

SMART WASH TUNNEL 5000

An Automation Dynamics Product



**OVER 20
YEARS OF
CART WASHING
EXCELLENCE!**

**OUR EXISTING AND RETURNING CUSTOMERS
ARE THE TESTAMENT TO OUR
SUCCESS IN THE INDUSTRY!**

Manufactured in the **USA** by:

605 N High Street
Independence, MO 64050
www.adllc.com / (877) 482-7200



SMART WASH TUNNEL 5000

Exit Drip/Dwell Area:
Size customized to needs based on cart quantity and dwell times.

Optional, 30HP Blower:
W/ Cart Coverage Manifold

Optional, Building Shell:
304 Stainless Steel
Construction, adjustable
length.

Safety and
Instructional
Decals at
entrance.

Hydraulic Power Pack:
Runs Conveyor chain, forward
and reverse options with safety
controls.

High Pressure Pump:
Provides High pressure
water to Rinse Arch.

Interface Panel located
at entrance for easy
operation.

AD Controls built in-
house and are ETL/CA
certified.

Drive Section:
Draws carts through
tunnel on conveyor
chain.

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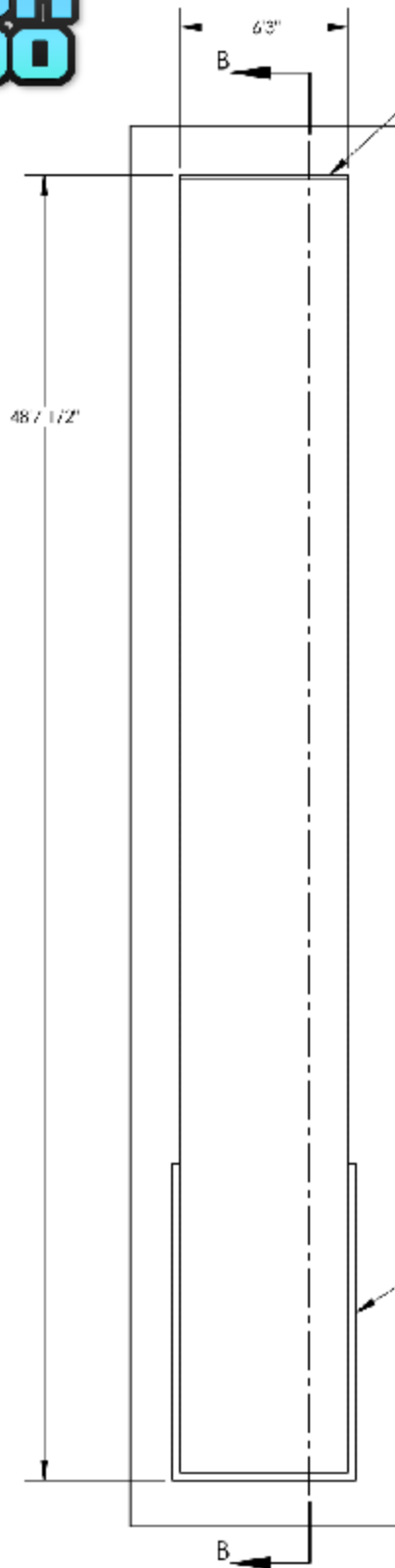


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Drain Located on Entrance End. Slope Depth varies depending on overall system length.

1° Slope Towards Entrance

SECTION B-B



Concrete Keyed at entrance for grating.

Concrete Keyed around perimeter of Drip/Dwell Area for grating support.

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Automation Dynamics

"Developing Automation at the Speed of Technology"

Model 5000 6000 and 7000 Cart Washer Videos:



How the team at Madison United Healthcare team feels about their new Automation Dynamics Cart Washer with Elevator.



AlSCO Houston tunnel Cartwash model 6000 system.

Automation Dynamics

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Automation Dynamics Cart Washer the Model 7000 Tunnel Cart Washer.



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Automation Dynamics Cartwash Systems:

- **AD equipment is made in the USA.**
- **Experience in Excellence and Number of years in service**
 - AD sold and installed our first Cart Wash system in early 2004, giving us years of experience in designing and installing in the laundry industry. Our existing and returning customers are the best references we have for our success in this industry.
- **Focus, the Cartwasher is one of our main product lines:**
 - The Cartwash is not just a product that we sometimes offer it is a major component that we manufacture and support as part of our daily business.
 - We offer in-house support inhouse as well as maintenance contracts to partner with our end customers to make sure the systems are running correctly.
- **Quality/Safety:**
 - The weight capacity of our system is up to 200 pounds per cart.
 - We use high quality Stainless Steel and heavy gauge where needed to ensure the systems last!
 - Quality of our components
 - We use only the best quality components in our equipment.
 - Pumps are Grundfos – this is the same pump the Bellagio hotel in Vegas uses to put on the water show every hour.
 - Our electronics are all name brand and supported throughout industry and the world.
 - We use either stainless plumbing or CPVC for the lines that require 100% chemical resistance.
 - All other components can be sourced through AD or locally.
 - We believe that the end user should not have to be held hostage by the equipment vendor for parts. We design the system so that many of the components can be bought from AD direct or off the shelf from local vendors.
 - All our units are evaluated complete in-house prior to shipping. Our internal testing involves.
 - Max Water Temperatures are 175-degree Fahrenheit.

- Safety. We incorporate safety into our systems that do not allow the operation of the system if the unit doors are not closed and E-stops located on the entrance, inside and exit sides of the unit.
 - The unit interaction with the local production team if there is an issue is simple and easy to stop the system...it is also just as easy to restart the system once the area is safe and ready.

- **Intellectual Property, Technical Components and Software:**
 - AD is a 508A UL panel shop. This means we can build and put UL stickers on all the electrical equipment and components that we build.
 - This is an important thing for our end customers as they can be assured the electrical components and systems are built to UL standards and are safe to use in the environments we install.
 - AD develops and supports the HMI and PLC software that we use to operate our systems.
 - This means that if there is an issue you only must call AD for support and not worry about a third-party interface that we have no control over fixing or updating if needed.

- **Cycle Options, AD Sales and Customer Interface process:**
 - The Cartwash system has an HMI interface where the system is designed to allow the end user to program an amount of time for the various stages.

 - However, our system will come with a pre-set wash package that was used in the testing of the system prior to shipping.
 - High Pressure Rinse is set to 15 seconds. The cycle involves the system applying a high-pressure stream of water onto the carts surface with adjustable nozzles so that cart coverage can be achieved.
 - High Pressure Rinse achieves up to 200psi plus.
 - Disinfect is set to 15 seconds. The cycle involves the system applying an approved disinfectant that is applied to the cart surface.
 - Disinfect pressures are 40-60psi.
 - Blower Option is set to 45 seconds. The cycle involves the system applying a high volume of air from the roof mounted blower onto the cart's surface.
 - Based on the above timing the system can produce up to 30 carts per hour

- Cart Coverage/Cleaning action is divided across the cart at a rate of 50% Interior and 50% Exterior of the cart.



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the Speed of Technology"*

Attachment A:

Automation Dynamics: Machine Installation, Startup and Training Services

Note: Due to fluctuating travel costs, Automation Dynamics' labor expenses will be quoted on a per job basis.

All Equipment Labor Rate:

- \$1000.00 per day per technician for additional days requested or required due to purchase delays.

Expenses will include one or more of the following:

- Airfare
- Rental car
- Mileage
- Hotel
- Meals

Installation:

- The Automation Dynamics will place the equipment in the position in which it is to be installed.
- The Customer/Purchaser to provide the necessary utilities, power, plumbing, air pressure, and roofing to the installation site prior to the hook-up and installation date.
- Unless otherwise noted in the sales order, all expenses of cranes, forklifts and manpower needed to transfer the Automation Dynamics, equipment from the carrier to the final installation site are the Purchaser's responsibility.
- The Purchaser will provide the necessary personnel and equipment to assist the Automation Dynamics Supervisor in the installation and final hook-up of the equipment.
- The customer is responsible for meeting all local, state and national codes relating to the equipment at the Purchaser's premises.
- The Purchaser understands that if the installation is delayed while the an Automation Dynamics technician or supervisor is on site due to the "End User or the Purchaser" not

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being prepared for the installation and a return trip is required, then the Purchaser understands and agrees that the return trip will be billed as a "PO Trip" at the rates listed above.

Automation Dynamics upon completion of the installation and startup employee training:

- Upon completion of the training customer must sign form agreeing that all work and training has been completed to the Customer/Purchaser's satisfaction.
- The Purchase will insure that the personnel to be trained are available without distraction during the training period.
- These startup dates and training services are to be conducted during the normal working hours, Monday through Friday, not including holidays.

Warranty:

- For full details of warranty see attachment B.



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Attachment B

Automation Dynamics, LLC Standard Limited Warranty

We would like you to know that each manufacturer we buy from has a proven record of accomplishment in customer service as referenced to warranty items. We also make an effort to purchase as many components from national suppliers like W W Granger, etc. for your convenience. However, items or parts that have obvious abuse or misuse will not be approved for warranty exchange. All items will be subject to the prospective manufacturer's approval process. We as distributors of the item or part do not have the final authorization to issue warranty.

EXPRESS LIMITED WARRANTY. Automation Dynamics LLC warrants that: (a) the software will perform substantially in accordance with the accompanying Product Manual(s); and (b) that all labor for off-site technical support on new equipment (excluding repair jobs) is free for a period of 90 days from the date of installation; and (c) any CountMaster™ hardware will be free from defects in materials and workmanship under normal use and service for a period of 1 year from the date of receipt.

- Freight charges involved in warranty repair or exchange are NOT included.

CUSTOMER REMEDIES.

Automation Dynamics as an OEM Company depends on the "parts manufacturer's warranty" and we pass this warranty along through the sales cycle. This is common among manufacturing processes. As the reseller of the components and parts that comprise the CountMaster™ product we will do our best to represent the warranty claim on our customers' behalf.

Warranty support is as follows: Support is divided between hardware and software.

Hardware: (all hardware carries a one-year warranty from the date of purchase).

- **Computer Hardware support procedure:**
 - Computers will be handled on a repair basis. Ship the unit to us freight prepaid round trip and we will repair the unit or replace it and ship it back. If the repaired computer needs to have the software reloaded and the network set up, there will be a charge of at our standard hourly above this statement of warranty. We will fax a request confirmation on such set up fees to clarify charges are approved and the customer has proper notice.
- **Other Hardware**

- Structural components, such as the table and accumulator bin, will be repaired by the company on site at no charge within the first year, except for customer abuse and acts of God.
- Electronic components like electric eyes, solenoids, and PLCs need to be carefully inspected and tested by the customer before assuming they are bad. Often these components will need adjusting or cleaning to work properly. Electronic components and other hardware items will be sent to Automation Dynamics for first review and if necessary, we will ship them back to the original manufacture for warranty review. See below for manufacture procedure and liability statements.
- **Software** support is via a dial up modem. Customer must provide a successful connection between a telephone line and modem at their location. At times, it may be necessary to transfer data via tape backups and other storage devices through the mail.
 - The software will work as documented in the manual, and if not, fixes will be provided quickly and placed on your unit via modem at not charge.
 - NOTE: If problems, other than detailed above occur, such repairs will be chargeable, unless such items are covered under your support agreement.
- MANUFACTURE'S LIMITATION OF LIABILITY
The manufacture has four options; such liability is limited, at the exclusive option of the manufacturer to either:
 - Denied warranty and issue a report why.
 - Approve the part for Replacement.
 - Approve the part for Repair and repair the part.
 - Verify the part is not bad as claimed and return it as usable.

If we have mailed to you a replacement part (non-loaner) before we know if your part is covered under warranty by the manufacture, one of the following will occur:

- If the warranty item is approved for replacement by the manufacture and they have shipped us a replacement part, we will put the new item in our inventory and you may keep the item you received from us. We will credit all but the freight charges from your invoice.
- If the warranty item is approved for Repair, we will return the repaired item to you for your use. We will not be able to take back the new part we supplied to you as it is now used. We will bill you for the new part and suggest you store the repaired part in your inventory for future emergency use.
- If the item is denied, we will inform you and ask if you would like the item returned. The new item you received from us, as a replacement, will remain on your invoice and handled under normal billing terms.

EXCLUSION OF LIABILITY / DAMAGES. The following is without prejudice to any right that you may have at law, which cannot legally be excluded or restricted. Except as and to the extent provided in this statement / agreement, Automation Dynamics, LLC (or related company) will NOT in any circumstances be liable for any other damages whatsoever (including, without limitation, damages for loss of business, business interruption, loss of business information or other indirect or consequential loss) arising out of the use or inability to use or supply or non-supply of the SOFTWARE and any accompanying hardware and written materials. Automation Dynamics, LLC (or related company of either) total liability under any provision of this agreement is in any case

limited to the amount actually paid by you for the SOFTWARE and / or CountMaster hardware. Because some states/jurisdictions do not allow the exclusion or limitation of liability for consequential or incidental damages, the above limitation may not apply to you.

NO OTHER WARRANTIES. To the maximum extent permitted by applicable law, Automation Dynamics, LLC and its suppliers disclaim all other warranties, either express or implied, including, but not limited to implied warranties of merchantability and fitness for a particular purpose, with regard to the SOFTWARE, the accompanying written materials, and any accompanying hardware. This limited warranty gives you specific legal rights. You may have others, which vary from state/jurisdiction to state/jurisdiction.



AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

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Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Lake Forest, CA

Control Number: 3182658

Authorized by: _____
for Thomas J. Patterson, Certification Manager



This document supersedes all previous Authorizations to Mark for the noted Report Number.

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Standard(s):	UL 508A Issued: 2013/12/20 Ed: 2 Rev: 2014/01/13 Industrial Control Panels CSA C22.2#14 Issued: 2013/03/01 Ed: 12 Industrial Control Equipment
Product:	Industrial Control Panels For General Use Industrial Control Panels For Industrial Machinery
Models:	Industrial Control Panels