

**SUGGESTIONS FOR WRITING BID SPECIFICATIONS ON THE  
ADVANCE Terra 28B Sweeper Vacuum**

**GENERAL**

Machine shall be of the type generally described as a battery-powered walk-behind sweeper vacuum with traction, an Advance Terra 28B or equal.

It shall have a main sweeping broom to sweep dust and debris into the hopper and a side (right) sweeping broom to sweep dust and debris that lies against walls, base boards and equipment into the path of the main broom.

Unit must be quiet enough to use during business hours without interrupting business. Sweeping path shall be 28 inches (71 cm). Unit must perform equally well on carpet and hard surfaces without the need to change the broom type.

Machine must be easy to use, provide excellent cleaning results for increased productivity and have machine clean up and maintenance simplicity built in for the lowest total cost of ownership.

**CLEANING CAPACITY  
& HOPPER DESIGN**

The design shall be a "direct" or "forward" throw utilizing a rotationally molded hopper. The hopper must be durable, rustproof, dent and chip resistant and have 2.1 ft<sup>3</sup> (60 L) capacity to maximize time spent cleaning.

The hopper shall have an integral handle for convenient transportation to the dumping location.

**MAIN BROOM**

Shall be 20 inches (51 cm) long with a diameter of 7.9 inches (20 cm). Main broom RPM shall be 335.

Main broom must be easily removed without the use of tools, for cleaning debris that has become wound around it or lodged, and for when the need for replacement occurs.

Main broom must be height adjustable without the use of tools to compensate for bristle wear and to allow for maximum sweeping performance on different types of surfaces.

The main broom must be engineered with A.S.A.P. (All Surface All Purpose) sweeping technology. That is to say the main broom must be designed with multiple bristle types and engineered spacing such that only one broom type is necessary on all types of debris and on hard surfaces and carpet alike without the need to buy and change brooms for different applications.

**SIDE BROOM**

Shall be 12.4 inches (31.5 cm) diameter brush with a low profile and fully protected against impacts.

Side broom RPM shall be 100.

Shall have easy removal and replacement without the use of tools.

Height adjustment to compensate for wear must be done without tools and be very simple.

**SAFETY**

A safety switch must deactivate the machine when the hopper is removed for safety.

**ONBOARD CHARGER**

The machine shall come standard with an onboard charger to allow the unit to be charged anywhere there is an outlet. Charger shall be 12 volt, 6 Amp.

<b>MOTORS</b>	<p>Shall be 12 volt, 200 watts (0.3 HP) for powering the main broom and traction.</p> <p>Shall be 12 volt, 40 watts (.05 HP) for powering the side broom.</p> <p>Shall be 12 volt, 50 watts (.07 HP) for powering the dedicated vacuum fan.</p> <p>Unit shall be very cleanly engineered and designed for long life and simplicity of maintenance.</p>
<b>DUST CONTROL VACUUM</b>	<p>Pressure differential for dust control shall be developed using a dedicated motor to power a radial style fan with sufficient draw to continually maintain a negative pressure in the main broom chamber, i.e., it does not dust.</p>
<b>DUST FILTER</b>	<p>Shall have polyester panel filter measuring 10.8 ft<sup>2</sup> (1 m<sup>2</sup>) area. Shall require no tools to remove and replace and be positioned in the sweeper for easy inspection. The filter position should also be such that its removal is not even necessary for deep cleaning (vacuum).</p> <p>A manual filter shaker must be provided for routine filter cleaning. The filter shaker must physically comb the pleats of the filter to maximize the cleaning aggressiveness and minimize the time between deep cleaning (vacuum) or replacement.</p> <p>Filter must not allow particles greater than 5 micron to pass through.</p>
<b>ACTIVATION SWITCHES AND INTERFACE</b>	<p>Shall have a simple, logical, and clear interface with just one 2 position switch.</p> <p>One position shall activate both the main and the side brooms, while the other position will activate just the main broom. Both positions activate the traction motor.</p>
<b>SOUND LEVEL</b>	<p>Must operate at or under 59 dB A.</p>
<b>BATTERIES</b>	<p>Machine must come standard with on 12 volt / 87 Ah maintenance free gel battery.</p>
<b>OPERATOR HANDLE</b>	<p>Handle shall be fully height adjustable to accommodate different height operators. Handle shall utilize a simple handle grip self-propulsion throttle that can vary the travel speed up to 2.5 mph (4 km/hr).</p> <p>Traction system must be capable of propelling sweeper up a grade of at least 20%.</p>
<b>DIMENSIONS</b>	<p>Shall have dimensions no larger than the following:  Length: 39 in (99 cm)  Width: 31.5 in (80 cm)  Height: 24.4 in (62 cm)</p> <p>Shall be able to pass through a standard 36 inch doorway with clearance on both sides.</p>
<b>WEIGHT</b>	<p>Machine must not weigh more than 171 pounds (77.5 kg) with the battery.</p>
<b>APPROVALS</b>	<p>Machine must be ETL, CSA, CE approved.</p>