



# ULTRA GANTRY

## AUTOMATIC WASH SYSTEMS





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The InterClean Ultra Gantry is a heavy-duty, automatic rollover wash system based on a modular configuration. These systems feature a diverse mix of selectable and built-in programming elements, controls and functional features.

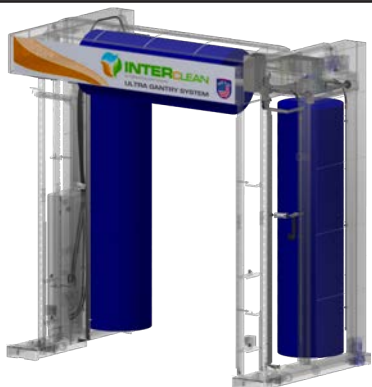
- » Choice of touchless, friction, or hybrid cleaning modules.
- » Full line of safety features including emergency stops, safety bars, and rail safety plates.
- » Smaller footprint options for locations limited by available space or layout challenges.

## IDEAL SOLUTIONS FOR

- » Municipal Fleets
- » School Buses
- » Public Work Fleets
- » Motor Coaches
- » Transit Buses
- » Waste Management
- » Non-Standard Vehicle
- » Mixed Fleets

## ULTRA GANTRY MODULES

### FRICITION



3 BRUSHES USE **TOTAL BRUSH CONTROL** TECHNOLOGY TO CLEAN THE TOP, SIDE, FRONT AND REAR SURFACES.

TRUCK WASHES, TRANSIT AND SCHOOL BUSES, STANDARD SHAPED VEHICLES.



### TOUCHLESS SPINNER

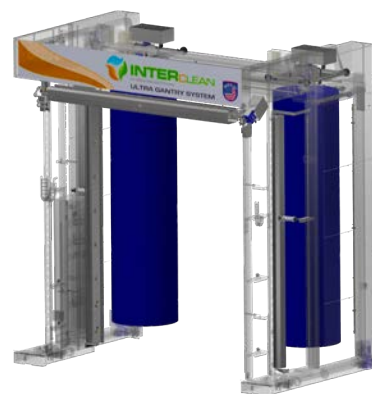


HIGH-PRESSURE WATER JETS EFFECTIVELY CLEAN VEHICLES WITH AREAS BEYOND THE REACH OF BRUSHES.

PUBLIC WORKS, WASTE MANAGEMENT, CONSTRUCTION, NON-UNIFORM FLEETS.



### HYBRID



A COMBINATION OF HIGH-PRESSURE WATER AND 2 VERTICAL BRUSHES PROVIDE A COMPLETE CLEAN.

UNIFORM FLEET VEHICLES, TRANSIT BUSES, MIXED FLEETS.



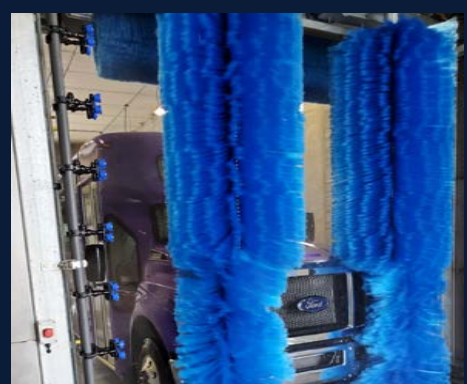
# EXPLORE OUR **ARRAY OF MODULES AND FEATURES** TO DISCOVER THE CONFIGURATION UNIQUELY SUITED TO **MEET THE NEEDS OF YOUR ENTIRE FLEET**



## **TWO BRUSH** **TRANSIT**

(2) side brushes apply friction cleaning to sides, front and rear surfaces. Dual nozzle, adjustable detergent spray bars are mounted on each side of the gantry. Water recycling system employs reclaimed wash water for rinse and under chassis wash functions.

*Optional feature: Mop spray bar and mops mounted to the upper Gantry frame for rinsing then wiping the top of the vehicle.*



## **THREE BRUSH HYBRID** **FLEET**

Friction applied via (2) side and (1) top brush to clean top, front, side and rear surfaces. V-spray for added rinse. Tall machine height provides suitable clearance for taller vehicles. Multiple wash programs enables cleaning high volumes of vehicles in varying sizes and styles.

*Equipped with Automated Mirror Avoidance Program.*



## **TOUCHLESS SPINNER** **PUBLIC WORKS**

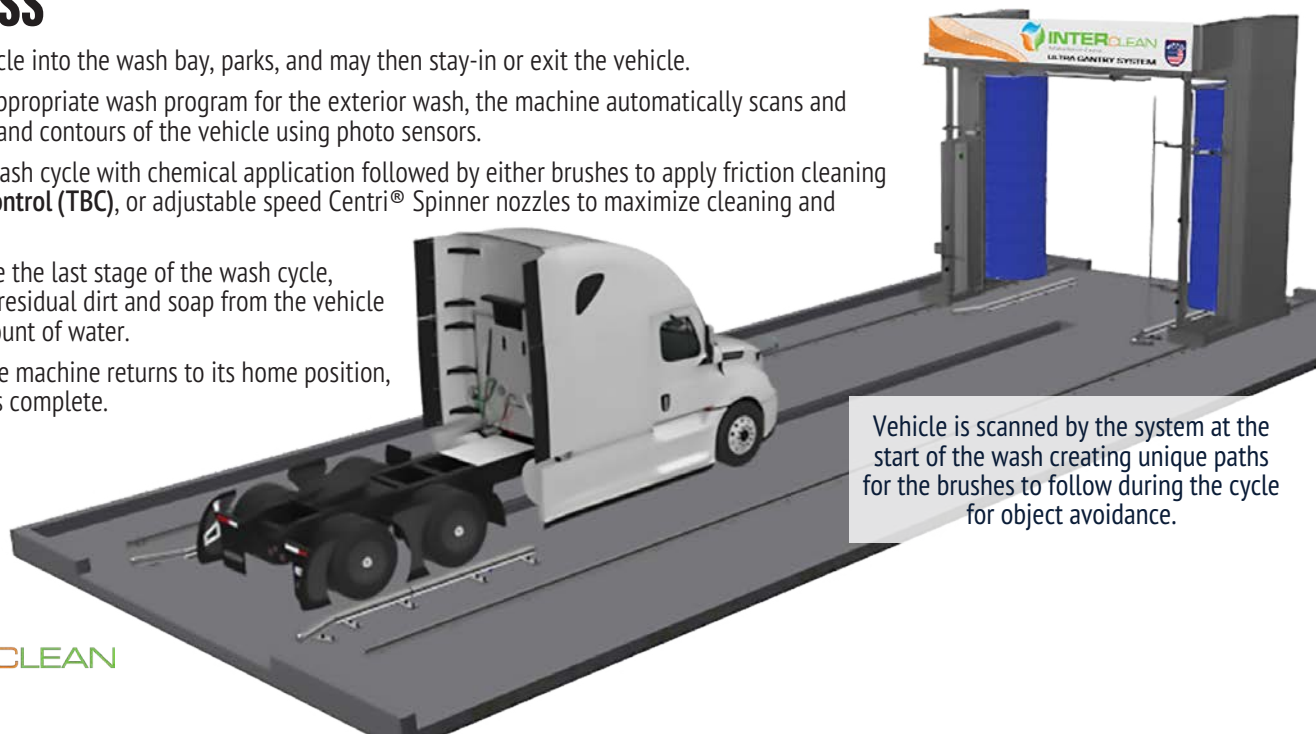
Zero-degree solid-stream nozzles apply high-pressure cleaning over vehicles top, sides, front and rear surfaces. Chassis wash cleans and degreases vehicle undercarriage. Small and large vehicles are washed in under 5 minutes. Recycles up to 95% of the water used for washing.

*Washes not only standard buses and trucks but also fire trucks, aircraft refueling trucks, graders, snowplows, tankers, bulldozers and more.*



## **WASH PROCESS**

- » Operator drives vehicle into the wash bay, parks, and may then stay-in or exit the vehicle.
- » After selecting the appropriate wash program for the exterior wash, the machine automatically scans and locates the position and contours of the vehicle using photo sensors.
- » System begins the wash cycle with chemical application followed by either brushes to apply friction cleaning using **Total Brush Control (TBC)**, or adjustable speed Centri® Spinner nozzles to maximize cleaning and coverage.
- » Final rinse arches are the last stage of the wash cycle, designed to remove residual dirt and soap from the vehicle using a minimal amount of water.
- » Upon completion, the machine returns to its home position, signaling the wash is complete.



Vehicle is scanned by the system at the start of the wash creating unique paths for the brushes to follow during the cycle for object avoidance.



# CLEANING APPLICATIONS

## FRICTION CLEANING

Total Brush Control (TBC) technology was created by InterClean specifically for our Gantry style friction wash modules.

- » Brushes used to wash the front, sides, rear, and top vehicle surfaces.
- » Safeguards elements such as mirrors and bike racks from damage when the wash is in progress.
- » Individual brush modules are self-monitored and self adjust the brush movement, location, travel speed, brush crush (pressure) and RPM.



### TOP BRUSH

Cleans the front, top, and back surfaces of the vehicle using Total Brush Control technology.



### SIDE BRUSHES

Side, rear, and front surfaces cleaned using wrap-around and overlapping brush movements.

## TOUCHLESS CLEANING



### V-SPRAY BAR

High-pressure flat spray nozzles mounted onto pivoting frames remove dirt and coarse particles from front, rear and side surfaces.



### CENTRI® SPINNER

High-volume, medium-pressure Centri® Spinners use zero-degree rotating nozzles for a precision clean on any shape vehicle.



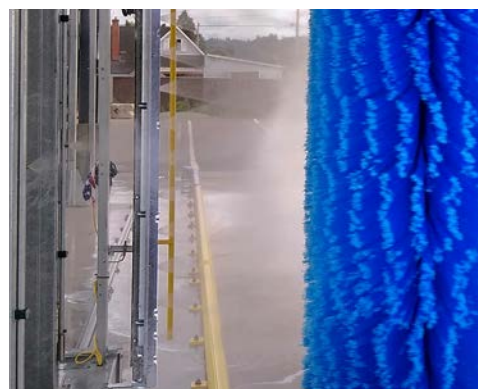
### OSCILLATING SPRAY BAR

Bar scans vehicle and positions top and side arches for maximum wash coverage with high-pressure oscillating jets.

## DETERGENT ARCH

Customizable wash programs allow for varying chemical applications, brush actions, rinses, dwell times and more.

- » Create unique programs for different vehicle types or desired level of cleaning.
- » 1- or 2-step chemical application available.



### PIVOTING SPRAY BAR

Pneumatically actuated for uniform detergent application.

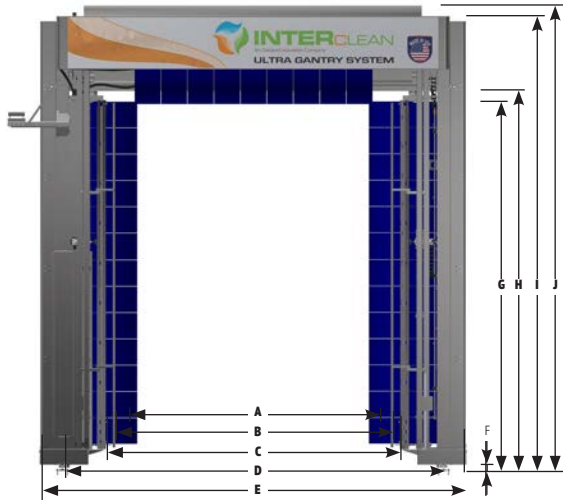


### FIXED SPRAY BAR

Fixed position front and rear spraying nozzles for full coverage of the vehicle.

# SPECIFICATIONS

## DIMENSIONS



	Clearance for Wash Bay Install	212" (Short) 240" (Tall)	Stand-up Clearance Required
A	Max Brush Wash Width	116"	Includes 6" of brush crush
B	Drive Through Clearance	128"	
C	Safety Bar Clearance	130"	
D	Track Width	173"	
E	Max Machine Width	194"	
F	Floor Clearance	2.75"	Bottom of Gantry to bottom of rail
G	Max Brush Wash Height	135" (Short) 167" (Tall)	Top of side brush to floor
H	Drive Through Clearance	139" (Short) 171" (Tall)	Assembled machine w/o splash guard
I	Machine Height	174" (Short) 206" (Tall)	Assembled machine w/o splash guard
J	Wash Bay Operating Height	176" (Short) 212" (Tall)	Assembled machine w/ splash guard

## SITE REQUIREMENTS

### PIT REQUIREMENTS

(only needed for water recycling option)

Length	30'
Width	5'
Depth	8' (6'-6" water level)
<b>Water Volume</b>	7,300 gal (975 ft <sup>3</sup> )
Concrete Volume	288 ft <sup>3</sup> (assuming 6" walls)

### DIMENSIONS

#### Wash Bay

Min Wash Bay Length	Contact InterClean
Max Gantry Travel Length <sup>1</sup>	110'
Min Wash Bay Width	20'
Min Wash Bay Height <sup>2</sup>	17' 4"
Max Distance of Machine <sup>3</sup> (From Wash Bay Wall)	48"

#### Equipment Room

Friction w/Fresh Water	130-140 ft <sup>2</sup>
Friction /Recycle Water <sup>4</sup>	270-280 ft <sup>2</sup>
Oscillating HP w/Fresh Water	230-240 ft <sup>2</sup>
Oscillating HP w/Recycle Water <sup>4</sup>	370-380 ft <sup>2</sup>
Opt. Water Heater w/Softener	+70 ft <sup>2</sup>
Opt. Spot Free Rinse	+60 ft <sup>2</sup>
Fresh Water w/o 925gal Tank	3'-4" (dia)
Fresh Water w/ 925gal Tank	4' 8" (dia)
Recycle Water	6'w X 9'h

### UTILITY REQUIREMENTS

#### Incoming Water

Pressure	30 - 80 psi
Pipe Size <sup>1</sup>	Typically 2" or larger

#### Electrical

PWX Touchless Spinner w/75hp Pump	118A
Fleet & Bus 3-Brush Hybrid w/3hp Booster Pump	39A
Retail & Flex Hybrid w/2-25hp Pumps	95A

#### Pneumatic

(Compressor supplied by InterClean)

<b>Fresh Water</b>	2.6 CFM @ 90 psi
Reclaim Water	7.3 CFM @ 90 psi
<b>Natural Gas</b> (when water heater is selected)	199 kBTU/hr

CONSULT WITH INTERCLEAN FOR MORE INFORMATION:

<sup>1</sup> Longer travel length possible

<sup>2</sup> Height needed may vary based on model chosen

<sup>3</sup> Further distance from wall possible

<sup>4</sup> Plus pit

## SYSTEM ADD-ON'S

- » Traffic Light
- » Photo Eye or Loop Detector Activation

- » Data Collection and Analysis
- » Additional Wash Recipes
- » Tire Guides

- » Water Tank
- » Water Heater
- » Water Softener



### WHEEL & CHASSIS WASH

Frees the under chassis from debris, salt, and other corrosive agents.



### BLOWERS

Prevent residue, streaking, and minimize water run-out.





# EQ 100

## WATER RECLAIM SYSTEM

Recycling wash water greatly decreases the amount of fresh water needed, and disposed of by up to 90% each wash. Water reclamation saves money and enables facilities to operate efficiently in areas with high water and sewer costs, or areas that are highly regulated.

By using the efficient and cost-effective EQ 100 water recycling system, InterClean Equipment is able to employ the full force of huge volumes of pressurized wash water, which creates a cleaning impact that is simply not possible with other automatic vehicle washing systems.

The system is designed to recycle and aerate the wash water automatically, without requiring changing filters or manual supervision, and is capable of operating under the most demanding vehicle wash conditions such as recycling water used to wash garbage trucks.



The modular design requires only 25 ft<sup>2</sup> of space allowing for easy installation using a reclaim pit and almost any site configuration



## FEATURES

System Design	<ul style="list-style-type: none"><li>The InterClean reclaim system is comprised of a Settling Pit, InterScreen® maintenance free filter, and the EQ Module.</li><li>The modular footprint ensures that the equipment can be precisely configured at the factory to require a small footprint on-site.</li><li>The module is pre-wired, pre-plumbed and mounted on a skid.</li></ul>	
Settling Pit	<ul style="list-style-type: none"><li>Designed to promote separation of solids from the water.</li><li>Continuously aerated by the recirculation pump to prevent unwanted odors.</li></ul>	
Filtration	<ul style="list-style-type: none"><li>Maintenance free stainless steel InterScreen® filter is mounted in the settling pit supplying initial filtration.</li><li>Cyclonic filtering mechanisms incorporated with module to further filter the water before delivering it to the high-pressure pump.</li></ul>	
Treatment	<ul style="list-style-type: none"><li>Module comes equipped with bioremediation system to allow for enhanced water treatment capability.</li><li>The system uses no chemicals or additives and is environmentally sustainable.</li></ul>	
Dimensions	<ul style="list-style-type: none"><li>60" (150 cm) wide x 60" (150 cm) long x 102" (260 cm) tall per unit</li></ul>	
Recycling Capacity		High-Pressure Capacity for Reclaimed Water
<ul style="list-style-type: none"><li>300 GPM (1250 l/m) continuously per unit</li></ul>		<ul style="list-style-type: none"><li>50-300 GPM (200-1250 l/m) continuously per unit</li></ul>



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