

**SUGGESTIONS FOR WRITING BID SPECIFICATIONS ON THE  
*Clarke Ultra Speed® 20 and 20T*  
BATTERY BURNISHERS**

<b>GENERAL</b>	The machine shall be a single-disc rotary type, with general construction; motor power and weight to adequately handle ultra high-speed burnishing. Brush speed shall be 2,500 rpm with no load and 2,000 to 2,100 rpm working speed. The machine shall be certified to UL standard 583 and to CSA standard C2 2n-65-92.
<b>MOTOR</b>	Shall be permanent magnet 2 ½ hp, 36 V, DC.
<b>PAD HOLDER</b>	Shall be 20 in (51 cm), fixed to the machine, with a flexible face to follow the contours of the floor.
<b>DRIVE MOTOR</b>	The traction drive model shall have a transaxle drive that is driven by a 1/2 hp, 36 V DC, permanent magnet motor.
<b>SWITCHES</b>	Shall have one master key on/off switch, one rocker type switch to activate the pad motor, three momentary type push button switches for traction and pad start, and one gravity ball switch that is activated when the machine is tipped back, turning off all power for safety. All switches shall be moisture proof.
<b>SWITCH HANDLE</b>	<p>Shall be an ergonomic single-piece construction, having molded in placement for two palm activated momentary switches. The pad motor shall start when either or both palm buttons are depressed, and will stop when they are released.</p> <p>The traction drive model shall traverse forward with either or both palm switches depressed, and the pad motor will start. A single momentary switch located on the control handle's center post shall allow the machine to traverse in reverse when it and either or both of the palm buttons are depressed. This additional button shall be a secondary safety that requires the operator to activate two items for the machine to traverse in reverse.</p>
<b>BATTERY CHARGER</b>	Shall have an onboard battery charger with an AC power cable stored on-board the machine allowing charging to be accomplished at any 120 V, 15 amp AC outlet.
<b>BATTERY CHARGE INDICATOR</b>	Shall have a light to indicate that the batteries are charging. The light will flash green when the onboard charger is charging the batteries, and will flash faster as the batteries become charged, until it is on solid when the batteries are fully charged.
<b>BATTERY LEVEL INDICATOR</b>	Shall have an LED bar type indicator which indicates the remaining battery charge available to the operator as the machine is running. The indicator shall be located on the operator control console.
<b>LOW BATTERY LEVEL SHUT DOWN</b>	Shall be a standard feature that electronically monitors the battery level and shuts off the pad motor when the level reaches a low point, to prevent damaging the batteries from over discharge. On traction drive models, the power drive shall remain enabled to permit the operator to transport the machine to a charging area.
<b>PAD PRESSURE</b>	Shall be self regulating with no operator adjustment.
<b>HOUR METER</b>	Shall be standard on all models, and located on the operator control console.
<b>BATTERIES</b>	Either three 12 V/200 Ah wet type, or three 12 V/234 Ah AGM maintenance free Gel type.

**DUST/DEBRIS  
COLLECTION  
SYSTEM**

Passive Dust Collection

Shall have a shroud constructed of molded A.B.S. plastic material designed to cover the pad holder and pad. Shall have dual air ports attaching paper filtration collector bags. Shall have a felt floor seal totally surrounding the shroud.

**FRAME AND  
HOUSING**

Shall be a 10 gauge structural steel frame supporting a rotational molded polyethylene embodiment. Shall have a molded polyethylene battery cover that removes for battery access and electrical servicing.

**WEIGHT**

UltraSpeed 20 with 200 Ah batteries – 566 lb (257 kg)

Shipping Weight – 612 lb (277 kg)

UltraSpeed 20 with 234 Ah AGM batteries – 610 lb (277 kg)

Shipping Weight – 656 lb (298 kg)

UltraSpeed 20T with 200 Ah batteries – 580 lb (266 kg)

Shipping Weight – 626 lb (284 kg)

UltraSpeed 20T with 234 Ah AGM batteries – 624 lb (283 kg)

Shipping Weight – 670 lb (304 kg)

**DIMENSIONS**

Shall not exceed 53.5 in (136 cm) in length, 23 in (58 cm) in width and 42 in (107 cm) in height.

**THE MACHINE SHALL BE A *Clarke Ultra Speed*<sup>®</sup> 20 or 20T**