

270-UHS Traction Drive Burnisher

270-UHS

GENERAL

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

The specific model and size should be:

This bid defines a machine that is:

Machine is must burnish in a single pass a width not less than or greater than:

For expedited parts delivery, machine shall be made in:

Tomcat

270-UHS

Self Propelled

27"

United States

POWER SOURCE

Machine shall be battery powered for safety, no emissions and low noise levels. Battery shall be a:

Batteries shall be contained in a 14" plastic tray, with a valve controlled tube, to contain any electrolyte spill. The battery system shall be comprised of:

With an individual voltage and amp hour rating of:

Optional battery pack must be available for maximum of:

Battery brand must be:

36-volt system

Qty (3) batteries

12-volt / 175 ah batteries

Qty (3) @ 12-volt / 225ah

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:

25 amps

DRIVE MOTOR

Shall be equipped with a drive motor of:

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

0.35 hp

All-Gear Sealed Transaxle

SPEED

"Transport Speed" shall be fully variable from 0 - 4.5 mph maximum with programmable speed control. Machine shall automatically cut back the drive speed to a slower (0 - 3 mph) speed when the machine is operated in "Reverse".

PAD DRIVE MOTOR

Shall have a single motor that is heavy duty, permanent-magnet DC, rated at:

For increased motor life, the air intake to the motor must be controlled through dual front inlets at the front of the machine, and directed to the motor via a specially form fitting cap.

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

3.5 hp / 1,900 rpm

500 lbs.

PAD HOLDER

Shall be a quantity of one, and a diameter of:

27"

PAD SPEED

For optimum shine, it shall be a minimum of:

1,900 rpm

PAD DRIVE

For simplicity and maximum energy efficiency, the pad shall be:

No belts or gear drive systems will be accepted.

Directly Driven

PAD PRESSURE

Shall have infinite settings, but not computer controlled. For simplicity, the pressure shall be controlled by a rear mounted adjustment knob. Pressure shall be modulated through springs, not height adjustment of the chassis or casters. In addition, the pad shall automatically and freely float from front to rear to better manage irregular floors.

Pad Pressure shall be adjustable through a range of:

0 - 50 pounds

CONTROLS

Shall have a single button for pad operation, a forward / reverse switch, Pad Pressure gauge, Battery Gauge/Hour meter combination as standard equipment

TIRES / CASTERS

All tires must be solid, non-marking, without tread. For better maneuverability away from the wall, machine must be "Front Steer". Rear steer machines will not be considered. For maximum stability machine must use a:

Front Casters shall be:

Rear Wheels shall be:

4 Point Stance
Qty (2) 4" dia x 2" wide
Qty (2) 10" dia x 2" wide

SOUND LEVEL

Shall have a maximum at the operator's position of:

68 dB(A)

CONSTRUCTION

For preferred durability and longevity the machine'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, hold the burnishing deck rigid and locate the casters and transaxle. For future ease of service, all of the fasteners on the machine shall be made of:

The avoid damage to walls and machine, the front shall be protected by (Qty 4)::

10-gage (1/8")
Stainless Steel
4" Dia Soft Grey Rollers

BRAKING SYSTEM

For preferred energy efficiency, unit shall have braking that is described as:

Dynamic

DUST CONTROL

Shall have standard "Passive" dust control, and for sanitary reasons, minimum of 2 dust collection bags that are:

Disposable

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 speed, will not be considered.

For operator safety during regular pad removal, machine must be equipped with:

This switch shall disable both the traction drive and pad motor circuits.

Tip Switch

DIMENSIONS

For easy storage in congested closets and maximum maneuverability, machine shall have maximum dimensions of:

(53"L x 29"W x 40"H)

OTHER FEATURES

Non-Marking Tires

E-Stop

Sealed Batteries

Onboard Charger

Parking Brake

Standard
Optional
Optional
Optional
Optional