-use foam curtain applicator. It can be used to apply foam conditioners for cleaning, foaming polish for shine and protection or a water fall arch for sealing or rinsing.

When used as a foaming arch it utilizes three separate foam generators that adjust the amounts of chemical, water, and air to get the desired foam wetness and the consistency you want. The arch can come with custom graphics that are tailored to your car wash allowing you to promote your brand, a specific use, or a new car wash package.

The Coleman Hanna **Wall of Foam** can be mounted on an existing Versa Arch or can be mounted on the new Horizon arches.

ADD YOUR BRANDING TO THE FUNCTIONAL GRAPHIC ARCH!

MARKET YOUR NEW PROFIT MAKING CENTER WITH CUSTOM, EYE ATTRACTING GRAPHICS!

The **Graphic Arch** is a decorative stainless steel arch that allows the operator the flexibility to select graphics (basic or custom) to aid in the sales of extra services and products.

The **Graphic Arch** has a built in 1 1/2" tubular stainless steel with eleven nozzles and can be fitted with various nozzle kits to deliver foam, presoak or finishing chemicals like drying aid or clear coat. The Graphic Arch can also be used as a high pressure rinse, flood arch, or for a simple entrance arch.

AVAILABLE TO USE AS:

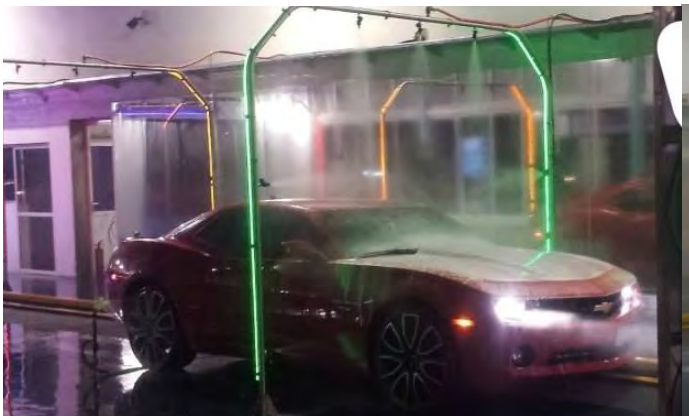
- Foaming Applicator
- Pre Rinse/ Final Rinse
- Cool Down
- Clear Coat
- Drying Aid
- Spot-Free Rinse
- High Pressure Rinse
- Flood Rinse

VERSA ARCH - HANNA'S VERSATILE APPLICATION ARCH

The Hanna **Versa Arch** is the perfect blend of form and function. The solution manifold is constructed from 1 1/2" electro-polished tubular stainless steel formed in the shape of an arch.

The **Versa Arch** can be fitted with various nozzle kits to deliver foam, presoak or finishing chemicals like drying aid or clear coat. The Versa Arch can also be used as a high pressure rinse or flood arch. The Versa Arch offers the car wash operator the flexibility to change with your business needs.

FOR AN UPDATED LOOK CONSIDER ADDING AN LED VERSA ARCH LIGHT KIT!



ADD MARKETING TO THE FUNCTIONAL IMAGE ARCH

Hanna's Image Arch combines an attractive appearance with a functional approach to applying chemical solutions to a vehicle. The arch's stainless steel construction and bright finish compliments any car wash both full service or express exterior. The **Image Arch** is often used as a marketing tool. You can add standard or even custom colored graphics to the arch to add visibility of special products and to help up-selling the consumers.

AVAILABLE CHEMICAL APPLICATIONS:

- Rinse
- Soap Foamer
- Spot Free
- Clear Coat
- Rinse & Soap Foamer
- Final Rinse & Drying Aid
- Clear Coat & Drying Aid

ECONO ARCHES

The Ultimate Economical Application Arch Solution!

- Stainless steel arch serves as both structure and solution manifold.
- Comes complete with header, two legs and all hardware for installation including anchor bolts.
- All nozzle kits come complete with any hardware necessary for adapting this basic arch
- Tunnel wiring is virtually eliminated by using the appropriate solution pump.
- Solution pumping station not included
- Requires a single computer function

All of our types of arches: horizon, image, graphic, and versa arches, can serve as a waterfall arch.

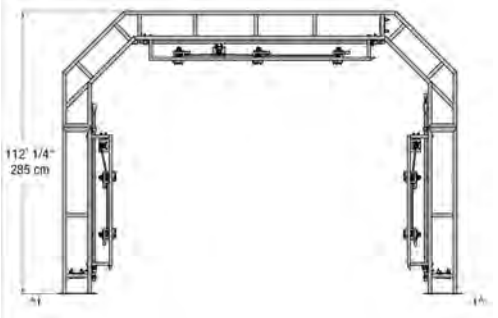
For a custom branded look consider using a graphic arch or image arch. To provide a modern eye-attracting look consider the backlit Horizon Arch. The most practical approach is to use a rinse curtain to apply a spot-free rinse or wax. The Rinse curtain uses gravity to produce a shower of water that provides no misting. It is the best choice in bays with a short drip space or with multiple sets of dryers. This economical rain arch or single manifold comes with up to 3 rows of precision cut holes to provide an even application of water or wax.

FEATURES:

- One size fits all with 96" clearance
- Hanna Rinse Curtain Arch includes a non-functional (no jets) versa arch frame
- Manifold is pre-mounted to the structure header
- Includes a nylon solenoid valve – Not recommended when used with solution pumps
- Requires a single computer function
- Electro-Polish Finish

WATER WIZARD ARCH

The **Hanna Water Wizard™ Arch** combines Hanna and Coleman Hanna technology into a powerful yet cost effective high pressure water applicator. The arch utilizes Hanna's exclusive oscillating spray head with multiple zero degree nozzles. High pressure allows penetration into areas brushes cannot reach like wheel wells, body side moldings and roof racks. The top manifold oscillates left to right and the side manifolds up and down scrubbing the complete vehicle surface. Both top and side manifolds pivot fore and aft to provide high pressure cleaning to the hard to reach front and rear of vehicles. The **Water Wizard™ Arch** can also be used as a pre-wash arch to rinse away dirt, and help loosen stuck on dirt before the wash cycle. This can be helpful for areas with intensely dirty cars from dirt or even snow.



TECHNICAL DATA:

Hydraulic Flow:
3.0 GPM @ 200 PSI (11.4 LPM @ 14 BAR)
Electrical:
60 Watts @ 24 VAC
Air: 0.02 CFM per Vehicle @ 90 PS
Water:
35 GPM @ 1000 PSI (133 LPM @ 69 BAR)
Optional Water Saver Feature:
18 GPM @ 1000 PSI

CONSTRUCTION:

- Stainless Steel Frame
- Optional Stainless Steel "Skins" w/ Graphics
- 96" Vehicle Clearance
- Hydraulic Drive

STANDARD DIMENSIONS:

- Operating Space: 8' (243 cm)
- Width: 157" (398 cm)
- Length: 20" (51 cm)
- Height: 113" (287 cm)
- Clearance: 96" (243 cm)

DESIGN FEATURES:

- Hydraulic driven oscillating motion
- Air operated pivots
- Seven oscillating spray heads
- Zero degree spray nozzles
- Custom graphics available
- Optional: Electric Drive, Water Saving Turbo Nozzles

PACK THE MOST CLEANING POWER WITH THE COMBO WATER WIZARD ARCH!

The **Hanna Combo Water Wizard Arch** provides high pressure wheel washing as well as total vehicle coverage. The Combo unit utilizes Hanna's exclusive spray head with multiple zero degree nozzles to deliver a concentrated blast of water. The Wheel Washer creates maximum impingement and maximizes dwell time through the use a rotating manifold that pivots to follow the front and rear tires. The top manifold oscillates left and right and the side manifold up and down scrubbing the complete vehicle surface. The combo unit is the ideal choice when conveyor space is limited.

CONSTRUCTION

- Stainless Steel Frame
- Optional Stainless Steel "Skins" w/ Graphics
- Hydraulic Drive or Electric Drive

STANDARD DIMENSIONS

- Operating Space: 8' (243 cm)
- Width: 157" (398 cm)
- Length: 20" (51 cm)
- Height: 113" (287 cm)
- Height Clearance: 96" (243 cm)

DESIGN FEATURES

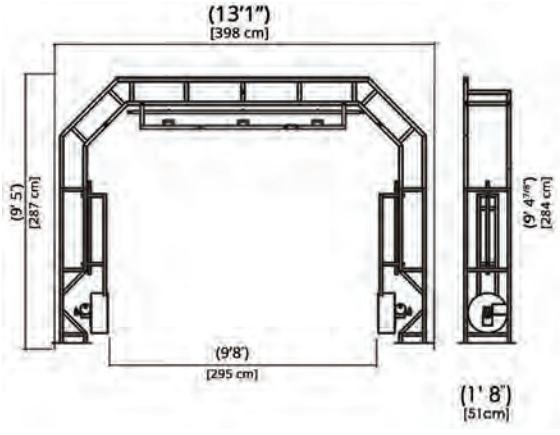
- Hydraulic or electric driven oscillating motion
- Air operated pivots
- Five oscillating spray heads
- Four wheel washing spray heads

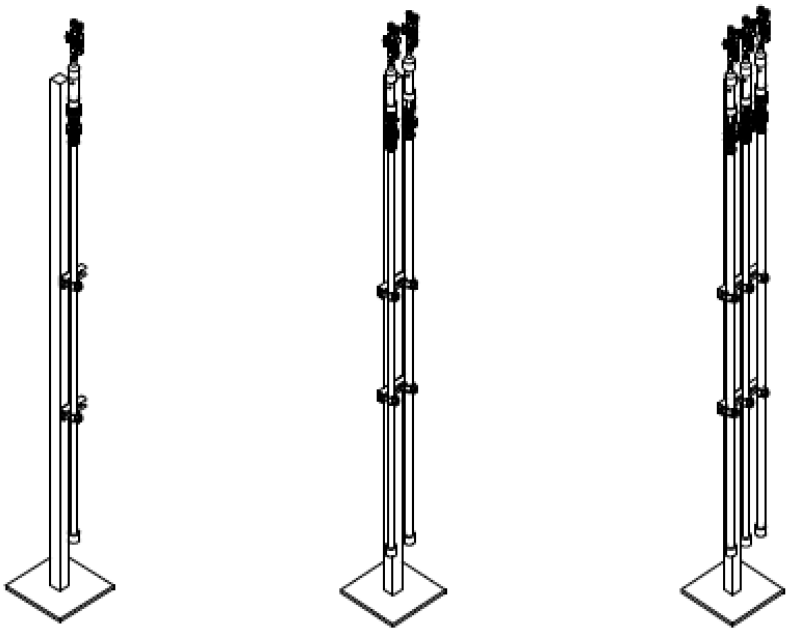
TECHNICAL DATA:

- Hydraulic Flow: 3.0 GPM @ 200 PSI (11.4 LPM @ 14 BAR)
- Electrical: 60 Watts @ 24 VAC
- Air: Less tham 1 SCFM @ 90 PSI
- Water: 35 GPM @ 1000 PSI (133 LPM @ 69 BAR)

OPTIONAL ELECTRIC DRIVE:

- 3 - 1/8 HP Motors Included
- 208/230/380/415 Volt 3-Phase
- .94/.90/.54/.50 Amp Per Motor





The Stainless Steel Foam Applicators have 1-1/4" Stainless Steel tubes that will apply polish or soap foam to the vehicle as it transitions through the tunnel.

Stainless Applicators are freestanding, and come with 2×2 floor mounted post. They are available in single, double or triple.

The **Stainless Steel Foam Applicators** provide a strong, corrosion proof design. When using the double and triple applicators the tubes are staggered to provide even coverage of multi-colored foam. These applicators are designed to enhance the image of your carwash. This helps promote the sale of extra services and increase revenue per car. Pair with in bay tunnel signage such as the Horizon Columns for extra marketing of additional revenue generating services.

FEATURES:

- The freestanding foam applicator consists of two stainless steel floor mount posts.
- The applicators are attached to the post and are height adjustable.
- All manufactured items are stainless steel with polished manifolds.
- Requires one computer function per pair of applicators.

THE HOCKEY PUCK FOAM APPLICATOR IS USED TO APPLY CHEMICAL TO THE HORIZONTAL AND VERTICAL SURFACES OF THE VEHICLE AS THEY ARE CONVEYED THROUGH THE CAR WASH.

Hockey Puck Foamers are very versatile and can be mounted to various pieces of equipment throughout the tunnel system. These applicators allow operators to add revenue enhancing services such as foaming conditioner and triple foam. The Hockey Puck Foamer is available in single, double or triple foam applicators. The specially designed swivel fittings allow for spray pattern adjustment after mounting. The foam is made of a durable polymer in order to make them a wise and cost effective choice for all operators.

FEATURES:

- Durable polymer construction.
- Includes UHMW mounting clamp and mounting bracket for field mounting.
- Swivel fittings allow for spray pattern adjustment after mounting.
- Requires one computer function per pair of applicators.
- Optional offset bracket available, attaches to 4×4 post/ leg for added versatility and mounting options.

QUICK CLEAN FOAMERS

BASIC MIRROR RINSE

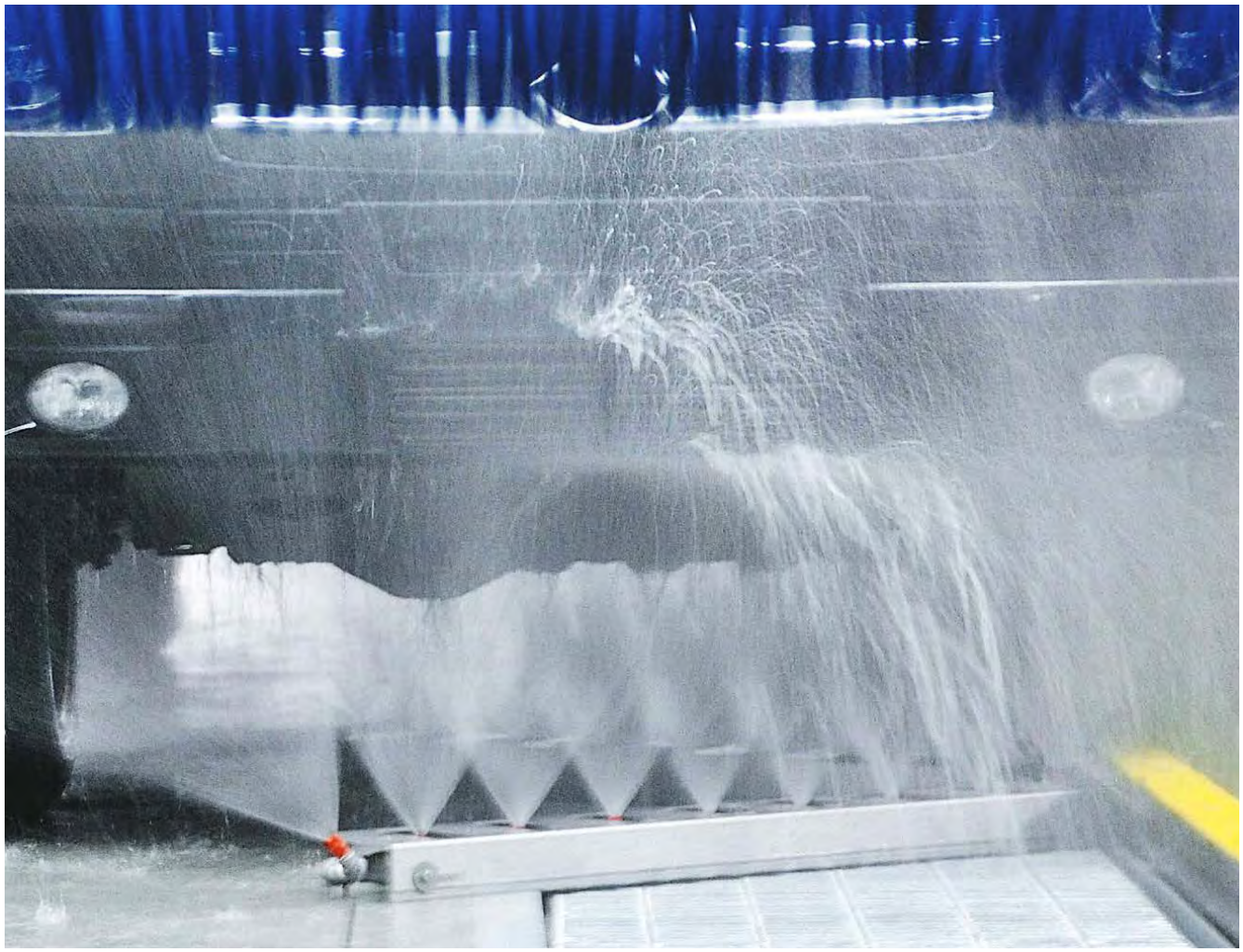
Provide extra attention to mirrors for the ultimate clean!

Tired of customer complaints about soap in the side mirrors? Look no further than the Basic Mirror Rinse or upgrade to the Reflections Mirror Rinse. The Basic Mirror Rinse can be mounted to a Versa Arch, Horizon Arch or Econo Arch. The two K nozzles on each side are adjustable to point to the mirror.

- Stainless steel manifold can be mounted using U bolts to a Versa Arch or Econarch
- Basic manifold comes with two Stainless Steel K Nozzles on each side that are adjustable to point to the mirror.
- Drivers side and Passenger side included
- Water solenoid is not included on basic mirror rinse.

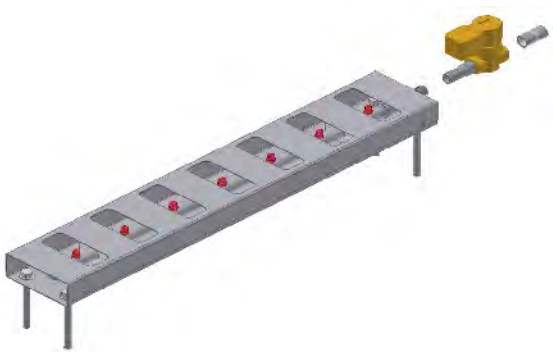
REFLECTIONS MIRROR RINSE

The Reflections Mirror Rinse includes 3 adjustable tips mounted on each side of the vehicle. This system utilizes two eyes to measure the vehicle's position and turns on the right tip at the correct height. The Reflections Mirror Rinse System saves water and ensures that the vehicle's mirror is thoroughly rinsed. This system includes 3 adjustable tips mounted on each side of vehicle, 3 water solenoids, a PLC mounted in a enclosure, and a stainless steel stand to mount the photo eyes.



ENSURE THE UNDERSIDE OF THE VEHICLE IS COMPLETELY CLEAN WITH THE HIGH PRESSURE UNDERCARRIAGE APPLICATOR.

The Undercarriage Applicator uses high pressure water to blast away stuck on dirt on the bottom of the vehicle. This component is essential for fully cleaning the underside of the vehicle. Very few components focus on the undercarriage making this component vital for every tunnel.



FEATURES:

- Stainless steel mounting tray, manifold, and cover
- Seven high volume spray nozzles for maximum undercarriage coverage
- Manifold can be rotated for front grill or rear bumper washing
- Requires a single computer function
- Solenoid valve (included) may be mounted remotely in equipment room
- Requires Solution Pump (not included)
- Recommended For Use with Reclaim Water

FLO JET 5 GPM

The Flo Jet Pump Station mixes and pumps foaming solutions. Uses a G57 air operated FLO-JET to deliver the solution at 5 GPM. For use with the Foaming Tire & Wheel Applicator, Hockey Puck Applicators, and Freestanding Foam Applicators. This pump station automatically controls the solution level and is mounted to a stainless steel wall frame. This system requires 24 VAC electrical power.

FOR USE WITH:

- Foaming Tire & Wheel Applicator
- Hockey Puck Applicator
- Freestanding Foam Applicator

ARO 12 GPM

The ARO Pump Station mixes and pumps foaming solutions for use with the Undercarriage Wash. This pump station automatically controls the solution level and is mounted to a stainless steel wall frame. This system requires 24 VAC electrical power.

FOR USE WITH:

- Undercarriage Applicator
- Wall of Foam
- Chemical Arch Applicators

DOSATRON CHEMICAL DELIVERY SYSTEM

Features and Benefits:

- Stainless Steel Frame
- Dimension of the frame 112” Width x 84” Height x 18” Depth
- 14 gpm Dosatron pump with dilution ratio up to 3000 to 1
- Individual water pressure regulator for each pump to deliver the best application of chemical on the vehicle
- One step chemical dilution.
- Individual air pressure regulator for each application of chemical
- Easy to set up and operate
- Space under the frame to store the chemicals
- Up to 7 Dosatron pumps mounted on the Frame

SUN SEAL®
ULTIMATE CAR CARE PROTECTION™

SOLUTION PUMP RECOMMENDED USE CHART

Applicator	Flojet Pump	ARO Pump	RE2 Dosatron*	RE5 Dosatron*	RE10 Dosatron*	RE1500 Dosatron*
Tire & Wheel Applicator	Best**	NO	YES	YES	YES	YES
Single Foamer	Best	NO	YES	YES	YES	YES
Double Foamer	Best	NO	YES	YES	YES	YES
Double Foamer	Best	NO	YES	YES	YES	YES
Triple Foamer	Best	NO	YES	YES	YES	YES
Soap Foamer Arch	Best	NO	NO	NO	NO	NO
Chemical Solution Noz-zle Kit	NO	Best	NO	NO	NO	NO
Spot Free Nozzle Kit***	NO	NO	NO	NO	NO	NO
Undercarriage Applicator	NO	Best	NO	NO	NO	NO

** Check the dilution ratio with the chart listed below*
*** Check the PH level of your chemical prior to using this pump*
**** Use the Spot Free Pump for this application*

DILUTION RATIO CHART

Pump/Dispenser Type	Capable Dilution Ratio
Flojet Solution Pump	1:4 to 1:240*
ARO Solution Pump	1:4 to 1:240*
Dosatron Model RE 2	1:64 to 1:500
Dosatron Model RE 5	1:20 to 1:100
Dosatron Model RE 10	1:10 to 1:33
Dosatron Model RE 1500	1:500 to 1:1500

*** DILUTION RATES OF UP TO 1:1200 CAN BE ACHIEVED USING AN AUXILIARY MIXING BLOCK. PLEASE CONTACT YOUR CHEMICAL SUPPLIER.**

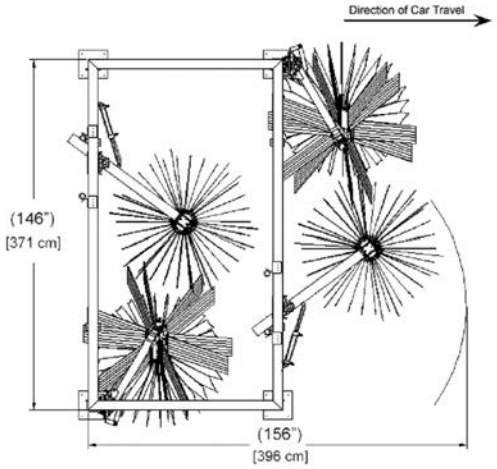
The **4-Pack Flex Wrap** combines a set of flex wrap brushes and angled side brushes in a space slightly larger then a flex wrap brush alone. This unique configuration packs four counter rotating 70" washers within 13 feet of conveyor space.

The Flex Wrap brushes and Angled Side brushes actually rotate in opposite directions. This counter rotating brush action cleans better in areas like the front and back of mirrors as well as the outer wheel well and rocker panel areas. Hanna's exclusive cloth cut allows for faster brush rotation and cleaning action without increasing vehicle incident.

The **Hanna 4-Pack Flex Wrap** has a high pivot point that allows the brush to move smoothly around the outer edges of the vehicle. This increases cleaning action on the front and rear of all vehicles. Enhanced controls offer separate retract and extend pressures for each arm as well as float pressure for the mirror area. Hanna's Angled Side Brushes contour to the shape of all vehicles and is taller then most side brushes. This allows better cleaning of the top side window area of sport utility vehicles and mini vans. The **4-Pack system** is available as a free standing component.

TECHNICAL SPECIFICATIONS:

SPEED:	50 - 60 RPM
HYDRAULIC:	6 GPM (22.7 L/MIN)
PNEUMEATIC:	.02 CFM (91.0 L/MIN @ 3 BAR)
SPEED:	ANGLED SIDE WASHER – 40 - 50 RPM
HYDRAULIC:	3.0 GPM (9.51 L/MIN)
WATER:	12 GPM @ 40 PSO (91 L/MIN)
CLOTH TYPE:	HANNA SOFT CLOTH



CONSTRUCTION:

- Aluminum or Stainless Steel frame, gussets, and posts
- Stainless Steel Arms and Shaft Assembly
- Hanna Soft Cloth (Optional: Lite-Foam or Neo Glide)
- Hydraulic

STANDARD DIMENSIONS:

Operating Space	13" (396 cm)
Standard Vehicle Clearance	90" (229 cm)
Optional Vehicle Clearance	96" (224 cm)
Width	12' 2" (371 cm)
Length	13' (396 cm)

DESIGN FEATURES:

- Counter rotating brushes
- High pivot point for smooth brush travel

GRILL & SIDE WASHER

ELIMINATE THE EXPENSE, TIME AND LABOR TO PREWASH GRILLS, LICENSE PLATES, AND HEADLIGHTS AS WELL AS TO REMOVE BUGS AND OTHER CAKED ON ROAD GRIME!

Hanna's Grill Washer is two washers in one. It follows and cleans the complete front vertical surface of the vehicle safely and then follows smoothly and safely to wash the tall side surfaces. Hanna's standard 70" brush height allows for cleaning of high SUVs and Vans. It is gentle and does not bend license plates because the washers rotate at the vehicle like a side brush (in the opposite rotation of the flex wrap brushes) and provide the necessary force to clean with no prepping. It can be fitted with Hanna Soft Cloth or Lite Foam material. Simple Shocks and Pneumatic controls allow the operator the flexibility to control pressure against the vehicle. For operators who own a Hanna Side Washer or Angled Side Washer, a kit is available to convert the component. Check with your Hanna representative to make sure there is enough tunnel space. Like all Hanna components the Grill brush is built to last a generation. Compare the build quality, wash coverage and simplicity. Hanna proves once again that Nothings Tougher™.

BRUSH DIMENSIONS:

Top Brush Panel	24"/28" X 42" (61 cm/71 cm x 107 cm)
Bottom Brush Panel	22"/18.5" X 28" (56 cm/47 cm x 71 cm)
Top Core	8" x 42" (20.32 cm x 107 cm)
Bottom Core	10" x 28" (25.40 cm x 71 cm)

TECHNICAL SPECIFICATIONS:

Hydraulic Flow	3.0 GPM (11.4 LPM)
Speed	50 RPM
Cloth Type	Hanna Soft Cloth Lite Foam

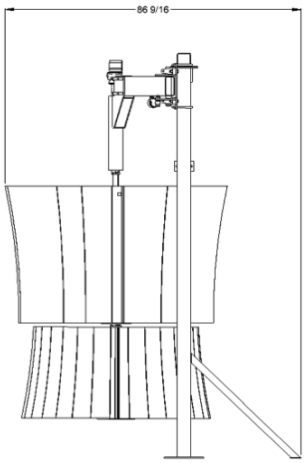
CONSTRUCTION:

- Stainless Steel
- Operating Space Required: 10'
- Brush Height -- 70" (177.80 cm)
- Overall Height -- 10'6" (3.21 m)

Hanna's **Focus Flex Wrap** uses one set of opposed flex wrap mounted on a single frame. The compact design allows maximum cleaning of the vehicles vertical surfaces utilizing the least amount of conveyor space. Each wrap has a high pivot point that allows the brush to move smoothly around the outer edges of even the largest vehicle. Hanna's exclusive cloth cut safely allows for a faster brush rotation and cleaning action. Enhanced controls offer separate arm retract and extend pressures as well as float.

FEATURES:

- Stainless steel or Aluminum
- Stainless steel brush arm & shaft Assembly:
- Hydraulic drive
- **Operating Space:** 13' (396 cm)
- **Optional Clearance:** 112"
- **Width:** 12'10" (391 cm)
- **Length:** 11 (280 cm)
- **Height:** 10'6" (320 cm) to compensate for low water pressure.
- **Hydraulic Rated Flow: 6 GPM**



Hanna's Side & Window Brush is one of the most popular brush components in the industry. It provides superb cleaning coverage of the upper side, side and rocker panel areas of a vehicle. The 70' brush height is higher then other side brushes allowing for better cleaning of today's taller vehicles. Hanna's exclusive cloth cut also allows for a faster brush rotation and cleaning action. Tension against the vehicle is achieved by an adjustable shock and spring assembly. There is also an adjustable stop bracket to set the rest position.

- All stainless steel frame construction.
- SHWW brush has a 70" (1.78m) brush assembly
- One size fits all with 122" of physical clearance for all standard vehicles
- Hydraulic Drive
- Shock & Spring operated for simple operation and easy installation
- Pneumatic Retracts available
- Includes spray manifold and jets
- Includes Water & Hydraulic Plumbing
- Hydraulic flow controls and solenoid valves are purchased separately.

Hanna's Angled Side & Window Brush is similar to the Horizontal Side & Window Brush, only angled toward the vehicle to follow the contour of its surface. It uses a combination of gravity and a special dampening shock to provide proper brush penetration and safely clean hard to reach areas like the top of the vehicle's side windows. The 70" brush height in combination with the angled brush assembly allows better cleaning of the top side window area of sport utility vehicles and mini vans.

- All stainless steel frame construction.
- ASWB has a 70" (1.78m) brush assembly
- One size fits all with 122" of physical clearance for all standard vehicles
- Hydraulic Drive
- Gravity operated with cushioning shock
- Includes spray manifold and jets
- Includes Water & Hydraulic Plumbing
- ASWB supplied with shock pivot system standard
- Pneumatic Retracts are not available
- Hydraulic flow controls and solenoid valves are included in proportionator pricing or purchased separately

CONSTRUCTION:

- Stainless Steel Frame
- Operating Space Required – 7' (213 cm)
- Brush Height – 70" (177.80 cm)
- Overall Height – 10'6" (3.21 m

BRUSH DIMENSIONS:

Top Brush Panel	24"/28" X 42" (61 cm/71 cm x 107 cm)
Bottom Brush Panel	22"/18.5" X 28" (56 cm/47 cm x 71 cm)
Top Core	8" x 42" (20.32 cm x 107 cm)
Bottom Core	10" x 28" (25.40 cm x 71 cm)

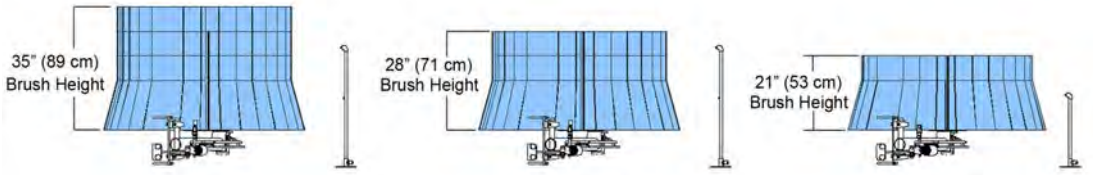
TECHNICAL DATA:

Hydraulic Flow	3.0 GPM (11.4 LPM)
Speed	40 – 50 RPM
Brush Material	Hanna Soft Cloth Foam Neoglide Brush

HUB CAP ROCKER PANEL

The Hubcap Rocker Panel Brush (HCRP) gives special cleaning attention not only to rocker panels, but also to hubcaps and deep rimmed wheels. Even though lower vertical surfaces vary greatly in contour from one vehicle to another, the design of the **Hubcap Rocker Panel Brush** ensures that the rocker panel area is clean on every car, regardless of size or shape.

The HCRP comes in three sizes 21", 28" and 35". Shorter brushes penetrate deeper into the wheel wells and create more friction on the wheel and tire - while taller **HCRP** brushes reach higher vertical surfaces. The Lower portion of each HCRP brush has a wider and longer cut to allow better penetration in the wheel well area wheel including the tires and wheels. Tension against the vehicle is achieved by an adjustable shock and spring assembly. There is also an adjustable stop bracket to set the rest position. The **HCRP** can be ordered free standing or post mounted.



TECHNICAL DATA:

Rotation Speed: 65 - 75 RPM

Hydraulic: 3 Gal/min (11.36 L/min)

Water: 6 Gal/min (23 L/min)

Textile: Hanna Soft Cloth

Options: Lite Foam or Neo Glide

Construction: Stainless Steel Frame Hydraulic Direct Drive Hydraulic Fluid 3.2 GPM

BRUSH DIMENSIONS:

- 21", 28" and 35" Brush Height
- 10" Aluminium Core w/ C-Channel
- Brush Diameter: 50" Upper – 58" Lower
- Brush Speed: 70 RPM
- Brush Material: Hanna Soft Cloth

Hanna's **Short Stack Flex Wrap** was designed to maximize your tunnel space by combining proven high performing cleaning equipment into one frame. This system starts with two side brushes with the ability to add additional equipment without adding to the tunnel required length. The operator can easily add S20 Mitter, Top Brush, Tire Washer, High Pressure Wheel Washer to the **Short Stack Flex Wrap.** The driver side and passenger side brush arms are offset allowing separation between brush assemblies. Enhanced controls offer separate retract and extend pressures for each arm as well as float pressure for the mirror area.

Pack A LOT of cleaning power in a small tunnel space with the Short Stack Flex Wrap!

FEATURES:

- One size fits all with 112" of physical clearance for all standard vehicles
- Some added components may alter clearance height
- Hydraulic Drive
- Available in both Stainless Steel and Aluminum frames
- Foam upgrade option
- The Short Stack Flex Wrap has a 70" (1.78m) brush assembly
- Includes spray manifold and jets
- The Short Stack Flex Wrap requires 5 computer functions, added components may require additional
- Hydraulic flow controls and solenoid valves are included in proportionator pricing or purchased separately

Hanna's Stack-N-Scrub (SNS) Flex Wrap is a free-standing component designed to retrofit automatic bays and pack tremendous cleaning power in a small space. Our highest selling and most popular component the Stack-N-Scrub helps existing operators compete with the fast pace Express conveyor market as well as provide the new investors with a compact washing system suitable for a variety of property sizes.

The **Stack-N-Scrub** offers more flexibility than any other component. The **Stack-N-Scrub** features two sets of opposed flex wraps on aluminum or stainless steel frame and allows the operator to stack or combine a wide variety of wash components such as the Top Brush, Hub Cap Rocker Panel, Stepped Tire Brush and many more.

The **Stack-N-Scrub** is ideal for conveyors from 50' to over 150' in length and for speeds from 40-180 cars per hour. With the industry's largest distributor network, Hanna provides the local expertise to guide you through the steps from site selection through opening day.

Install the Stack-N-Scrub, the most versatile component in the tunnel industry, to wash the most cars in the shortest amount of space!

DESIGN FEATURES

Construction

- Aluminum or Stainless Steel frame
- Stainless Steel Arms & Shaft

Assembly

- Non-woven Textile
- Lite-Foam or Neo Glide (optional)
- Hydraulic Drive

Standard Dimensions

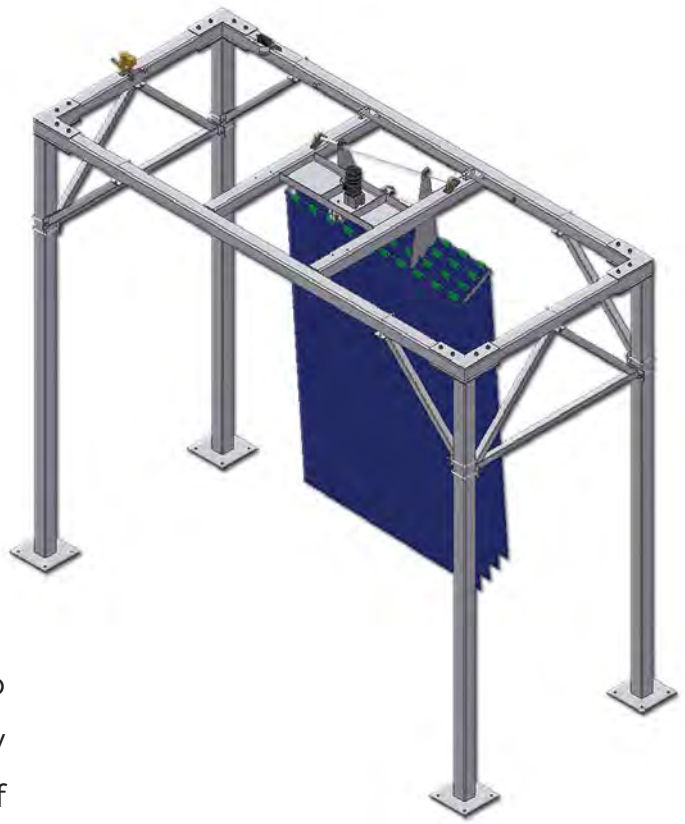
- *Operating Space:* 24' (732 cm)
- *Standard Vehicle Clearance:* 90" (229 cm)
- *Optional Vehicle Clearance:* 96" (244 cm)
- Width: 15' (457 cm)

HANNA'S DIAGONAL TOUCH MITTER

Hanna's Diagonal Touch Mitter is designed for short systems and small spaces, although it can easily be added to any existing system. Compared to most other small-space mitters, **Hanna's Diagonal Touch Mitter** has more action and delivers superior cleaning results. It is constructed of stainless steel and includes one HFTM curtain rack with 40 soft cloth curtains.

FEATURES:

- Stainless Steel
- Length 5' (1.52 m)
- Height 10'6" (3.20 m)
- Vehicle Clearance 90" (228.60 cm)
- Optional 96" (243.80 cm)
- Optional 102" (259.10 cm)
- 1 Rack
- 80 Soft Cloth Curtains Hydraulic Drive
- Optional Electric Drive



S-20 MITTER CURTAIN

The **S-20 Mitter Curtain** is designed to use side-to-side motion to effectively clean the hood, windshield and roof of the vehicle without incident to roof racks, roof lights and antennas, while still forming to the shape of the vehicle. The unique design allows for maximum cleaning while taking up very little tunnel space. In fact, the **S-20** requires only 4 ft. of tunnel space. It is an excellent choice for operator with any conveyor length. It can also be easily retrofitted into existing tunnels for added cleaning ability in the car wash system.

FEATURES:

- Stainless steel frame
- New woven textile
- Hydraulic drive
- Vehicle clearance - 96" (244 cm)
- Speed - 35 RPM
- Hydraulic - 3.0 GPM@500 PSI

GENTLY WASHES TOP OF VEHICLE TO ENSURE A THROUGH CLEAN IN SHORTER TUNNELS!

Hanna's **HSS-2 Cloth Mitter** was designed to clean the top horizontal surfaces of any vehicle. The front to back cleaning motion gently cleans the vehicle without incident to roof racks, roof lights and antennas. The four basket design holds 192 cloth curtain strips and conforms to any vehicle shape including the front and back of vehicles.

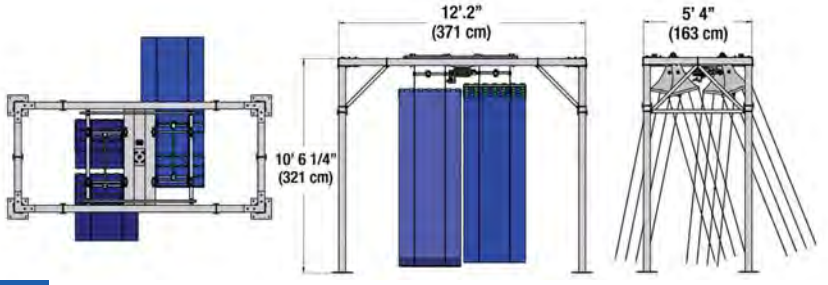
The **HSS-2** is available with stainless steel or aluminum frames. The cloth mitter baskets and drive rods are made of stainless steel to provide the extra strength and rigidity required to minimize torsion stress and increase the longevity of the component.

The system operates with either electric or hydraulic drive motors. With the electric drive option a variable frequency drive is recommended to increase motor life.

DESIGN FEATURES:

- Four Mitter Cloth Baskets
- 192 Cloth Curtain Strips
- Water Manifolds and Nozzles Included
- Hydraulic or Electric Drive

COMPONENT ASSEMBLY:



CONSTRUCTION:

- Stainless Steel or Aluminum Frame
- Stainless Steel Baskets and Drive Rods

STANDARD DIMENSIONS:

- Length: 7' (213cm)
- Width: 12'2" (371cm)
- Height: 10'6" (320cm)
- Ceiling Height Minimum: 11' (340cm)
- Operating space: 7' (213cm)
- Standard Clearance: 90" (229cm)
- Optional Clearance: 96" (244cm)

TECHNICAL SPECIFICATIONS:

Hydraulic Drive:	Flow 3 GPM (11.4 liter) @ 500 PSI (34 Bar)
Speed:	30-35 RPM
Electric Drive:	2 HP 230/460V 60Hz 3Ph 5.8/2.9 Amps 2 HP 380/415V 50Hz 3Ph 4.4/4.8 Amps
Variable Frequency Drive Contactor recommended	
Water Flow:	12 GPM @ 40PSI (45.6 LPM @ 2.75 Bar)
Cloth Type:	Hanna Soft Cloth

Component Assembly Specific

The Hanna Finishing Touch Mitter (HFTM) features two stainless steel mitter baskets that hold 80 cloth curtain strips. The baskets move in an opposite diagonal direction diagonally opposite creating a figure eight curtain motion. This unique motion cleans the top horizontal surfaces of any vehicle and does an excellent job of cleaning hard to reach vertical surfaces. The unit is available with frames constructed of stainless steel or aluminum.

The cloth mitter baskets and drive rods are all made of stainless steel to provide the extra strength and rigidity required to minimize torsion stress and increase the longevity of the component. The **HFTM** is available with either direct drive hydraulics or electric motors. The electric drive system utilizes a gear box to control rotation speed.

STANDARD DIMENSIONS:

- Length: 7' (213cm)
- Width: 12'2" (371cm)
- Height: 10'6" (320cm)
- Ceiling Height Minimum: 11'(340cm)
- Operating space: 7' (213cm)
- Standard Clearance: 90" (229cm)
- Optional Clearance: 96" (244cm)

DESIGN FEATURES:

- Two Mitter Cloth Baskets
- 80 mitter cloth panel strips
- Water Manifolds and Nozzles Incl.
- Free Standing (Aluminum frame in free standing model only)

TECHNICAL SPECIFICATIONS:

Hydraulic Drive: Flow 3 GPM (11.4 liter) @ 500 PSI (34 Bar)
Speed: 30-35 RPM
Electric Drive: 2 HP 230/460V 60Hz
3Ph 5.8/2.9 Amps
2 HP 380/415V 50Hz
3Ph 4.4/4.8 Amps
Variable Frequency Drive Contactor recommended
Water Flow: 12 GPM @ 40PSI (45.6 LPM @ 2.75 Bar)
Cloth Type: Non-Woven Textile

CONSTRUCTION:

Stainless Steel or Aluminum Frame, Stainless Steel Baskets and Drive Rods

CHOOSE THE MOST DEPENDABLE AND RELIABLE TOP BRUSH IN THE INDUSTRY!

Hanna has sold more **Rotary Top Brushes** than any other manufacturer in the world. That is because Hanna Rotary Top Brush is the safest, simplest and most effective top brush in the industry.

The brush action is very smooth over the contour of the vehicle and Hanna's exclusive brush design is also the quietest top brush available in the market today. Hanna's exclusive counterweight design utilizes dual dampening pneumatic cylinders for constant and gentle brush penetration over the hood, roof and trunk of the vehicle. The smooth rotational motion allows for cleaning coverage capable of reaching the front hood of low vehicles as well as the top rear of SUV's. This all fits in 8 feet of tunnel space. Hanna's versatile top brush easily fits into a variety of Hanna's current frame structures allowing for the stacking of multiple components in tight spaces. The Hanna **Rotary Top Brush** also retrofits into nearly every generation of Hanna Car Wash System.

CONSTRUCTION:

- Stainless Steel Frame
- Galvanized Counter Weights
- Includes Soap Foamer Manifold
- Includes Water & Hydraulic

PLUMBING

Standard Dimensions:

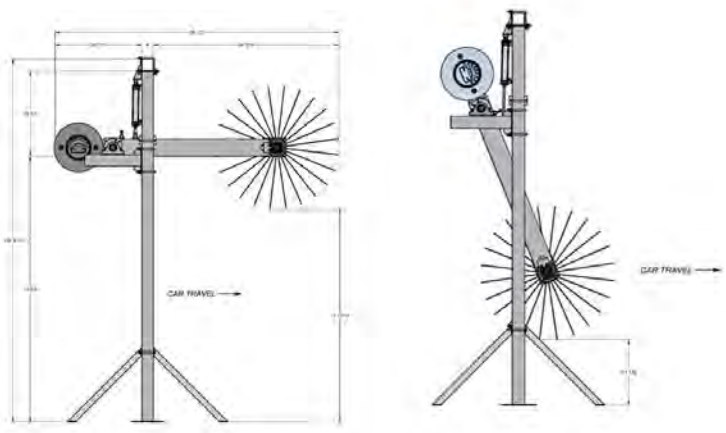
- Tunnel Space: 8’ (2.43 m)
- Length: 9’ (2.74 m)
- Width: 12’ 2” (3.71 m)
- Height: 10’ 6” (3.2 m)

Technical Specifications:

- Hydraulic Flow: 6 GPM @ 500 PSI
- Pneumatic: 0.02 SCFM per car
- Electrical: 135 watts @ 24 VAC
- Brush: Foam Brush

Standard Features:

- All stainless steel frame construction
- Designed to clean horizontal surfaces using rotating foam brush action.
- Includes spray manifold and jets only
- Hydraulic Drive
- Includes Water & Hydraulic Plumbing
- Hydraulic flow controls and solenoid valves are included in proportionator pricing or purchased separately
- Top Brush available in Blue or Black. Other upgrade colors available for additional cost.



MAXIMIZE THE EFFECTIVENESS OF YOUR WHEEL CLEANING CHEMICAL WITH THE FOAMING TIRE & WHEEL CTA APPLICATORS!

The **Foaming Tire & Wheel CTA** Applicator has a unique design that generates thick foam for maximizing dwell time on the wheel. This applicator can be utilized to clean just the wheels or the entire side of the vehicle. Upgrade the aesthetic by adding a stainless steel shoud.

FEATURES:

- Requires a single computer function
- Best when used with the Hanna High Pressure Wheel Washer

OPTIONS:

- Can be used to clean the wheel or entire side of a vehicle. This function requires a tunnel controller capable of tracking wheel position and wheel locator switch.
- Stainless Steel Shoud

The **Follower Wheel Washer** follows the vehicle's wheel for 5' along with the conveyor blasting away dirt and brake dust.

The **Follower Wheel Washer** uses Turbo Blast nozzles to provide maximum cleaning force to thoroughly clean the wheels and tires. A 15 HP high pressure pump stand (not included) is required to deliver 18 GPM at 1000 PSI to the **Follower Wheel Washer**. Each side delivers 9 GPM to blast away hard to reach dirt in the wheels and tires. The **Follower Wheel Washer** includes a VFD and PLC to control the speed of the motor to match the speed of the conveyor. The Follower Wheel Washer goes the same speed of the conveyor while washing the tire, but returns quickly back to the beginning of the 5' track to wash the next set of tires. Save conveyor space by mounting the Follower Wheel Washer inside the posts of a mitter.

TECHNICAL SPECIFICATIONS:

- Able to mount inside the posts of a mitter to save tunnel space or Free Standing with free standing posts. (64" Length of tunnel space required)
- Stainless Steel Construction and UHMW rollers to provide years of service.
- Electrical consumption – 208/240 or 460 volt (small .16 HP drive motor) pulls less than 1 amp • Control Panel with VFD and PLC with power supply is included.
- Water Consumption –Requires a 15HP 18 gpm pump stand to provide the required water.
- 5' Track length

HYDRABLAST WHEEL WASHER

Hanna Pivoting Wheel Washer creates impingement and maximizes dwell time through the use of a rotating manifold that pivots to follow both the front & rear wheels.

The Hanna Pivoting Wheel Washer utilizes Hanna's exclusive spray head with multiple zero degree nozzles to deliver a concentrated blast of water onto the wheel surface. The freestanding modular design requires little conveyor space and is simple to add to new or existing car washes.

FEATURES

- The Pivoting Wheel Washer utilizes two self rotating spray heads each with 5 nozzles (10 total on each side) delivering 18 gpm at 1000 psi.
- The Pivoting Wheel Washer rotating swivel is rated to 5000 PSI for extra strength and longevity.
- The Pivoting Wheel Washer followsthe front wheel before pivoting to follow the rear wheel.
- The ability to follow each wheelallows for maximum dwell time and impingement.

Hanna Stationary Wheel Washer is a fixed position high pressure applicator. The Invader utilizes the same rotating spray head conguration as the Hanna Pivoting Wheel Washer, but because it is xed position it does not pivot with the movement of the vehicle wheels. The simple low maintenance design also takes less tunnel space than other low side high pressure washers. The Invader can be attached to any post or mounted with freestanding posts.

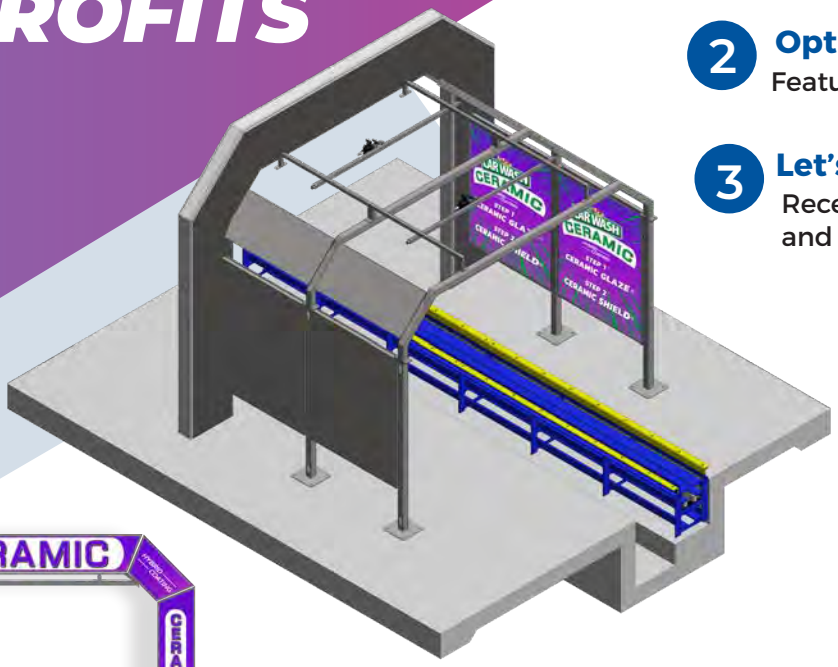
INVADER FEATURES:

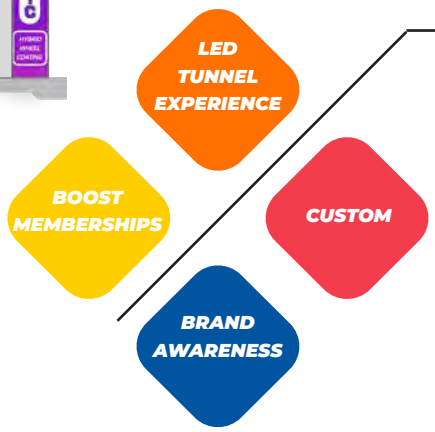
- The Invader utilizes the same rotating spray head as the Pivoting Wheel Washer.
- The Invader can be used as fixed position low side and whee washer.
- The Invader can be attached to any 4”x 4” post to concentrate cleaning power where it is needed.

A TUNNEL INSIDE A TUNNEL!
CERAMIC
HYBRID COATING
CAR WASH
CERAMIC
HYBRID COATING
STEP 1
CERAMIC GLAZE
STEP 2
CERAMIC SHIELD
GO UNLIMITED AND SAVE!
HYBRID WHEEL COATING
CERAMIC TUNNEL
THE ULTIMATE CARWASH TUNNEL EXPERIENCE.

BOOST APPEARANCE & PROFITS

1. **Tunnel Length**
   4FT, 8FT OR 12 FT
2. **Options**
   Features and add-ons
3. **Let's Begin!**
   Receive your 3D model and graphics!





Features and add-ons

- Advertising opportunities available
- Stainless Steel will last a lifetime
- Enhancement to other products; Drying Agent, etc.
- Custom brand signage
- Durable LED Technology
- Sleek modern top panels
- Custom Tunnel length
- *Customized options available*

4 FT	8 FT	12 FT
(1) Stainless Steel Ultimate Entrance Arch with backlit Lexan and custom graphics	(1) Stainless Steel Ultimate Entrance Arch with backlit Lexan and custom graphics	(1) Stainless Steel Ultimate Entrance Arch with backlit Lexan and custom graphics
(1) 3x3 Universal Arches	(2) 3x3 Arches	(4) 3x3 Arches
(2) 60x48 Stainless Steel with backlit Lexan Signs with custom graphics	(4) 60x48 Stainless Steel with backlit Lexan Signs with custom graphics	(6) 60x48 Stainless Steel with backlit Lexan Signs with custom graphics
(2) 21x48 Stainless Steel with backlit Lexan Signs with custom graphics	(4) 21x48 Stainless Steel with backlit Lexan Signs with custom graphics	(6) 21x48 Stainless Steel with backlit Lexan Signs with custom graphics
(1) V-Jet Foam Nozzle Kit	(2) V-Jet Nozzle Kit	(3) V-Jet Nozzle Kit
(1) Double Row Rainbar	(2) Single Row Rainbar	(3) Single Row Rainbar
(1) 288 WATT LED Light	(2) 288 WATT LED Light	(3) 288 WATT LED Light

HANNA'S TIRE WASHER 96 (TW-96)

Hanna's Tire Washer 96 (TW-96) effectively cleans tires with its adjustable tension control, adjustable brush height and 96" (2.44 m) long brush. It automatically adjusts to vehicle widths andcomes with PVC entrance guides for vehicle safety. The system automatically moves out to the position to clean the tire, and retracts after. Hydraulic drive motors are mounted on the exit end of the brush for quick and easy accessibility. Simplified hose routing allows for easy installation.

CLOTH TIRE BRUSH

REGULAR TIRE BRUSH

DIMENSIONS:

Operating Space: 14'6" (4.42 m)

Brush Length: 96" (2.44 m)

Brush Diameter: 8" (.20 m)

Cloth Brush Diameter: 12" (30.48 cm)

PVC Entrance Guides Diameter: 3" (.08 m)

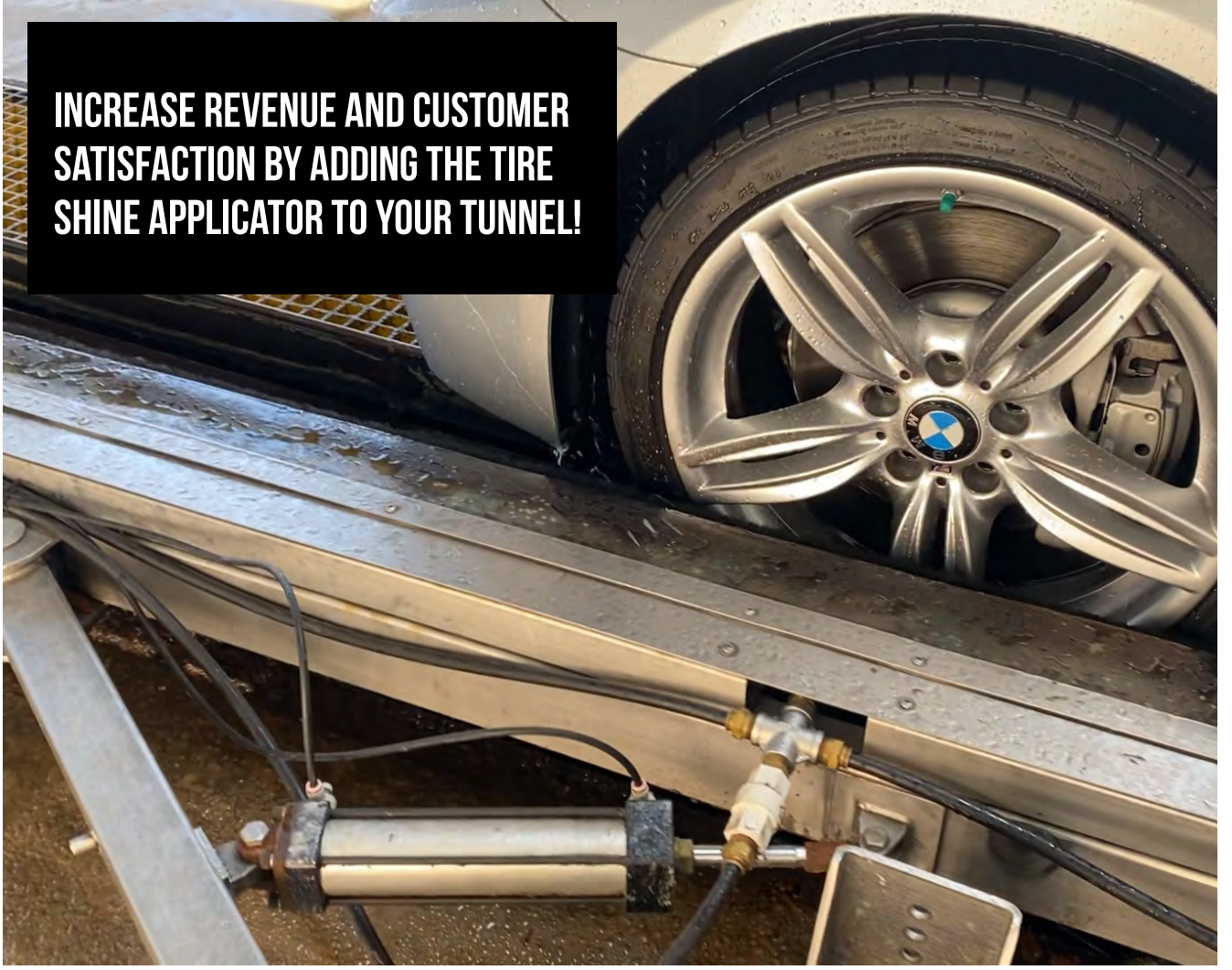
Hanna's Stepped Tire Brush was created out of the need to safely and automatically clean the outside surface of the tire while cleaning the inside surface of the wheel at the same time. The Stepped Brush is designed using 9" Polypropylene in a dense concentration for washing the tire along with 12" lengths of Polypropylene with feathered tips for washing the inside of the wheel. These sections alternate in 6" increments for the length of the 96" brush. Field conversion kits are also available for existing TW-96 Tire Washers.

FEATURES:

- 9" & 12" Polypropylene Stepped Brush
- 3" (.08m) diameter PVC entrance guides included
- Pneumatic retracts
- Does not include water plumbing or internal hydraulic plumbing
- Available in hydraulic drive only
- Hydraulic flow controls and solenoid valves are included in proportionator pricing or purchased separately

104" LONG AVAILABLE

TIRE SHINE APPLICATOR



The Hanna Tire Shine Applicator applies an even coat of tire dressing from the edge of the tire tread to the edge of the wheel.

Hanna's exclusive drip manifold system applies chemical to the tips of the rotating polyethylene heavy flagged brush. The special manifold is fed from three different points to ensure an even delivery of product to the tire brush. This process lowers the amount of chemical used per application and minimizes runoff to the floor.

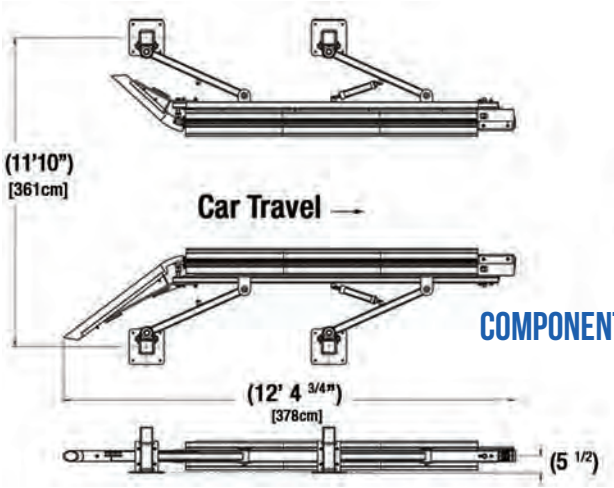
The Hanna Tire Shine unique brush design allows the tips to contour to the shape of the tire maximizing coverage while maintaining an even application. The system comes complete with brush retracts and dual chemical pumping system.

STANDARD DIMENSIONS:

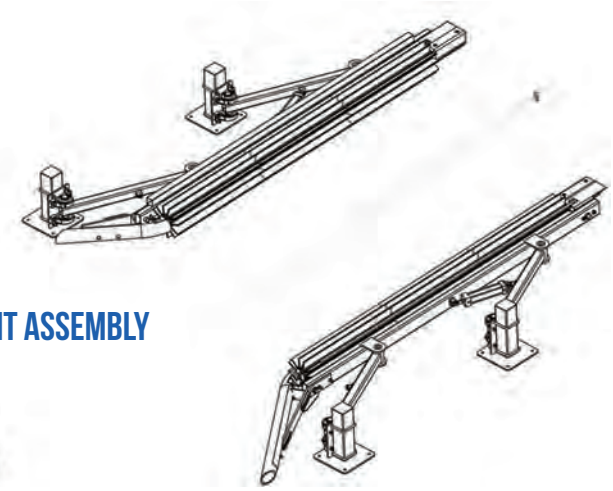
- Operating Space: 14' 6" (442 cm)
- Width: 11' 10" (361 cm)
- Length: 12' 4 ¾" (378 cm)

TECHNICAL SPECIFICATIONS:

- Hydraulic Flow: 3 GPM @ 200 PSI (11.4 LPM @ 14 Bar)
- Electrical: 60 watts @ 24 VAC
- Air: 0.02 CFM per vehicle @ 90 PSI (6 bar)
- Brush: Polyethylene heavy flagged brush
- Solution: 1 – 2 oz per application (results may vary depending upon the chemical used)



COMPONENT ASSEMBLY



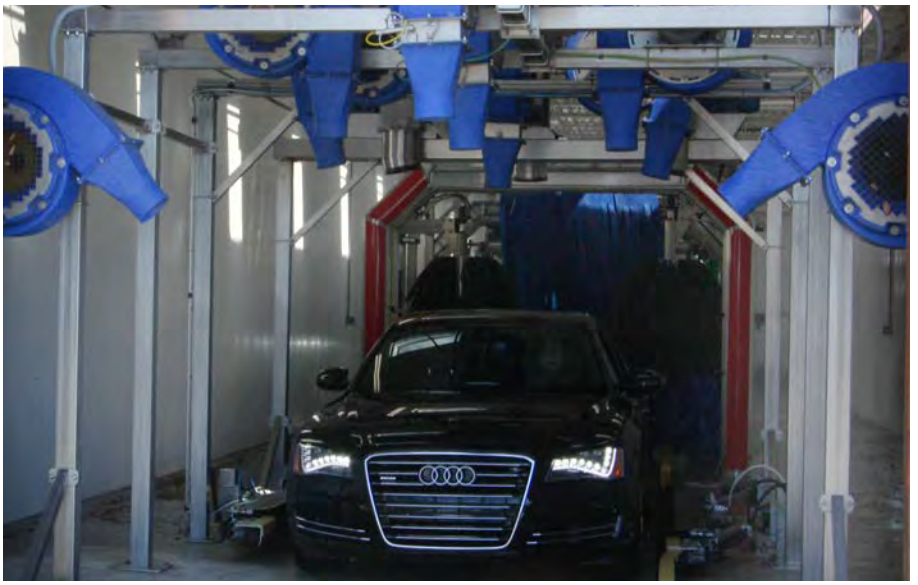
CONSTRUCTION:

- Stainless Steel Frame
- Polyethylene heavy flagged brush
- 96” x 2 1/2” Steel hollow tube for dramatically improved strength
- Hydraulic Drive
- Optional Electric Drive

DESIGN FEATURES:

- Air actuated retracts andcontrols
- PVC tire guide for safety
- Exclusive chemical drip manifold with three feed points
- Clear rubber splash guard
- Dual Flowjet pumping station

104” LONG AVAILABLE



HANNA'S EQ-SERIES DRYERS ARE ALL ABOUT HIGH EFFICIENCY AND LOW ENERGY WHILE KEEPING IT EASY AND SIMPLE.

Hanna's take on this conventional drying system is aimed at quality of manufacture and the quantity of air flow while using the least amount of energy. Hanna's Hi-Flow round nozzle design provides a smooth transition of air flow from the scrolled producers directly through to the vehicle surface.

EQ PLUS DRYERS & SPIDER NOZZLES

Our cost effective EQ Plus dryers are an upscale version of the typical centrifugal dryers that are found in most washes. We feature not only fully welded, epoxy dipped wheels, but also a high efficiency airfoil design that delivers maximum air velocity and airflow. These units are offered in 10HP or 15HP. Housings are constructed of durable long lasting molded resin with aluminum intake safety screens. Options:

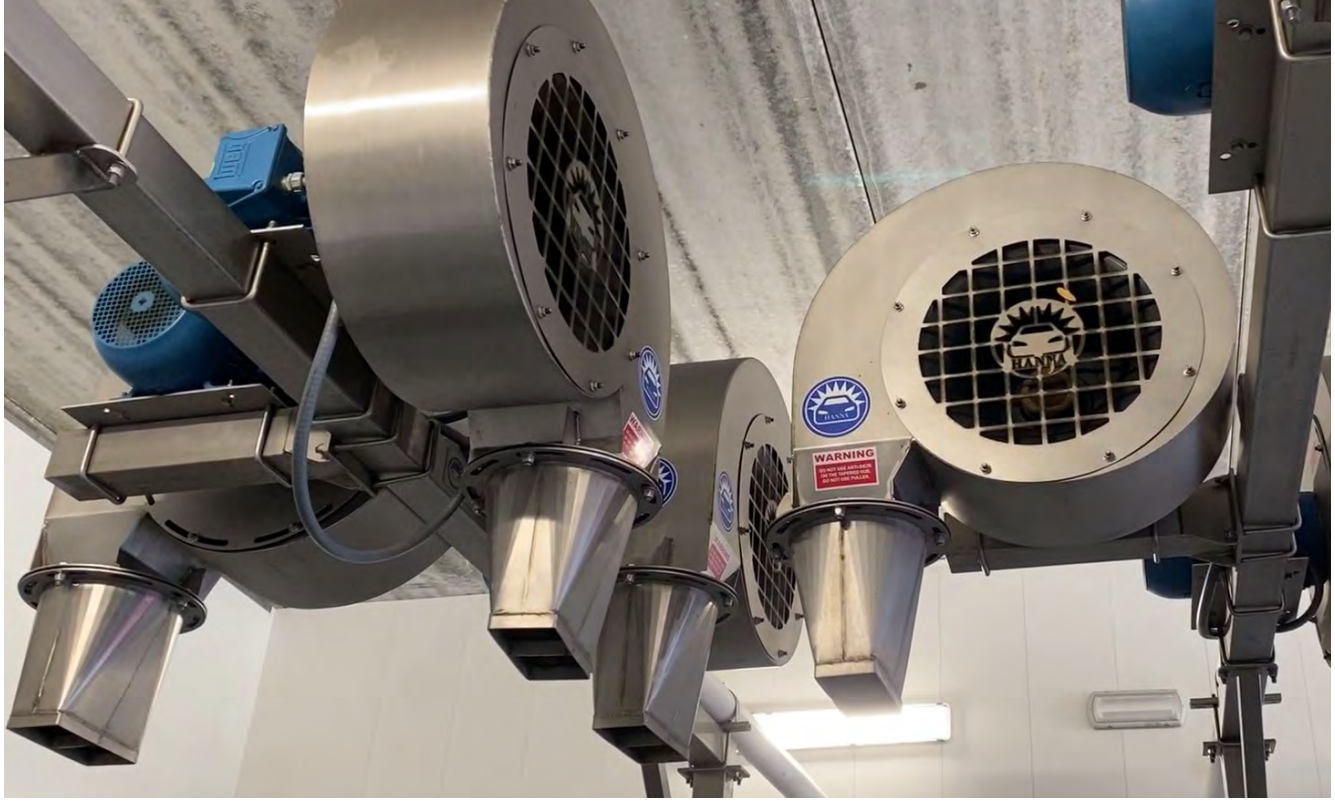
DUCK BILL NOZZLE

ANGLE BRACKET

FOAM NOZZLES

SPIDER NOZZLE

STANDARD NOZZLES



Hanna's H.E.S.S. (High Efficiency Stainless Steel) Dryers not only provides a desirable appearance, but also provides longevity and durability you would expect from the Coleman Hanna brand. The H.E.S.S. design provides the industrial strength for an extra-long life with easy to maintain appearance.

Provide a drier vehicle while using less energy with the H.E.S.S. Series Dryers!

H.E.S.S. FEATURES:

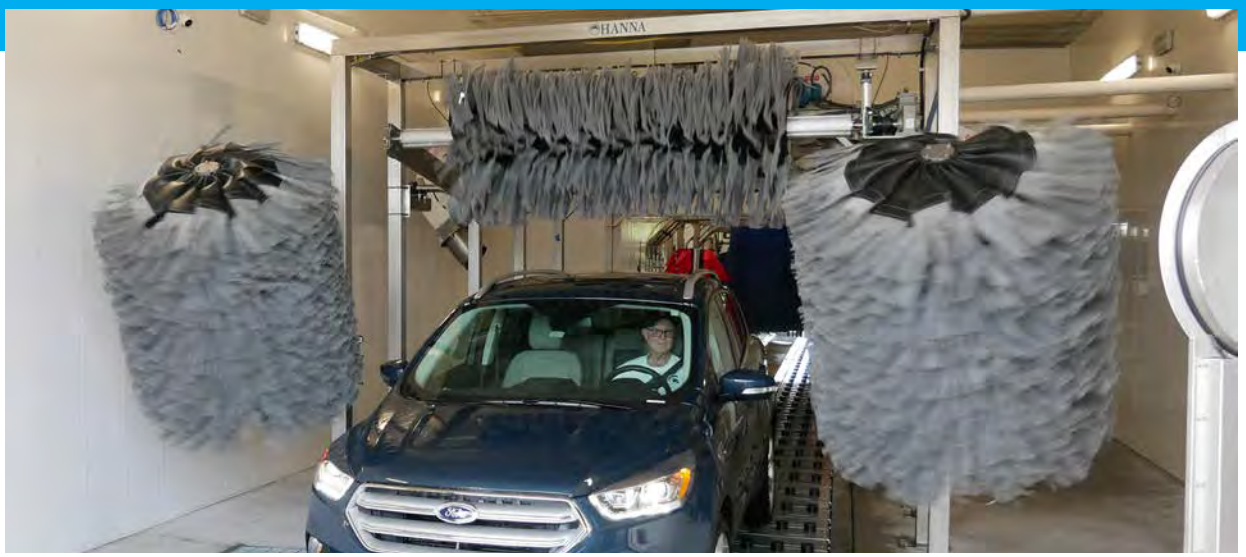
- Stainless Steel housings are durable, corrosion resistance and attractive.
- Hanna Stainless Steel nozzles available
- Up to 5 dryers can be mounted on a single stainless steel arch
- Standard 10hp TEFC motors
- Housing rotates 360 degrees to allow fine tuning of the air stream
- Corrosion resistant intake cone and Stainless Steel inlet screen
- Stainless steel mounting hardware for easy maintenance and corrosion resistance
- Powder coated steel impellor with backward curved blades are welded on both sides for durability
- Each 10 HP blower produces 7800 CFM of air per with actual BHP of less than 9.0
- Impellers are statically & dynamically balanced for power efficiency, smooth operation and improved motor life
- Hanna recommends the use of Hanna Variable frequency drives to further lower electricity cost

The Gleam Machine™ has two side washers with added rocker panel brushes and a special foam material on the top brush. This polishing component is placed in the tunnel to polish the vehicle. This higher wash package offering allows operators to enhance revenue with an added service. Enhance the look of your wash by using an LED backlit Horizon Arch to apply triple foam polish to the vehicle. An arch is required with the Gleam Machine™ in order to apply the polishing chemical.

Enhance Your Wash with Added Revenue from the Customer Popular Gleam Machine™!

- The Gleam Machine has two side washer, rocker panel brushes and a top brush with special foam material.
- The Gleam Machine is placed in the tunnel to polish a vehicle.
- Most operators are using the Gleam Machine as an option in their higher priced packages.
- Arch required to apply the wax material. Hanna recommends a Horizon arch with triple foam applicators to apply polish to a vehicle
- Pneumatic Retracts are included. Hydraulic flow controls and solenoid valves are included in proportionator pricing or purchased separately
- Gleam Machine require 4 computer functions
- Mounted on a 80” Deep Stainless Steel Frame.

DETACHABLE CLOTH AVAILABLE WITH VELCRO FOR EASY WASHING ABILITY



Easily provide multiple vacuum stations with one central system with the **Hanna Central Vacuum System.** This central vacuum system provides ease of use with only one central location to service. The central vacuum system is ideal for locations with free vacuums such as full service and express tunnels. Our improved producer has larger bearings with an optional 25 HP model. Likewise, an optional vacuum gauge can be mounted on the collector to monitor the performance of the system. Lastly, the attractive and long-lasting stainless steel vacuum arches are sure to entice customers to stop.

- NEW **Hanna Central Vacuum** has been improved to provide longer life and better performance.
- Comes with an exhaust pipe to easily install a muffler if needed or desired.
- Optional Stainless Steel Muffler and Stainless Steel Muffler Top.
- Heavy Duty Bearings and 1-1/4" shaft, larger than the old design
- Optional vacuum gauge can be mounted inside the collector to measure the performance of the vacuum.
- Dimensions mounted producer and collector 28" x 100" (0,72 m x 2,55 m)
- Durable Stainless Steel Parts
- 20 HP or 25 HP model available
- Optional Stainless Steel Collector
- Link together Stainless Steel Arches with cover to provide shade to customers. Add lighting for nightime use.

ARCHES SHADE & LIGHTING OPTIONS

SINGLE VACUUM

This powerful yet affordable Express Vacuum will take your tunnel to a new level!

Coleman Hanna's Express Vacuum is an excellent and economical choice for tunnel locations. With an increase in uptime compared to central vacuums, tunnel operators will see a decrease in down time and an increase in customer satisfaction. A big attraction for tunnels is the FREE vacuums and when the vacuums are down, customers might be turned away and try a different location. Custom graphics for the Express Vacuum are available to create a universal look for your whole car wash.

FEATURES:

- 18 Gauge Stainless Steel Body
- Fuse Protected
- 2" or 1.5" Vacuum Hose & Cuff
- Solid State 110 V Adjustable Timer
- Test Switch
- Self Cleaning Filter Bag
- 2 - 1.6 HP Vacuum Motors
- Dual Latch Clean Out Door
- Your Choice of Dome Color
- Optional Single Motor Vacuum
- Custom Graphics
- Custom Stainless Steel cutout trash can. Send us your logo for the sharp modern stainless steel trash can aesthetic.

AVAILABLE IN 3 DIFFERENT MODELS:

1) CASHLESS- CODE/CREDIT ONLY
2) SINGLE BILL ACCEPTOR/DISPENSER WITH COIN ACCEPTOR/DISPENSER
3) DUAL BILL DISPENSER, SINGLE BILL ACCEPTOR, OPTIONAL COIN ACCEPTOR DISPENSER

The **OptiVa Virtual Attendant** greets your customer, educates them on key wash benefits and upsells them to a higher ticket price – almost better than if you were doing it yourself! The **Virtual Attendant** offers a warm and friendly greeting that provides excellent customer experience. Studies show that if a customer is offered a compelling proposition, half of them will upgrade to a higher wash package and an additional service!

OFFER MORE WAYS TO PAY WITH THE OPTIVA VIRTUAL ATTENDANT ENTRANCE SYSTEM

Introducing the latest innovation in entry systems: the **OptiVA Virtual Attendant.** The **OptiVA Virtual Attendant** offers your customers More Ways to Pay, 7x24 hosting & support and WashMAX remote management and marketing tools to maximize your profits.

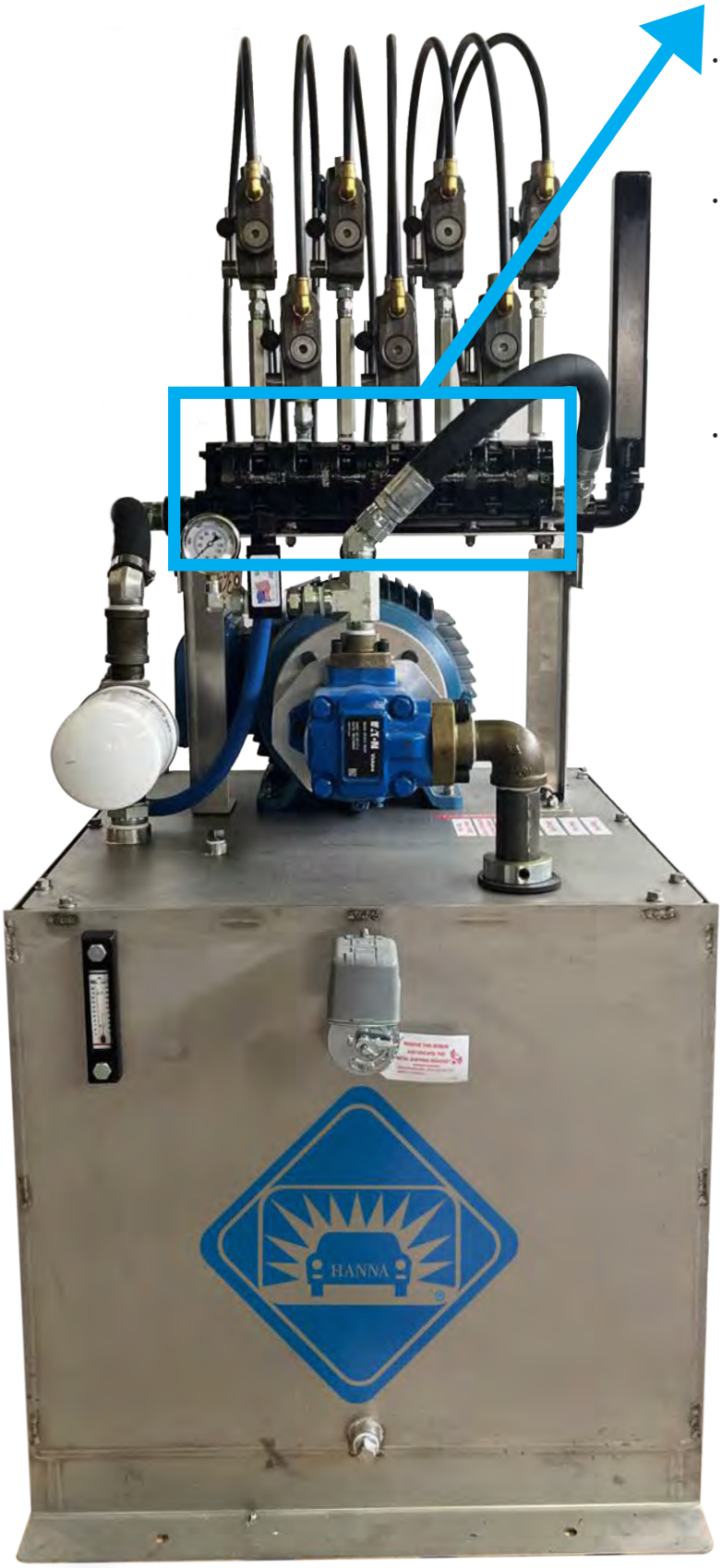
The **Virtual Attendant** offers your customers *More Ways to Pay* including the new NFC-based contactless credit cards and smart phone based mobile payments including *Apple Pay, Google Wallet, and PayPal Here* with the added security of an *EMV Level 2* certified reader!

PROVIDE THE ULTIMATE SECURITY FOR YOUR CUSTOMERS PAYMENT PROCESSES WHILE OFFERING MORE WAYS TO PAY!

HANNA'S DSI FOR TUNNELS IS A VERY SIMPLE, EFFICIENT, CONSISTENT, SPACE SAVING AND PROVEN METHOD OF INJECTING CHEMICAL TO ANY FUNCTION UTILIZING DILUTED CHEMICALS.

DSI, once understood, is the simplest way to inject chemical into the car wash system. Direct injection was first used in the car wash industry in the late 1960's as a method of injecting soap into the wash cycle of roll over brush machines. Today's systems include a water pump to deliver the necessary consistent water pressure to the injection valve. The injector valve has an orifice that allows a predetermined number of gallons of water to flow thru it per minute. The injector then has an injector stem in which the chemical is sucked and mixed with the water.

The amount of product mixed with the water is determined by the size of the opening in the tip. The stems have changeable tips to control the mixture of the chemical. The nozzles that deliver the product to the system have to be correctly sized so as to not create any back pressure against the injector. Any back pressure stops the suction of the chemical. Once the relationship between the flow of the orifice and the nozzle is understood the design and implementation are easy to understand. Since the chemical delivery system is critical to the operation of the car wash it is recommended to have a spare pump with quick disconnect fittings for easy change over in the event of a pump failure on the DSI system. Each function is controlled by a solenoid turned on and off by the site controller.



HYDRAULIC PROPORTIONATORS

- Proportionators are available from 2 to a maximum of 7 banks.
- The priority valve has an internal relief system for control of flow and pressure to ensure optimal control of the car wash.
- This will allow the PLC to turn on the hydraulics, as the component is needed during the wash process.

HYDRAULIC POWER UNITS

- 5 HP with 30 Gallon Tank
- 10 HP with 30 Gallon Tank
- 15 HP with 55 Gallon Tank
- 15 HP with 80 Gallon Tank
- 20 HP with 80 Gallon Tank
- 25 HP with 80 Gallon Tank
- Option to Upgrade 30 to 55 Gallon Tank
- Upgrade to 380/400/415 volt, 50 Hz

GO GREEN AND SAVE WATER WITH THE SWEETWATER RECLAIM SYSTEM.

Finally a simple robust reclaim system that won't break the bank. Save up to 120 gallons per minute, with the dual element Sweetwater Reclaim System, with 32 internal hydrocyclones to spin the dirt right out of your wash water. Clear Lexan bowls let's you see the removed particulate. Graphic PLC monitors the system, providing water on demand and performs the self cleaning function. When not needed the VFD controlled high efficiency motor slows to recirculation mode. Optional ozone removes color and odor and the optional bio control gets rid of surfactants, keeping your storage tank water fresh. Slim design fits easily into most equipment rooms or wash bays.

INCLUDES:

- Centrifugal pump, Oversized Basket strainer, foot valve & strainer,
- VFD to change the speed of the pump for variable output on the pump.
- Cyclone seperator has 16 small cyclone seperators in one housing for peak performance
- Automatic bypass with presure switch
- PLC mounted inside Nema Enclosure with interface to display errors and conditions of equipment
- 3 phase 208-240/460 volt ac
- Ozone Generator with Oxygenerator available as an option to control odors in wat
- BIO pump with approximate 2 month supply of enzymes to clean the water available as an option

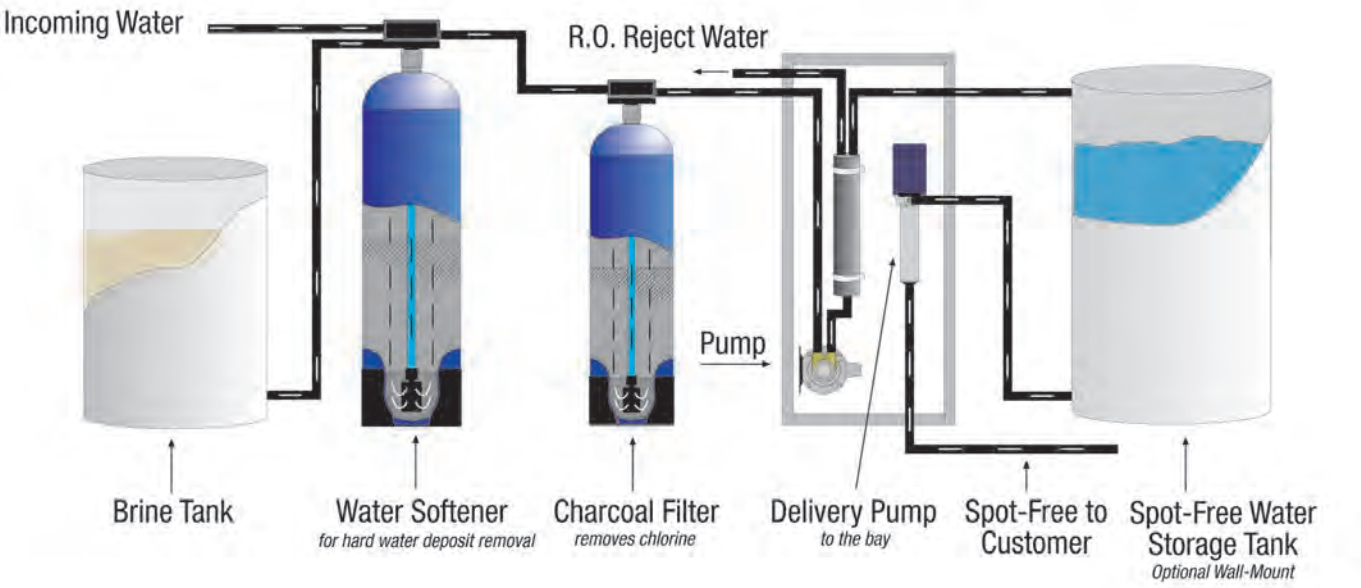
By installing a **Sweetwater Spot-Free Rinse Reverse Osmosis Water Purification System** in your car wash, you can increase income and customer satisfaction. Spot-Free Rinse System removes TDS (total dissolved solids) in the water that softeners do not remove.

IMPRESS CUSTOMERS AND SAVE OPERATING COSTS BY ADDING A SWEETWATER REVERSE OSMOSIS SYSTEM!

Dissolved solids in the water causes spotting on the surface of automobiles. Normal water in the USA has an average of 300 ppm (parts per million) of dissolved solids. Objectionable spotting occurs in water with only 50 ppm or more.

Sweetwater Spot-Free Rinse System removes 98% of TDS or usually to a level of 10 ppm or less. An RO (reverse osmosis) system consists of a charcoal filter, pump, membrane and storage tank. The charcoal filter filters the water and removes all chlorine to prevent damage to the membrane.

The pump receives city water pressure and increases it to force it through the membrane. The membrane separates the good water from the bad, and then the purified water is stored in a storage tank. The tank stores the water until the customer uses the Spot-Free Rinse System.



BENEFITS

• **ENGINEERING AND MAINTENANCE -** Engineered with the best available components on the market, the **Sweetwater Spot-Free Rinse System** will deliver low pressure pure water to the car wash bay. The **Sweetwater Spot-Free Rinse System** can be installed "on-board" for newly purchased wash systems or separately for existing car washes. Installation can usually be done in a day, without downtime. Regular maintenance can be done by the operator simply by changing prefilters and checking water for purity.

• **MORE CUSTOMERS, MORE PROFITS -** By offering RO with your car wash, you will not only gain satisfied customers, but you can also increase your bay income. RO can produce up to 12% of your bay income. This is the most cost effective product in a bay giving you a high rate of return on investment.

SPECIFICATIONS

- Stainless steel frame
- 5 micro prefilter
- Product flow meter
- Reject flow meters
- Reject recover flow meters
- Two production units on one frame to produce the product water
- Units available in 8,000; 10,000; 12,000; 16,000 GPD
- Computer controlled with automatic flush on membranes
- Two separate set of controls on one frame
- Delivery pumps available on the unit
- Includes a 5 or 6 cubic foot back washable charcoal filter
- Three phase 208 - 230 volt or 460 volt

WATER RECYCLING SYSTEMS

Save water with a Water Recycling System. This system includes centrifugal pump, barrel screen, foot valve & strainer, prime tank, hydracyclone, spring loaded bypass valve, and dump gate valve.

5 HP Pump	130 GPM @ 45 PSI
7.5 HP Pump	150 GPM @ 60 PSI
10 HP Pump	150 GPM @ 80 PSI
15 HP Pump	180 GPM @ 100 PSI
20 HP Pump	230 GPM @ 100 PSI

PRESSURE ACTIVATED BOOSTER SYSTEMS

Ensure the delivery of water to all your solutions pumps. This system includes centrifugal pump, pressurized bladder tank, pressure activation switch and check valve. Booster Pump Systems may be required with certain brands of solution dispensers.

3 HP Booster Pump	90 GPM @ 40 PSI
5 HP Booster Pump	130 GPM @ 45 PSI
50 Hertz 3 HP Booster Pump	75 GPM @ 40 PSI
50 Hertz 5 HP Booster Pump	105 GPM @ 45 PSI

WATER SOFTENERS

The size of water softener required for your car wash depends on the size of the RO system. Twin Alternating Tank Water Softener system utilizes a fiberglass tank, Polethylene Brine tank, two mineral tanks, water meter, and a 9000 or 9500 Fleck Valve. This system never runs of out water and uses only one tank while the alternative tank regenerates.

The Single Tank Softener has a single fiberglass tank, polythylene brine tank, all brass head, simple operation and is inexpensive to purchase. This unit regenerates per time clock.

WATER METER RANGES

Water Softeners are available with an standard water meter or extended range water meter. The type of water meter required depends on the hardness of the water at your facility.

3/4' Standard	125 - 2,100 Gallons
3/4" Extended	625 - 10,500 Gallons
1" Standard	360 - 5,000 Gallons
1" Extended	1,800 - 25,000 Gallons

ENSURE STUCK ON DIRT COMES OFF WITH THE SINGLE OR DUAL PREP UNIT TO APPLY BEFORE A CAR IS WASHED THROUGH A TUNNEL.

FEATURES:

- Stainless Steel Stand
- Stainless Steel Tank
- Stainless Steel Control Panel
- Hydrominder
- CAT 5CP2120 Pump
- 3 HP 3 PH Motor T.E.F.C.
- Can Be Used With Hot Or Cold Water Operation
- Paraplate Regulator
- Pre-Wired And Pre-Plumbed
- Stainless Steel Belt Guard
- Soap Only
- Trigger Gun & Wall Mount Wand Holder
- 20'-3/8" Wire Braid Hose
- Motor: 3 HP 3 PH TEFL-208-230 VOH
- Optional: 5 HP 3 PH ; 5 HP 1 PH; 3 HP 1 PH
- Pump CAT 5CP2120
- 5.0 GPM @ 2000 PSI
- 19 Liters/Minute @ 140 BAR
- Electrical For 3 HP: 20 AMP 3 PH Breaker
- 230 Volt (9.2 Actual Amp Draw)
- For 5 HP: 30 AMP 3 PH Breaker
- 230 Volt (13.5 Actual Amp Draw)
- Water Line 1"
- Dimensions 36" wide x 30" deep x 59" tall
- 91.4 cm wide x 76.2 cm deep x 149.9 tall cm

ENSURE STUCK ON BUGS ARE GONE WITH THE ALL STAINLESS STEEL SELF SERVE BUG WASH!

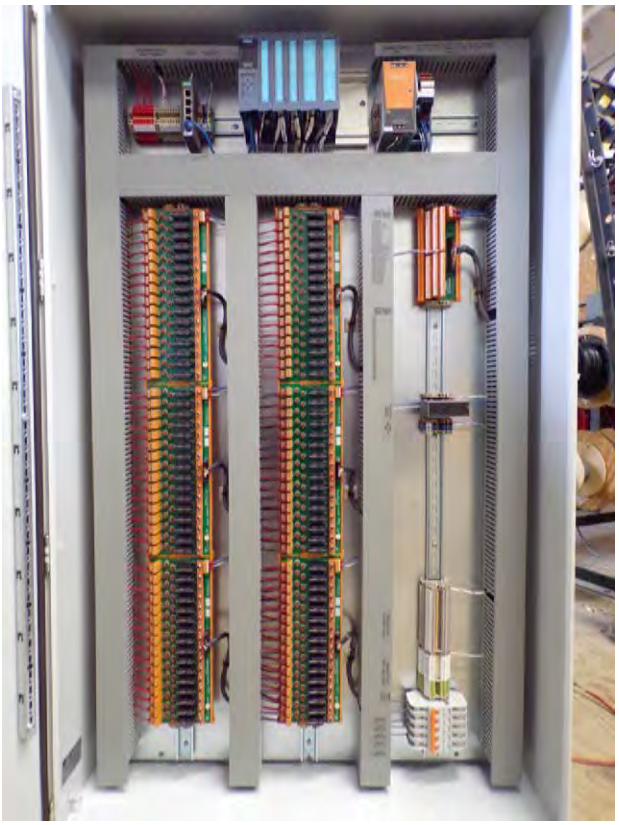
During the summer and in warmer climates, stuck on bugs pose a problem for car wash operators. With the Bug Wash self serve prep wash station, operators can be confident that all bugs will come off after the wash. This high quality all stainless steel unit has a long life able to withstand customer use or abuse. This easy to apply pre-wash is applied by customers prior to entering a wash bay. This prep wash station is suitable for multiple applications and can help remove stuck on dirt or snow sludge during the winter time. The Bug Wash prep wash station is dependable and suitable for year round use. Customize your Bug Wash station with your logo for additional fees.

Guarantee the best wash for your customers with no extra labor required.

TECHNICAL SPECIFICATIONS:

- Stainless steel tank
- Aluminum 4" x 4" post with baseplate
- Tank will hold over 30 gallons
- Drain valve in bottom of the tank
- Stainless steel fitting near top to plumb in for easy filling
- Shelf inside tank to keep brush from going all the way to the bottom of the tank
- Stainless steel tray to hold sponges

CUSTOMIZE YOUR BUG WASH AND TRASH CAN



Washlink V5 Tunnel Equipment Controller is a quality brand, PLC based tunnel controller that coordinates and controls all conveyor and wash equipment. The controllers are also available to upgrade older or competitor systems in both a controller as well as a controller package for a system.

BETTER TECHNOLOGY

- Siemens S7 1500 PLC
- 500 Functions
- Up to 256 Outputs
- Programmable Inputs
- Built in Analog Inputs
- Map Functions to Outputs
  Each Relay/Function can control multiple Outputs Single relay can control wrap retract, mirror, hitch, etc.
- Map Inputs no limit on Stop Inputs, Low Level Alerts, etc.
- New Output Boards
  Hand Off Auto switches on each relay
  Robust 8amp, 30 million cycle relays
  DPDT Relays
  Fuse protection on both sets of contacts
  Built in fuse tester
  Simplified field wiring
- New Input Boards
  24vdc at each Input
  Simplified field wiring
- Enhanced Open Bed Detection
  OBD built into PLC code
  Off Point now rear of vehicle, not distance
- UL Listed and CE Mark

BETTER CONTROL

- No Tire Switch Detected alerting
- Enhanced Roller Counter and & detect control Better flexibility to use either detect, or count
- Force Outputs based on Input Status
  Shut off Conveyor Output if Low Air Input received
- Enhanced Send Car functionality
  Better control of Entrance signage

BETTER PROBLEM SOLVING

- "Do it now" Function and Output groups
  Prep Gun Timer, Retract Now etc.
- "Oh No I Forgot!" Function and Output Groups Adds Output to package even after vehicle is in enter switch
- Simulate Enter Signal multiple ways
  From Package Send, Roller up, Push Button
- Simulate Tire Switch

SITE REQUIREMENTS:

- Cat 5 cable from Director PC location to Equipment Controller
- Broadband Internet Connection for remote access, alerts etc. (Optional but Highly Recommended)
- Input Devices. i.e. Pulse, Enter, Roller Detect, Collision Avoidance, Start Stop Stations, etc.
- 24vac Low Voltage Transformer (750va recommended)

BASIC CONTROLLER PACKAGE

- Photoelectric Eyes with stands
- Standard Pulse Switch (12 Tooth) included with RCV Conveyor
- Warning horn 24V
- Long Range Proximity Roller Detect Switch Kit
- Low-voltage transformer 750va
- Includes Pre-Programming of your controller when ordered as part of an equipment package

CONVEYOR CONTROLLER PACKAGE

- Photoelectric Eyes with stands
- Hydraulic Accu-Pulse pulse
- Warning horn 24V
- Long Range Proximity Roller Detect Switch Kit
- Low-voltage transformer 750va
- Includes Pre-Programming of your controller when ordered as part of an equipment package

CONTROLLER OPTIONS

- Collision Avoidance Sensors
- Tire Protectant Controller
- Open Bed Truck Controller
- Electronic Sensor Pad
- Stop/Start Station with twist lock button
- Remote Push Button (Non-Locking)

WASHLINK POS CASH MANAGEMENT SYSTEM

- Large 15" touch screen with unprecedented functionality, durability, quality and affordability
- Heavy duty cash drawer
- High speed thermal receipt printer
- Biometric (finger print) login for maximum security
- Integrated card reader and barcode scanner for credit, debit and gift/loyalty cards
- Fully integrates with Hanna System Controls equipment controller, but functionally independent – sales terminal with never shut down car wash tunnel operation
- All standard reporting including cars/man hour, labor $ and %, etc.
- Suggestive selling on all packages to promote up-selling by employees.
- Module for gift/loyalty/fleet/unlimitedprovides high powered sales tool
- Module for high speed credit car clearing can be used with customer's bank of choice
- Wireless handheld sales terminal accepts credit cards and prints receipts remotely
- Multiple cash drawer and multiple terminal support for maximum cash control and flexibility
- Hanna system equipment controller interface built in
- Customizable reports will export to user spreadsheet programs such as Excel or QuickBooks
- E-mail/text messaging provides on-the-go reports and alerts
- Remote access to all screens from any computer with internet access
- Multi site replication between all stores and office or home
- Uninterruptible power supply for maximum protection

MOTOR CONTROL CENTER

Our MCC's are designed to start and protect the electric motors in HCW Wash Systems and provide branch circuit protection required by the National Electric Code and other international electrical safety standards.

STANDARD FEATURES:

- UL / CE listed panels (additional charge for CE listed panels)
- Thru-door disconnect
- Industrial Nema 12 enclosure
- Control power kill switch stops all wash functions
- Labeled Hand, Off, Auto (HOA) switches for each motor
- Electrical schematic on panel door and in print form
- Standard, name brand, industrial components
- Individual lock off provision for all motors
- Cooling fans included on most cabinets
- Time delay relays included to "stagger start" up to eight motors
- Available as Standard Start (X-Line), Soft Start or VFD controlled starters.
- All MCC's are manufactured as top feed for power unless otherwise specified in writing at time of placing order
- Customer is responsible for any additional cost resulting from power company special requirements such as locked rotor amps.
- Please state any special code requirements for your area, as any additional modification will be charged to distributor/customer.
- Systems must be tested for correct FLA on motor and voltages to validate the warranty of the electrical panels and motors returned to HCW.

OPTIONAL FEATURES:

- Circuit breakers
- Embedded PLC to connect to V4 Controller
- Thru-Door Touch Screen to monitor MCC performance

COLEMAN HANNA CARWASH SYSTEMS LLC

AN O'HANRAHAN COLEMAN COMPANY

QUALITY CAR WASH EQUIPMENT FOR OVER 60 YEARS.

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