

# RENEWABLE ENERGY CONSULTANTS, LLC

P.O Box 41

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<http://renewableenergyconsult.us>

## WALKING FLOOR FUEL STORAGE & TRANSFER SYSTEM

EQUIPMENT SPECIFICATIONS (The following is an outline of all the system components that are required for a proper operation of the system and are part of a package sold). This system is as shown in the attached illustration brochure.

### 1: Hydraulic System

The Hydraulic System is designed to operate the walking floor. It consists of the following components:

- 40 US Gallons Oil Tank;
- Hydraulic Pump c/w 5 HP, 480V, 3PH TEFC motor;
- High Pressure hoses (not exceed 60 ft.);
- 8" diam x 20" stroke Hydraulic Cylinders, Qty. 2; with valves and fittings;

### 2: Electrical Controls

Electrical control panel c/w PLC is designed to operate the Hydraulic System as specified above in conjunction with fuel delivery system. When the fuel feed system receives the signal from the biomass boiler it starts the walking floor, horizontal and incline feed augers.

**Electrical power connections, control wiring, etc. is customer's responsibility.**

### 3: Mechanical System

The mechanical system consists of the following components:

- Two (2) scrapers, approx. dimension 5ft wide x 30'-0" ft. long
- Scraper assembly braces, Qty. 2 for cylinder mount
- Floor channels for scrapers
- "C" scraper mounting bracket
- Product over-flow gate(optional)
- Fuel delivery horizontal auger: 12" auger x 20ft long including gear box
- Fuel delivery incline auger: 12" auger x 25ft long including gear box
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**The mechanical system installation is customer's responsibility.**

### 6: Delivery

The scheduled delivery of the above stated equipment would take place no later than Twelve (12) weeks from the date of the down payment. (Boiler shipment will be delayed 2 weeks if Fuel Storage is shipped with Boiler. Rebar & complete drawings & instructions are issued)

### 7: Installation

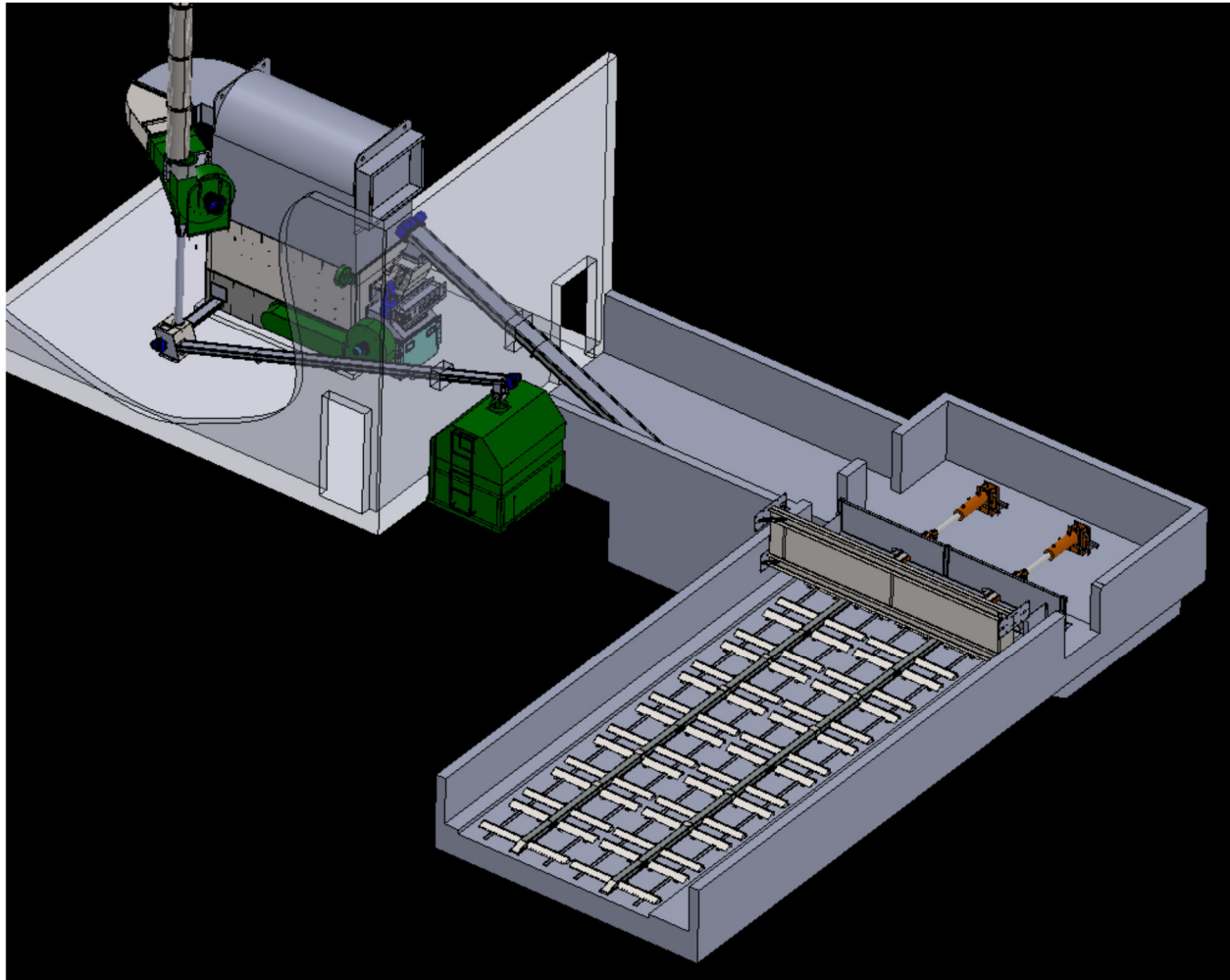
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**SIM – MILTI-FUEL, MOVING GRATE, BIOMASS BOILER with AUTOMATIC ASH REMOVAL & WALKING FLOOR FUEL STORAGE & TRANSFER SYSTEM**



Of all the solid fuel/biomass storage technologies available we have found the reciprocating floor system to be the most adaptable, simple and low maintenance. The reciprocating or more commonly referred to as a “walking floor” is a fuel storage/handling system that allows bulk biomass fuel to transition from a storage area into the fuel feed circuit as called for by the power system it is supplying.

Bob Rice  
REC, LLC

Unless otherwise arranged when ordering, this equipment shall be installed and connected by the customer, who will supply all the necessary material (not listed in this quote) and labor. If desired, we will provide, at customer's request, the required services at the prevailing hourly rate.

**8: Warranties**

Supplied product will carry the warranty as specified by the manufacturer. Our company will not be responsible for any expense incurred through faulty merchandise, during installation, removal from service such as labor, transportation, or interest costs, due to defective material supplied by the manufacturer. We will however, approach the manufacturer involved for compensation as it applies to their warranty.

All building modifications, including: concrete work, structural, mechanical and electrical is the responsibility of the customer.

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