

# XR Rider Scrubber

XR 45-D

## GENERAL

Machine shall be of the type generally described as a battery-powered rider scrubber:

Tomcat

The specific model and size should be:

XR 45-D

This bid defines a self-propelled machine that wet "scrubs and dry" vacuums a path of:

45"

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:

68 gallons

## SOLUTION TANK

The solution tank shall be made of heavy gage (.360") polyethylene plastic. A fill port at the front of the tank. Solution screen must be stainless steel and located, with the check valve, inside the axle mount cavity, where it is accessible from the top side. The solution tank specifically must hold a minimum of:

68 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, 2.0" 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 also 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 screen, and be removed without tools or loose fasteners.

68 gallons

## BRUSHES/PADS

For preferred maneuverability and productivity the machine shall use:

2 disk brushes

Scrub brushes shall be:

Qty: 2 @ 23" each

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

265 rpm

## 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:

500 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 scrubbing pressure, the "Manager's Lockout" must be:

Standard

To restrict unauthorized changes to the solution flow, the "Manager's Lockout" must be:

Standard

## BRUSH MOTOR

The scrub motor shall be heavy duty, permanent-magnet DC:

(Qty: 2) 1.0 hp / 265 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:

650 watts

## SQUEEGEE

Squeegee shall be curved, with four usable edges on the rear blade. It shall move when the machine turns to 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:

60"

## DRIVE SYSTEM

Machine shall have an "all-gear" drive, that powers "front wheel", which also steers 93 degrees to both sides for superior maneuverability. 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:

1150 Watts

**TIRES**

For preferred machine stability and low impact on sensitive floors, only machines with wide tires will be acceptable. Machine will have a:

Front drive tire shall be solid, cushion, non-marking and size minimum of:

Rear wheels shall be solid, low rolling resistant and size minimum of:

3-Point Stance  
(Qty 1): 12" dia x 4" wide  
(Qty 2): 14" dia x 5" wide

**BATTERIES**

Scrubber shall include at least 6 batteries, to form a minimum of 36-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:

For extended run time, optional battery upgrade and appropriate charger quoted in the size of:

Battery brand must be:

(Qty 6): 325 ah  
(Qty 6): 420ah  
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 36-volt DC output of:

36 amps

**CONTROLS**

A wide foot pedal, with single direction operation, arranged to allow operator to engage forward speed. For operator ease a separate switch for reverse will be used. No "Wig Wag" foot pedals will 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**

Machine maximum dimensions shall be:

Machines maximum weight (including batteries) shall be:

(78"L x 36"W x 52"H)  
1787 pounds

**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:

To protect the facilities interior walls, both front corners of the machnes frame must include:

7-gage (3/16")  
Stainless Steel  
(2) 3" Tall Poly Rollers

**OTHER FEATURES**

- Non-Marking Tires
- Manager's Lock-out of Down Pressure
- Manager's Lock-out of Solution Flow
- Remote Spray Hose
- Vacuum Wand
- Sealed Batteries
- Overhead Guard
- Onboard Soap (SUDS)
- Industrial Battery 440ah (6-hour rating)
- Onboard Charger
- Stainless Steel Baffle
- LED Headlights (In place of standard)
- Parking Brake

- Optional
- Standard
- Standard
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional
- Optional
- Standard

HD Steel Rear Bumper  
Scrub Deck Shrouds  
Scrub Deck HD Side Doors

Standard  
Standard  
Optional