## Magnum Traction Drive

For heavy duty scrubbing an optional scrub deck upgrade must be available to motors of:       NA         VACUUM MOTOR       The vacuum motor is to be protected with a ball and stainless screen system wherein the ball reacts to the level of foam inside the tank and shuts off air flow to the vacuum motor. The vacuum motor must be 3-stage and rated at:       650 watts	······ g······	
The specific model and size should be:       Magnum 24-C         This bid defines a self-propelled machine that wet "scrubs and dry" vacuums a path of:       Description         For expedited parts delivery, machine shall be made in:       Description         The machine contains separate tanks for solution and recovery water, with a minimum capacity in each tank       Solution         SOLITON TANK       Solution tank shall be made of heavy gage (.360") polyethylene plastic. Dual fill ports, with one at the front of the machine and a second at the rear. Solution screen must be stainless steel and located, with the check valve, on the scrub deck permitting top access. The solution tank specifically must hold a minimum of:       30 gallons         Recovery tank shall be made of polyethylene, that is a minimum thickness of (.360"). Tank shall be designed to be easy to clean, with complete access to the recovery tank's floor, wherein the entire inside and floor of the tank is wible and reachable. A heavy duty, discarge control, 15" diameter drain hose shall be supplied, made of latex rubber. To simplify access for planned maintenance, tank must include:       "Tip Back" feature         Recovery tank must include "Drain Saver" basket, to collect all liter in the recovery water, to keep discharge water from clogging floor drains. Drain saver basket must be constructed of stainless steel, with 1/4" mesh so a gallons       30 gallons         BUSHES/PADS       Z cylindrical brushes       20; 20 22" each         For prefered maneuverability and productivity the machine's brush head shall be raised and lowered by an electric actuator with a minimum apacity of."       50 lbs.	GENERAL	
This bid defines a self-propelled machine that wet "scrubs and dry" vacuums a path of:       24"         For expedited parts delivery, machine shall be made in:       United States         The machine contains separate tanks for solution and recovery water, with a minimum capacity in each tank       30 gallons         SOLUTION TANK       30 gallons         The solution tank shall be made of heavy gage (.360") polyethylene plastic. Dual fill ports, with one at the front of the machine and a second at the rear. Solution screen must be stainless steel and located, with the check valve, on the scrub deck permitting top access. The solution tank specifically must hold a minimum of:       30 gallons         RECOVERY TANK       Recovery tank shall be made of polyethylene, that is a minimum thickness of (.360"). Tank shall be designed to the easy to clean, with complete access to the recovery tank's floor, wherein the entire inside and floor of the tank is visible and reachable. A heavy duty, discharge control, L5" diameter drain hose shall be supplied, made of latex rubber. To simplify access for planned maintenance, tank must include:       "Tip Back" feature         Recovery tank must include "Drain Saver" basket, to collect all liter in the recovery water, to keep discharge water from cloging floor drains. Drain save basket must be constructed of stainless steel, with 1/4" mesh scrue has hall be informance the machine's scrub brushes shall be:       2 cylindrical brushes         BOY preferred maneuverability and productivity the machine shall use:       50 gallons         Scrub brushes shall be:       50 gallons         For preferred cleaning performance the machine'	Machine shall be of the type generally described as a battery-powered "automatic":	Factory Cat
For expedited parts delivery, machine shall be made in:       United States         The machine contains separate tanks for solution and recovery water, with a minimum capacity in each tank       30 gallons         SOLUTION TANK       30 gallons         The solution tank shall be made of heavy gage (.360") polyethylene plastic. Dual fill ports, with one at the front of the machine and a second at the rear. Solution screen must be stainless steel and located, with the check valve, on the scrub deck permitting top access. The solution tank specifically must hold a minimum of:       30 gallons         RECOVERY TANK       Recovery tank shall be made of polyethylene, that is a minimum thickness of (.360"). Tank shall be designed to be easy to clean, with complete access to the recovery tank for out the matchine and reachable. A heavy duty, discharge control, L5" diameter drain hose shall be supplied, made of latex rubber. To simplify access for planned maintenance, tank must include:       "Tip Back" feature         Recovery tank must include "Drain Saver" basket, to collect all liter in the recovery water, to keep discharge water from cloging floor drains. Drain save basket must be constructed of stainless steel, with 1/4" mesh screen, and be removed without tools or loose fasteners. Recovery Tank capacity shall be minimum of:       30 gallons         BOY DEFERTED       2 cylindrical brushes should operate at:       50 pin         Strub brushes shall be:       2 cylindrical brushes       50 pin         BUSHES/PADS       50 pins       50 pins         To reduce the stress on the operator, the machine's brush head shall be raised and lowered b	The specific model and size should be:	Magnum 24-C
The machine contains separate tanks for solution and recovery water, with a minimum capacity in each tank of:       30 gallons         SOLUTON TANK       Solution tank shall be made of heavy gage (.360") polyethylene plastic. Dual fill ports, with one at the front of the machine and a second at the rear. Solution screen must be stainless steel and located, with the check valve, on the scrub deck permitting top access. The solution tank specifically must hold a minimum of:       30 gallons         RECOVERY TANK       Solution screen must be stainless steel and located, with the check valve, on the scrub deck permitting top access. The solution tank specifically must hold a minimum of:       30 gallons         RECOVERY TANK       Recovery tank shall be made of polyethylene, that is a minimum thickness of (.360"). Tank shall be designed to be easy to clean, with complete access to the recovery tank's floor, wherein the entire inside and floor of the tank is visible and reachable. A heavy duty, discharge control. 1.5" diameter drain hose shall be supplied, made of later rubber. To simplify access for planned maintenance, tank must include:       "Tip Back" feature         Recovery tank must include "Drain Saver" basket, to collect all liter in the recovery water, to keep discharge water from clogging floor drains. Drain saver basket must be constructed of stainless steel, with 1/4" mesh streen, and be removed without tools or loose fasteners. Recovery Tank capacity shall be minimum of:       30 gallons         BRUSHES/PADS       Solution and reduce damage to the floor, the machine's scrub bressore control shall be automatic, with a LOP readout showing the:       50 lobs.         To reduce the stress on the operator, the machine's brush head sh	This bid defines a self-propelled machine that wet "scrubs and dry" vacuums a path of:	24"
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SQUEEGEE	The vacuum motor is to be protected with a ball and stainless screen system wherein the ball reacts to the level of foam inside the tank and shuts off air flow to the vacuum motor. The vacuum motor must be 3-stage	650 watts
	SQUEEGEE	
	control water. It shall be protected against impact with "Nep Marking" 4" diameter side wheels and a	

Squeegee shall be curved, with four usable edges on the rear blade. It shall move when the machine turn control water. It shall be protected against impact with "Non-Marking" 4" diameter, side wheels, and a breakaway feature. For preferred water recovery, the squeegee shall have a minimum width of:

## DRIVE SYSTEM

Machine shall have an "all-gear" transaxle, that powers "two wheel drive" for improved traction and stability. Single tire or chain drive units will not be acceptable. Traction system shall be infinitely variable in speed and shall include a **(PWMC)** motor control, with speed cut to 50% for reverse. The traction motor shall be rated at a minimum of: 450

450 Watts

32"

Magnum 24-C

TIRES / CASTERS	
For preferred machine stability, only machines with a 4-point stance will be acceptable. Machines will 3-point stance will not be considered.	1 Doint Stones
	4-Point Stance
Front drive tires shall be solid, cushion, non-marking and size minimum of: Rear caster wheels shall be solid, low rolling resistant, non-marking and size minimum of:	Qty 2: 11" dia x 2" wide
Rear Caster wheels shall be solid, low rolling resistant, non-marking and size minimum of.	Qty 2: 5" dia x 2" wide
BATTERIES	
Scrubber shall include at least 4 batteries, to form a minimum of 24-volt DC system. Batteries must be located	
in a 14" tall, plastic battery tray to contain any and all fluids. The battery size must be a minimum of:	(Qty 4) 245 ah
For extended run time, optional battery upgrade and charger should be quoted in the size of:	(Qty 4) 325 ah
Battery brand must be:	Trojan
CHARGER Standard Charger shall be "shelf mounted", and fully automatic type, running on 110-volt / 60-Hz / AC power.	
It shall provide a minimum of 24-volt DC output of:	25 amps
	25 011195
CONTROLS	
A button control system shall be situated within the metal handlebar, arranged to allow operator to engage	
forward speed with the fingers of either hand. For operator ease and more stable control, the speed control	
must be a separate control, located on the dashboard. Twist grip controls which govern direction change	
along with speed, will not be considered.	
The instrument panel shall include an LCD-Type display with an "Operating Mode" and icons for battery gauge, scrubbing pressure, scrub On, vacuum On, water flow On. It shall also include a "Maintenance Mode", with 4	
hour meters for Key On, Vacuum On, Scrub On, Traction Drive On	
The squeegee shall be lifted and lowered by a simple lever, with the vacuum automatically operating	
whenever the squeegee is lowered. To more completely dry the squeegee hose, and reduce discharge back	
onto the floor, the vacuum shall have a timer that engages when the squeegee is lifted to the off position that	
operates for:	21 seconds
DIMENSIONS	
DIMENSIONS Machine maximum dimensions shall be:	(63"l x 28"W x 43"H)
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	(63"L x 28"W x 43"H) 657 pounds
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Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made	657 pounds 7-gage (3/16")
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Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable.	657 pounds 7-gage (3/16")
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS	657 pounds 7-gage (3/16") Stainless Steel
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires	657 pounds 7-gage (3/16") Stainless Steel Standard
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: <b>CONSTRUCTION</b> For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. <b>OTHER FEATURES / OPTIONS</b> Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black)	657 pounds 7-gage (3/16") Stainless Steel Standard Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: <b>CONSTRUCTION</b> For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. <b>OTHER FEATURES / OPTIONS</b> Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Standard Standard
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Standard Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: <b>CONSTRUCTION</b> For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. <b>OTHER FEATURES / OPTIONS</b> Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Standard Optional Optional Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose Onboard Soap (SUDS)	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Optional Optional Optional Optional Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose Onboard Soap (SUDS) Vacuum Wand	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Optional Optional Optional Optional Optional Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose Onboard Soap (SUDS) Vacuum Wand Sealed Batteries	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Optional Optional Optional Optional Optional Optional Optional Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. OTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose Onboard Soap (SUDS) Vacuum Wand Sealed Batteries Onboard Charger	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. CTHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose Onboard Soap (SUDS) Vacuum Wand Sealed Batteries Onboard Charger Stainless Steel Baffle	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional
Machine maximum dimensions shall be: Machines maximum weight (including batteries) shall be: CONSTRUCTION For preferred durability and longevity the scrubber's main frame shall be made of a steel, powder-painted to resist corrosion, and of a thickness of at least: This heavy gage frame shall fully support the weight of the batteries, the tanks, hold the scrub deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the scrubber shall be made of: No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable. CHER FEATURES / OPTIONS Non-Marking Tires Solid HD Tires (P7 Rubber / Non-marking black) Manager's Lock-out of Down Pressure Manager's Lock-out of Solution Flow E-Stop Remote Spray Hose Onboard Soap (SUDS) Vacuum Wand Sealed Batteries Onboard Charger Stainless Steel Baffle Stainless Steel Disk Scrub Deck	657 pounds 7-gage (3/16") Stainless Steel Standard Optional Standard Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional Optional

Scrub Deck HD Jaws

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