MiniMag Pad Assist

MiniMag 20"-D

GENERAL

Machine shall be of the type generally described as a battery-powered "automatic":	Factory Cat
The specific model and size should be:	MiniMag 20"-D
This bid defines a self-propelled machine that wet "scrubs and dry" vacuums a path of:	20"
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:	17 gallons

SOLUTION TANK

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:	17 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 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 screen, and be removed without tools or loose fasteners. Tank Capacity of:	17 gallons

BRUSHES/PADS

For preferred maneuverability and productivity the machine shall use:	1 disk brush
Scrub brushes shall be:	Qty: 1 @ 20"
For preferred cleaning performance the machine's scrub brushes should operate at:	200 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:	Infinitely Adjustable

BRUSH MOTOR

The scrub motor shall be heavy duty, permanent-magnet DC:	(Qty: 1) 1.0 hp / 200 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:	32"

DRIVE SYSTEM

Machine shall have an adjustable pad assist system, which maintains a level scrub deck at all times. The adjustable pad bias shall be done via a wheel that applies pressure to the outside of the brush block. Pad or Brush drive must be fully:	Adjustable

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.	4-Point Stance
Front tires shall be solid, cushion, non-marking and size minimum of:	Qty 2: 9" dia x 2" wide
Rear caster wheels shall be solid, low rolling resistant, non-marking and size minimum of:	Qty 2: 4" dia x 2" wide

BATTERIES

Scrubber shall include at least 2 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:	115 ah
For extended run time, optional battery upgrade and charger should be quoted in the size of:	Trojan 225 ah / 25 amp

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 finger. Twist grip controls which govern direction change along speed, will not be considered.

The instrument panel shall include a Brush Pressure Gauge, a Battery gauge and Hour meter.

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 hose will have a trap.

DIMENSIONS

Machine maximum dimensions shall be:	(58"L x 26"W x 43"H)
Machines maximum weight (including batteries) shall be:	547 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:	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
E-Stop	Optional
Remote Spray Hose	Optional
Vacuum Wand	Optional
Sealed Batteries	Optional
Onboard Charger	Optional
Stainless Steel Baffle	Optional
Parking Brake	Optional
Scrub Deck Shrouds	Standard
Scrub Deck HD Jaws	Optional