



Trusted Name in Beachcleaners and Mobile Screeners.

April 2, 2013

John Chidsey  
Gary Gibson  
City of Hallandale  
630 NW 2nd Street  
Hallandale, FL 33009

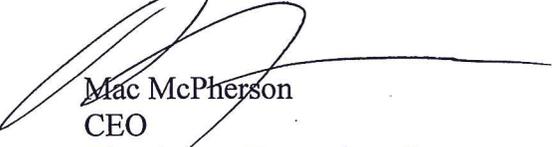
Dear John and Gary,

This letter is to certify that Cherrington Enterprises Inc., dba Cherrington Beach Cleaners, Jamestown, North Dakota, is the sole United States manufacturer, supplier, and source of self-propelled beach cleaner / screener using a unique 3-wheel hydrostatic drive, with zero turn ability incorporating the Lift and Sift method of screening which uses a non-rotating, elliptical oscillation screening system.

Our Model 5450 is the newest update to our former Model 5000. Like its predecessor, the Model 5000, the Model 5450 is the only one of its kind available on the market.

We would be happy to furnish any additional information that you might need.

Sincerely,



Mac McPherson  
CEO  
Cherrington Enterprises, Inc.  
701-952-0226  
[www.cherrington.net](http://www.cherrington.net)

**Cherrington Enterprises, Inc.**

1805 2<sup>nd</sup> Avenue SW PO Box 2135 Jamestown, ND 58402-2135 USA  
Toll-Free: (800) 966-1588 // Phone: (701) 952-0226 // Fax: (701) 952-0227



**Cherrington Screeners and Beachcleaners**  
 1805 2nd Ave SW ~ PO Box 2135 ~ Jamestown, North Dakota 58401 USA  
 Tel: 701-952-0226 ~ Fax: 701-952-0227 ~ E-mail: sales@cherrington.net

**QUOTATION**

Quote#: Q05165  
 Validity: 30 days from quotation date

Quotation Date: 3/29/2013  
 Purchase Order Date: \_\_\_\_\_  
 Purchase Order No: \_\_\_\_\_

**Bill To:**  
 Name: \_\_\_\_\_  
 Company: City of Hallendale  
 Address: 630 NW 2nd St  
Hallendale, FL 33009  
 Country: U.S.A.  
 Shipping Terms: Within 14 days of purchase order

**Ship To:**  
 Name: SAME  
 Company: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Country: U.S.A.  
 Payment Terms: Net 30 Days, 1% discount for Net 10 Days

PART ID	QTY	DESCRIPTION	PRICE EACH	EXTENSION
1		<b>Cherrington Model 5450 with Exclusive Lift &amp; Sift Sand Screening Design</b>	\$97,000.00	\$97,000.00
		45 kW (60 hp) John Deere Turbo Diesel Engine, Hydrostatic - All wheel Drive with 3 wheel, Zero Turn at Cleaning method - variable speed, oscillating sifting screen, with self loading paddles. Screening/Cleaning width 54", Screening Depth adjustable from 0 to 6". Cleaning speed - 0 to 7.5 mph / hour, with infinite hydrostatic control. 1 cubic yard capacity hopper, with variable dumping heights (ground to 102"). Polyurethane Groomer, 110" wide to remove tire tracks and leave a nice, groomed finish. Corrosion & abrasion resistant coatings. Grit blasted and powder coated with zinc rich epoxy primer and polyester top coat. Hot dip galvanized screen frames and loading paddles. Certified ROPS & FOPS rollover protection sun roof/canopy. Night Working Lights & Safety visual flashers with audible warning signal. Ground Clearance of 6" to 8" for Road Travel. Automatic parking brake. CE Certified for safety compliance and Clean Air compliant for Calif., USA & EU Changeable high speed sifting screens available in any screen hole size (See options below*)		
1		<b>Installed: 3/4" Square hole screen set, oil tempered hardened woven wire</b>		
1		<b>Included: 1/2" Square hole screen set, oil tempered hardened woven wire</b>		
1		<b>Included: 1 Day Operator and Maintenance training</b>		No Charge
<b>Total FOB Factory, Minnesota, USA (sales tax not included)</b>				<b>\$97,000.00</b>
<b>Free Freight (Spring Introductory Special)</b>				\$0.00
<b>Total FOB Destination, Freight Prepaid &amp; Add</b>				<b>\$97,000.00</b>

\*\*\*Prices are Subject to applicable state and local taxes if exemption certificate is not provided

**Screening Options** \* 3/4" screen is generally recommended for most applications.  
 Customer's chosen screen is installed in machine prior to shipment at no charge. Prices indicated below are for additional screens. Options include installation hardware.

		Price Each
500411K	3/4" Square hole, oil tempered hardened woven wire (high speed screening)	\$715.00
500475K	1/2" Square hole, oil tempered hardened woven wire (fine screening)	\$715.00

Cherrington Enterprises reserves the right to change part numbers, suppliers and specifications at any time without notice and without incurring obligation. You may rely on the pricing in this quotation through the validity date, thereafter prices are subject to change without notice. Please request a revised quote if beyond validity date. Cherrington is not responsible for shipping delays beyond our control.



## SPECIFICATIONS

### Cherrington Model 5450 Beach Screener

The Cherrington Model 5450 Beach Screener is a three wheel hydrostatic drive, zero turn self-propelled sand screener with a slanted oscillating sifting screen. It will lift the sand and consistently separate out beach debris, while returning the cleaned, screened, and sanitized sand back onto the beach.

#### CHERRINGTON SCREEN-CLEANING SYSTEM:

1. The leading edge (also known as the digger point) engages the ground and lifts a layer of sand and debris up and into contact with the conveyor system and screen.
2. The conveyor system carries the sand and debris over the screen using a series of loading flight paddles.
3. The screen oscillates to assist with debris-from-sand separation as the loading flight paddles move the debris toward the hopper.
4. As the sand sifts through the screen and immediately back to the beach surface, the loading flight paddles carry the debris into the hopper.
5. The groomer bar at the back of the machine covers wheel tracks and leaves a neatly groomed finish.
6. The hopper can be unloaded onto the ground or into trucks or dumpsters.

This system consistently removes paper, plastic, broken glass, cigarette filters, coral, rock, seaweed and other debris from the beach surface, and perhaps even more importantly, removes dangerous debris from below the surface – up to 6" (152mm) deep.

#### TECHNICAL INFORMATION FOR THE MODEL 5450

**Engine:** The machine is furnished with a liquid cooled diesel engine of not more than 4 cylinders producing approximately **60 horsepower**. The fuel system includes a water separator mounted at the engine to prevent condensed water in fuel lines from entering the injection systems.

**Operator Controls:** The operator is provided with a shock absorbing high quality ergonomic suspension seat located for clear visibility of the entire work area, the screen's leading edge (digger point), oscillating screens, and forward motion of the machine. All functions are easily controlled by the operator from a seated position. There is a safety, operator presence, switch built into the operator's seat to disable the engine unless the operator is seated.

**Drive System:** The closed loop hydrostatic drive transmission transmits variable speed forward and reverse power to all wheels. A separate fixed displacement pump provides power to the hopper hoist and dump, depth control cylinder, screen oscillator motor, and conveyor motor for the loading flights. The speeds of the two motors can be varied. They can also be stopped and the conveyor reversed as needed.

**Leading Edge:** The leading edge, also known as the digger point, may be hydraulically lowered into the sand to pre-determined depth settings. It is a separate piece fabricated of high carbon steel. The leading edge and screens may be activated to move in an elliptical oscillating pattern in order to facilitate sand and debris separation. There is an open front design in order to easily retrieve seaweed and larger objects (there is no moldboard, which prevents adequate clearance to retrieve seaweed and large objects.).

**Screen:** The one-piece, flat (non-rotating) screen is made of oil tempered hardened woven wire and is easily interchangeable for other sizes. The standard screen which will be installed in the screener upon delivery has a 3/4" (19 mm) hole size.

An additional interchangeable 1/2" (13mm) hole screen will be included with the machine. Other optional sizes are 3/8" (9 mm) and 1" (25 mm).

A high speed elliptical motor is used to produce a short, but intense movement to the screen. The screen frame and elliptical motor are mounted on rubber isolators and attached to the screen. The isolators allow the exact amount of movement needed to the screen, but no vibration to the rest of the machine.

**Loading Flight Paddles:** There are 26 steel, reinforced loading flight paddles which are bolted to two heavy-duty steel conveyor chains. The flight paddles are hot dip galvanized.

**Conveyor Chain:** Pre-stressed drive chain with solid chrome pins for longer life, less maintenance and quiet operation.

**Hopper:** The rollover dump hopper has a capacity of one cubic yard. It is hydraulically activated by the operator to dump anywhere from ground height to eight feet six inches high and has an adequate reach to empty into dumpsters and trucks. The hopper has a spray on polyurethane liner to eliminate rusting.

**Groomer:** A 110" (2,794 mm) groomer bar grooms and covers the wheel tracks while leaving an aerated and groomed finish. It may be operated automatically and in tandem with raising and lowering of the sifting screen or independently, to allow grooming without cleaning.

**Wheels and Tires:** The machine has one front and two rear wheels. Power steering is on the front wheel for best maneuverability (with zero turn ability.) All tires are of a minimum size 38" x 14" high flotation. Reverse mounted flat profile barred tires provide flotation, stability, and traction in sand. Each tire can be fluid filled for added traction and/or lowered center of gravity. Tire air pressure can be reduced for greater traction and flotation.

**Finishing:** All metal surfaces are grit-blasted, powder coated with corrosion and abrasion resistant zinc rich epoxy primer, then top coated with super durable, chemical and abrasion resistant polyester top coat powder that is baked to a final thickness of 4-5 mils. Top coat is TGIC free. Conveyor loading flights and groomer components are hot dip galvanized.

## **DIMENSIONS**

**Length:** 182" (4,623 mm)

**Width:** 99" (2,515 mm)

**Height:** 94" (2,388 mm)

**Weight:** 7,080 pounds (3,211 kg)

**Cleaning width:** 54" (1,372 mm)

**Grooming width:** 110" (2,794 mm)

**Hopper capacity:** One cubic yard (.8 cu meters)

**Dump height:** 102" (2,591 mm)

**Ground clearance:** 6"-8" (152 – 203 mm)

**Cleaning depth:** 0-6" in varying applications (up to 152 mm)

Operating Speed: Up to 7.5 mph (*up to 12 km/hr*)

**Safety Features:** The machine has the following safety features included on the machine in accordance with current standards. The machine is in conformance with European CE requirements.

1. Safety guards and shielding
2. Neutral start switch
3. Audible moving vehicle warning signal and safety beacon
4. Automatic (“fail-safe”) parking brake – automatically engages when operator leaves the seat or the engine is shut off.
5. Emergency stop switch built into the seat
6. Certified R.O.P.S. & F.O.P.S. Canopy

**Other Features:**

1. Engine hour meter / tachometer
2. Fuel gauge
3. Engine temperature gauge
4. Engine oil pressure gauge
5. Voltmeter gauge
6. Hydraulic oil level and temperature gauge
7. Locking cap on fuel tank
8. Four working lights (front and rear)
9. Towing lockout which enables the machine to be towed short distances in the event of engine failure
10. Master switch allows a switched battery disconnected for service or storage

**Manufacturer’s Identification:** A durable identification plate stating the manufacturer’s name, location, model, and other suitable information to identify the Beach Screener for parts or repair is permanently attached to the frame.

**Materials:** All materials, parts and assemblies are new and are of current manufacture. Workmanship, fabrication and assembly are in conformance with standard manufacturing and engineering practices. Bolts are of sufficient length to assure a full thread nut. All bolts are fitted with self-locking nuts or with lock washers. All welds and welding practices conform to the latest American Welding Society Standards.

**Warranty:** 12 month warranty against manufacturing defects on machine, including engine, pumps, motors, and other components.