

SPORT Traction Drive Scrubber

SPORT EDGE 24" / 155-24TE

GENERAL

Machine shall be of the type generally described as a battery-powered "automatic":

Tomcat

The specific model and size should be:

SPORT 24-E

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 of:

10 gallons

SOLUTION TANK

The solution tank shall be made of heavy gage (.3125") 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 on the underside of the frame permitting bottom access. The solution tank specifically must hold a minimum of:

10 gallons

RECOVERY TANK

Recovery tank shall be made of polyethylene, that is a minimum thickness of (.3125"). 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 with twist cap, shall be supplied and 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 debris in the recovery water, to keep discharge water from clogging floor drains as well as a Stainless Steel Baffle to separate foam from the vac screen. Drain saver 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 a minimum of:

10 gallons

Recovery Tank must include a Recovery Lid that is the full size of the Recovery Tank, that allows visible access to the White Vacuum Filter, and is:

Fully Transparent

BRUSHES/PADS

For preferred maneuverability and productivity the machine shall use:

1 Rectangular Pad

Scrub brushes/pads shall be:

(1x) 24" x 14"

For preferred cleaning performance the machine's scrub brushes/pads should operate at:

2500-rpm (Oscillates 1/4")

To allow for a "Stripping" and "Scrubbing" Mode, the unit must be equipped with the Dual Speed Deck Option:

Optional

BRUSH HEAD

To reduce the stress on the operator, the machine's brush head shall be raised and lowered by an electric actuator with a minimum capacity of:

125 lbs

To achieve consistent performance and reduce damage to the floor, the machine's scrub pressure control shall be automatic, with a LCD readout showing the:

5 Pressure Settings

To restrict unauthorized changes to the scrubbing pressure, the "Manager's Lockout" must be:	Included
To restrict unauthorized changes to the solution flow, the "Manager's Lockout" must be:	Included
BRUSH MOTOR	
The scrub motor shall be heavy duty, permanent-magnet DC:	(1x) 1.0 hp / 2500-rpm
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:	3-Stage / 0.8 hp - 640 watts
SQUEEGEE	
Squeegee shall be curved, with four usable edges on the rear blade which shall be changed toolless, with the squeegee removal latch. It shall move when the machine turns to control water and swivel back to straight. It shall be protected against impact with "Non-Marking" 4" diameter, side wheels, and a breakaway feature. It shall also be equipped with adjustable casters for squeegee height control (blade deflection) and a front blade with different hole pattern from on top and bottom for different floor types. For preferred water recovery, the squeegee shall have a minimum width of:	
	36"
To reduce potential recovery water discharge back onto the floor when squeegee is raised, the Squeegee Hose shall have a Pig Tail Trap.	Standard
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:	559 Watts
Machine shall have two separate speeds controlled by the controller automatically - Transport Speed and Scrub Speed which shall be rated at:	100% Speed / 80% Speed
TIRES / CASTERS	
For preferred machine stability, only machines with a 4-point stance will be acceptable. Machines with 3-point stance will not be considered.	4-Point Stance
Front drive tires shall be solid, cushion, non-marking and size minimum of:	(2x) 8" dia x 2" wide
Rear caster wheels shall be solid, low rolling resistant, non-marking and size minimum of:	(2x) 2.5" dia x 1.38" wide
BATTERIES	
Scrubber shall include at least 2 batteries, to form a minimum of 24-volt DC system. Batteries must be located in a 7" tall, plastic battery tray to contain any and all fluids. The battery size must be a minimum of:	130 ah

For extended run time, optional battery upgrade should be quoted in the size of: 150 ah
Battery brand must be: Trojan

CHARGER

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: 12 amps

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 the Battery gauge, Scrubbing deck downpressure, Scrubdeck On, Vacuum On, and Water Flow On. It shall also include an hour meter section with 4 hour meters for Key On, Vacuum On, Scrubdeck On, and Traction Drive On.

The squeegee shall be lifted and lowered by a simple lever, with the vacuum automatically operating whenever the squeegee is lowered. Electrical Vacuum Switch components shall be mounted internally inside the steel Central Command box. 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: 10 Seconds

DIMENSIONS

Machine maximum dimensions shall be: (45"L x 21"W x 39"H)
Machines maximum weight (including batteries) shall be: 410 - 460 lbs

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: 7-gage (3/16")

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: Stainless Steel

No machine with casters or transaxle mounts that bolt directly to the tanks will be acceptable.

OTHER FEATURES / OPTIONS

Non-Marking Tires Standard
Solid HD Tires (P7 Rubber / Black) Optional
E-Stop Optional
Remote Spray Hose Optional
Onboard Soap (SUDS) Optional
Vacuum Wand Optional
Sealed Batteries Optional

Onboard Charger	<i>Optional</i>
Stainless Steel Baffle	Standard
Stainless Steel Scrub Deck	NA
Aluminum Scrub Deck	Standard
Parking Brake	<i>Optional</i>
Disk Scrub Deck Shrouds	NA
(3x) 1/2" Removable Scrub Deck Weight Plates	Standard