

MICRO-HD Brush Assist Scrubber

MICRO-HD 20" / 155-20FB

GENERAL

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

The specific model and size should be:

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

For expedited parts delivery, machine shall be made in:

The machine contains separate tanks for solution and recovery water, with a minimum capacity in each tank of:

FactoryCat
MICRO-HD 20-D
20"
United States
13 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:

13 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:

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:
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:

"Tip Back" feature
15 gallons
Fully Transparent

BRUSHES/PADS

For preferred maneuverability and productivity the machine shall use:

Scrub brushes shall be:

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

1 Disk Brush
(1x) 20"
350 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:

125 lbs

BRUSH MOTOR

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

(1x) .75 hp / 350 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 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 with 3-point stance will not be considered.
Front drive tires shall be solid, cushion, and size minimum of:
Rear caster wheels shall be solid, low rolling resistant, non-marking and size minimum of:

4-Point Stance
(2x) 8" dia x 2" wide
(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
150 ah
Trojan

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

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 switch control system, arranged to allow operator to engage forward speed with the finger. Twist grip controls which govern direction change along with 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. Electrical Vacuum Switch components shall be mounted internally inside the steel Central Command box.

DIMENSIONS

Machine maximum dimensions shall be:
Machines maximum weight (including batteries) shall be:

(45"L x 21"W x 39"H)
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:
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.

10-gage (1/8")

Stainless Steel

OTHER FEATURES / OPTIONS

Non-Marking Tires
Solid HD Tires (P7 Rubber / Black)
E-Stop
Remote Spray Hose
Onboard Soap (SUDS)
Vacuum Wand
Sealed Batteries
Onboard Charger
Stainless Steel Baffle
Stainless Steel Scrub Deck
Aluminum Scrub Deck
Parking Brake
Disk Scrub Deck Shrouds

Optional
Standard
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