

# MicroMag - Traction Drive

MicroMag 17"

## GENERAL

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

Tomcat

The specific model and size should be:

MicroMag 17"-D

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

17"

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, with the check valve, on the scrub deck permitting top 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 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:

10 gallons

## BRUSHES/PADS

For preferred maneuverability and productivity the machine shall use:

1 disk brush

Scrub brushes/pads shall be:

Qty: 1 @ 17"

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

250 lbs

## BRUSH MOTOR

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

(Qty: 1) .75 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:

3-Stage / 650 watts

## SQUEEGEE

Squeegee 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:

26"

## DRIVE SYSTEM

Shall be equipped with a drive motor of:

0.35 hp

For preferred stability and traction, unit shall be propelled by:

All-Gear Sealed Transaxle

**TIRES / CASTERS**

For preferred machine maneuverability, only machines with a 3-point stance will be acceptable. Machines with 4-point stance will not be considered.

Front casters shall be solid, non-marking and size minimum of:

Rear caster wheels shall be solid, low rolling resistant, non-marking and size minimum of:

4-Point Stance  
Qty 2: 2.5" dia x 1.5" wide  
Qty 2: 8" 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 12" 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 should be quoted in the size of:

85 ah  
130 ah / 12 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:

8 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. Twist grip controls which govern direction change along speed, will not be considered. The squeegee shall be lifted and lowered by a simple lever, with the vacuum operating whenever the switch is engaged. To more completely dry the squeegee hose, and reduce discharge back onto the floor, the hose shall have a:

Trap

**DIMENSIONS**

Machine maximum dimensions shall be:

Machines maximum weight (including batteries) shall be:

(39"L x 19"W x 39"H)  
356 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:

10-gage (1/8")

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

E-Stop

Remote Spray Hose

Vacuum Wand

Sealed Batteries

Onboard Charger

Stainless Steel Baffle

Parking Brake

HD 1.0 hp Motor

Standard  
Optional  
Optional  
Optional  
Optional  
Optional  
Optional  
Optional  
Optional