

**SUGGESTIONS FOR WRITING BID SPECS ON THE  
Clarke MA50™ 15B  
BATTERY POWERED AUTOMATIC SCRUBBER**

<b>GENERAL</b>	Machine shall be of the type generally described as an “automatic”. It shall wet scrub and vacuum in one pass. Machine shall operate at 12 V with two standard 33 amp hour AGM batteries. Shall be equipped with an onboard automatic battery charger.
<b>PAD/BRUSH MOTOR</b>	Shall be one, heavy-duty, permanent magnet DC motor rated at $\frac{1}{3}$ hp (250 W).
<b>VACUUM MOTOR</b>	Shall be one – 0.33 hp. Vacuum shall have a minimum of 27 inches (690 mm H <sub>2</sub> O) of sealed waterlift.
<b>PROPELLING</b>	Propulsion must be pad/brush assist.
<b>CONSTRUCTION</b>	Chassis and tanks shall be roto-molded polyethylene.
<b>SOLUTION TANK</b>	Shall be a minimum of 3.5 gallon (13.5 L) capacity. Must be constructed of linear high-density roto-molded polyethylene.
<b>RECOVERY TANK</b>	Shall have 3.5 gallon capacity. Tank must be constructed of linear high-density roto-molded polyethylene. Tank must be completely removable without tools for service.
<b>BRUSH/PAD</b>	Shall have one 15 inch brush to cover a 15 inch scrubbing swath. An optional pad driver shall be available. Brushes and pad holders shall be removable without tools.
<b>BRUSH/PAD PRESSURE</b>	Shall be 44.5 pounds of consistent pressure throughout the entire cleaning cycle.
<b>SCRUB DECK</b>	Scrub deck has an integrated parabolic squeegee.
<b>BRUSH/PAD SPEED</b>	Shall have a nominal speed of 150 rpm.
<b>CONTROLS</b>	<p>Shall be simple and intuitive. All controls shall be accessible while the machine is in the operating position.</p> <p>There shall be four buttons that allow a user to choose from four settings:</p> <ul style="list-style-type: none"><li>• Power On/Off</li><li>• Vacuum</li><li>• Scrub</li><li>• Solution Pump</li></ul> <p>All controls shall be illustrated symbolically (without the use of a specific language).</p> <p>There shall be a hand actuator on the handle to activate the scrub brush and solution flow.</p>

<b>WHEELS</b>	Rear: Shall have two 10 inch (25.4 cm) non-marking rubber wheels.
<b>SQUEEGEE</b>	Shall consist of one 20 inch fully integrated squeegee that is attached to the scrub deck. Squeegee must also be curved in such that allows for complete pick-up. Shall be removable without the use of tools and shall have geometry such that they can only be installed one way to assure simple and proper maintenance.
<b>DIMENSIONS</b>	Machine must have an adjustable handle that will allow the machine to not exceed 30 inches length; 20 inches width; 21.7 inches height (to the top of the folded handle). Handle adjustable.
<b>WEIGHT</b>	Shall be no more than 124 lb.
<b>HANDLE</b>	Shall be fully adjustable with locking position for height, ergonomically designed for comfortable operation.
<b>APPROVALS</b>	Shall meet or exceed CSA approval.
<b>SOUND LEVEL</b>	Shall be no more than 70 dB A at the operator's position.

**The Machine Shall Be A *Clarke MA50™ 15B*.**