

# City of Sunnyvale SSI Model 2500 SPH Compactor Proposal

SSI Pre-Load Compactor with High Compaction Cylinder

## WHAT NEEDS COMPACTING?

**Application:** This compactor is designed for the continuous processing of solid waste and loading into trailers or intermodal containers to customer defined weights and densities.

## SYSTEM DESCRIPTION:

**Compactor:** SSI Model 2500 SPH, including:

Compactor Features:

- Production Rate of 75 tons per hour average\*
- 261 Ton compaction force
- Specially designed single stage, 16" (406mm) diameter hydraulic cylinder
- User-definable program to automate bale creation
- Self-calibrating electronic scale system with load cells ( $\pm 1\%$  accuracy)

Compactor Hardware:

- Double bale system, 7' (2.1m) x 7' (2.1m) x 17' (5.2m) compaction chamber
- 16 yd<sup>3</sup> (12.2 m<sup>3</sup>) capacity charge hopper
- Optional slab mounted pedestal design to ease installation
- Trailer/Container latch with wheel guides and stop

Compactor Hydraulic Power Unit:

- 200HP (149kW) Total; Dual 100HP (75kW) Drive Motors (TEFC)
- SSI designed and built with skid type base and heavy-duty heat exchanger
- Motor starter panel (NEMA 4), pre-wired and mounted on the hydraulic power unit

\*Nominal production rates and payload weight based on a hopper charge time of 30 seconds and feed materials of 350 lbs/yd<sup>3</sup>

**Controls:** Full Electrical Controls at 460V, 575V/60Hz or 415V, 380V/50Hz are included

Control Features:

- Local operator control panel with 12" touch screen
- SSI automated constant density program and operator interface
- 6" LED digital display (reader board) for tipping floor
- Remote operation via Hetric Remote Control
- Secure Modem for on-line troubleshooting/updates

Panel Design Standards:

- Programmable Controller
- UL-508 / CUL standards (listing additional, if required)
- Touch Screen Operator Interface
- NEMA 4 (IP66) Rated Enclosure(s)
- 24VDC Control System (other options available)
- 10% extra I/O space allowance

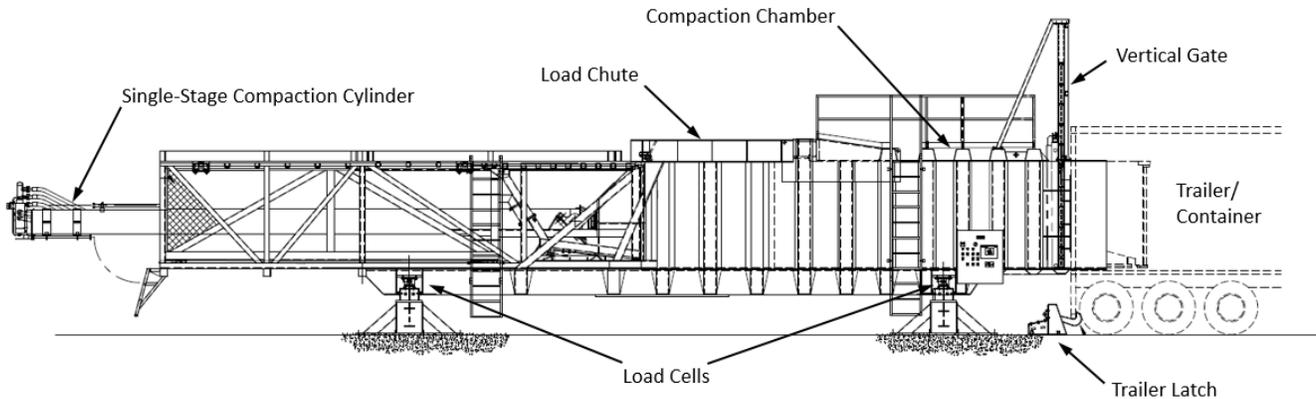
Control Notes:

- Integrated auxiliary device starters and control packages available at additional cost

**SERVICES:**

Assembled and tested prior to shipment  
 Documentation: 2 Sets of Operations & Maintenance Manuals  
 On-site technical assistance at start-up, and O&M training  
 Training to include 150 Hour visit after startup for maintenance training  
 SSI Standard Limited Warranty (copy available upon request)  
 24-Hour Technical Support (toll-free in the USA)

**DESIGN FEATURES & BENEFITS:**



SSI Designed Single Stage Compaction Cylinder  
 Specifically designed for use in Compactor  
 Ability to completely rebuild in-place  
 Highly reliable due to simplicity of design and redundant bearings

Trailer Latch set up to customer's specifications

6' (1.8m) x 9' (2.7m) Load Chute able to set up for top-loading or loading via conveyor

Load Cells provide repeatable instantaneous feedback of current load weight

**BASIC SPECIFICATIONS:**

Estimated System Weight:	156,600 lbs (71,032 kg)
Basic Footprint of System:	72' (21.95m) L x 9' (2.74m) W x 13' (3.96m) T*

\*Note: Height may change based on application and equipment configuration

## AVAILABLE OPTIONS:

**Included Option, Hardox Abrasion Resistant Plate Wall Liners** –SSI Compaction Systems introduced wall liners in 2003, and since then it has been included as an option in all domestic compactors. In the units installed with wear liners, wall wear has been kept to a minimum. These wall liners (and standard floor liners) keep the chamber walls and floor structure intact, therefore increasing the effective life of the compactor far beyond 20 years by providing a highly abrasion resistant replaceable plate that is independent of the structural support of the compactor.

**Included Option, Variable Frequency Drives (VFD's)**– Over the past several years, energy saving variable frequency drives have become a very common option along with Hardox wall liners. The energy savings is significant, as proven by an independent study by Seattle Public Utilities (available upon request) on VFD's installed on a new SSI 4500 SPH compactor compared to an existing SSI 4500 SPH compactor without VFD drives. The study showed compactor power savings of 40-50% by utilizing the VFD's. This savings is due to the main drive motors being reduced to zero RPM when hydraulic pressure isn't required to move cylinders, which is generally over 50% of the time. Along with the power savings, additional benefits include longer filter change intervals, as the equipment hours don't accumulate when the pumps are idle as well as smoother operation from the pumps ramping up and down smoothly instead of just relying on large valves to control pressure.

**Option, Comprehensive Spares and Toolkit**– The unit would ship with common wear and consumable parts that are typically needed in the first 1-2 years. These would include:

- 2 complete filter sets (typically these are needed every 3 months)
- 1 complete set of bearings for the Platen and Carriage (typically needed after 1-2 years)
- 1 set of gate wear strips for the lower track (typically needed after 1-2 years)
- 1 rear hopper scraper (typically needed after ~2 years)
- A lockable toolbox toolkit including all specialty and standard tools needed for working on the compactor. Along with standard hand tools, the kit includes cylinder rebuild jigs, rigging and porta-power jacks (10 and 75 ton), grinders and welding equipment (no welder, but hoods, regulators, cutting torch tips, etc), and a set of cordless equipment – battery powered grease gun, 1/2" and 3/4" impacts, and drill. Please note that this is a larger contractor box, so space will need to be allocated to it and a way to secure it once onsite.

## OPTIONAL INSTALLATION SUPPORT

**Optional Installation support will include the following:**

- All work completed at Prevailing Wage rates
- Once any required site pre-work is complete, remobilize with rigging and technician/millwright crew
- Transportation to Sunnyvale, CA of 2500 SPH Compactor and all components
- Offloading of new 2500 SPH compactor at site and positioning for installation
- Installation of anchors and pedestals
- Setting compactor on the pedestals and connecting all mechanical connections (hoses/etc)
- Commissioning and Startup with training (must occur on same mobilization as the installation – electrical will need to be completed during this time)
- Total of up to 14 continuous calendar days onsite for installation/commissioning/training phase of project
- Initial Oil Fill

**Optional Electrical Installation support will include the following:**

- All electrical work to start up compactor if feed power is within 30' of HPU Motor Starter Panel
  - Any additional work, such as installing new breakers, switchgear, conductors or conduit will be charged at time & materials + 17%

**Installation support will NOT include the following:**

- Removal of any existing compactor or site foundation pre-work
- Civil engineering to evaluate current foundation

**2500SPH COMPACTOR PHOTOS:**



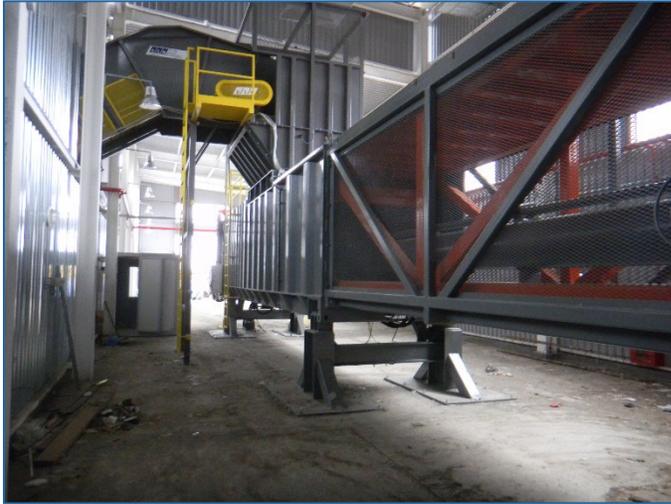
Hydraulic power unit (HPU)



Ejected bale in trailer



2500 SPH Front



2500 SPH Rear

**Note:** Installation photos may include optional features & equipment that are not included on this quotation. Please contact SSI with any questions you may have.

**PRICING – PRICES ARE QUOTED IN US DOLLARS (USD) AND EQUIPMENT IS EX-FACTORY**

<b>Model 2500SPH Compactor System as described with Wall Liners, VFD Drive, Tool Kit, and Spares:</b>	<b>\$1,720,691</b>
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**RECOMMENDED OPTIONS:**

<input type="checkbox"/>	Optional Installation Support as described on Page 3	\$639,019
<input type="checkbox"/>	Electrical installation assuming feed power is within 30' of HPU/Motor Starter Panel	\$112,205
<input type="checkbox"/>	Hopper to integrate with infeed conveyor including radar level sensor. Maximum Hopper Dimensions of 9' long x 6' wide x 10' tall.	\$40,232
<b>TOTAL PRICE as optioned above:</b>		<b>\$2,512,147</b>

**Note:** Please check all options that you would like to purchase. Any un-checked options will not be included this purchase agreement.

**Terms:** 35% deposit, 55% prior to shipment (PPS), 10% net 30 days from shipment; SSI STANDARD TERMS OF SALE APPLY. Note that units delivered more than 2 years from the date of purchase agreement may have price adjusted in line with an industrial producer's price index from the US Bureau of Labor Statistics such as PCU3332 (Industrial Machinery Manufacturing).

**Shipment:** Build to order equipment is typically 24-28 weeks after approved drawings and receipt of deposit. Drawings & Customer Acceptance Package can take 2-3 weeks from SSI's receipt of your purchase order. Compactor production can be impacted by other systems currently in the production que, contact SSI Sales at the time of order for lead time and production slot.

**Exclusions:** The following Exclusions apply to all options: Taxes, import duties or tariffs, drayage, dock fees, foundation (Concrete Slab supporting the Compactor), foundation design, power supply and supporting switchgear. If the Optional Installation Support option is NOT selected, the following Exclusions would apply: permits, licenses, freight, offloading, installation, site assembly, interconnecting wiring & conduit, hoses, piping and fluids.

**Date:** Pricing is valid for 45 days after original date of issuance – 4/30/25 Doc: Sunnyvale 2500 SPH Quote 4-30-25

**THIS PROPOSAL IS ACCEPTED IN ACCORDANCE WITH SSI'S STANDARD TERMS OF SALE AND SSI SHREDDING SYSTEMS, INC.'S LIMITED WARRANTY, BOTH ATTACHED HERETO.**

**Accepted by:**

Signature: X \_\_\_\_\_

Company: \_\_\_\_\_

Name & Title: \_\_\_\_\_

Date: \_\_\_\_\_

## LIMITED WARRANTY

**WHO IS COVERED.** This Warranty applies only to the entity who first bought the Equipment from SSI Shredding Systems, Inc. (SSI) or its authorized agents.

**WHAT IS COVERED.** This Warranty covers only Equipment both manufactured and supplied by SSI or its authorized agents. It does not cover consumable items such as fluids, filters, seals, wear strips, bearings, knives, or wiper blades.

SSI warrants that at the time of shipment, the Equipment is free from all defects in design, materials, and workmanship and that it will perform in accordance with the specifications or performance standards, if any, agreed to between the parties in writing.

**HOW LONG IS THE COVERAGE PERIOD.** This Warranty is for a period of twelve (12) months from the date of installation of the Equipment and commencement of initial testing, or fourteen (14) months from the date of SSI notification of readiness to ship equipment, whichever occurs first.

Hydraulic Compaction Cylinder (C-Ram) has an additional twelve (12) months of warranty from the date of installation, for a total of twenty-four (24) months from the date of installation.

Repairs to or replacement of Equipment under this Warranty will not extend the term of the Warranty.

**WHAT SSI WILL DO.** SSI will correct any Equipment that is defective or that does not perform substantially in accordance with its documentation or agreed specifications. If SSI is unable to correct such Equipment, SSI will, at its sole and exclusive option, either replace the Equipment (with new, updated, or factory-rebuilt equipment) or, upon return of the used Equipment, refund the purchase price less reasonable depreciation and freight.

These are your sole and exclusive remedies for any breach of warranty.

**WHAT SSI WILL NOT DO.** SSI does not warrant that operation of the Equipment will be uninterrupted or maintenance free. Unless specifically agreed to in writing, SSI does not warrant particle size, throughput rates or capacities of Equipment.

At the option of SSI, this Warranty will become null and void if any of the following conditions occur:

1. Failure to follow installation, storage, maintenance, operating instructions, accepted industry practices, or safety precautions.
2. Repairs or alterations to the Equipment made by anyone other than an authorized factory representative of SSI unless written approval is given by SSI.
3. Failure to timely complete and return to SSI the required warranty maintenance forms as specified in our maintenance and operating instructions.
4. Failure to install components or otherwise modify the Equipment as may be recommended and required by SSI from time to time.

**EXCEPT AS PROVIDED HEREIN, SSI MAKES NO OTHER EXPRESS WARRANTIES. SSI DISCLAIMS ANY AND ALL IMPLIED WARRANTIES INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**SSI'S LIABILITY UNDER THIS AGREEMENT IS LIMITED TO A REFUND OF THE PURCHASE PRICE FOR THE EQUIPMENT, IN ACCORDANCE WITH THE FOREGOING PROVISIONS.**

**SSI IS NOT LIABLE FOR SPECIAL, INCIDENTAL, CONSEQUENTIAL, INDIRECT OR OTHER SIMILAR DAMAGES ARISING FROM ANY BREACH OF WARRANTY OR CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR OTHERWISE, EVEN IF SSI OR ITS AGENT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.**

**HOW CAN YOU GET SERVICE.** You must contact our customer service department during the warranty period and clearly describe and fully document the problem you are experiencing with the Equipment. You must also make the Equipment available for SSI's inspection and repair upon reasonable terms or, at SSI's sole option, you may be required to deliver certain components, freight prepaid, to SSI for inspection, replacement, or repair. SSI will return new or repaired components to you freight collect.

Any on-site labor costs incurred by SSI at the Buyer's request will be the responsibility of the Buyer for which SSI will be paid in accordance with its normal rates for such work. All transportation expenses associated with SSI's on-site service, repair or replacement of the Equipment, whether or not pursuant to the Warranty, will be the responsibility of the Buyer.

**OTHER CONDITIONS.** The agents, employees, distributors and dealers of SSI are not authorized to modify this warranty, nor to make additional warranties. Accordingly, any statements or representations not contained in this Warranty, oral or written, are not binding on SSI and should not be relied upon as a warranty of SSI unless in writing and signed by an officer of SSI.

SSI's pricing of the Equipment reflects the allocation of risk and the limitations of liability contained in this Warranty.

No claim for breach of warranty, or any other claim, in tort, contract, or otherwise, arising out of or related to the Equipment, may be commenced more than one (1) year following the expiration of the warranties set out above or the accrual of the claim, whichever occurs earlier. Litigation on any such claim must be commenced in Oregon and will be governed by Oregon law.

The limitations of liability and other provisions of this Warranty shall inure to the benefit of SSI, its assigns or successors, and any manufacturer of components contained in the Equipment.

Rev. 02/17

## STANDARD TERMS OF SALE

**QUOTATION.** Written proposals are submitted for acceptance within thirty (60) days of issuance, unless a shorter period is specified. A Proposal shall become a binding contract only when accepted by the Buyer in writing and approved by an executive officer of SSI Shredding Systems, Inc. ("we", "us", or "our"). In that event, the Proposal, these Standard Terms of Sale, and the Limited Warranty shall constitute the entire contract and shall supersede all prior communications, oral or written. Thereafter, the contract may be modified only in writing and signed by authorized representatives of the Parties.

**PRICES AND TAXES.** Prices quoted are in U.S. dollars and are effective as of the date of the proposal and subject to change. Prices quoted do not include sales, value added, inventory, use or other taxes, which are the sole responsibility of Buyer. If Buyer is exempt from the payment of any tax, it is Buyer's duty to furnish us the proper exemption certificate.

**WARRANTY.** The only warranty applicable to any sale is our LIMITED WARRANTY in effect at the time of any sale. A copy of the current LIMITED WARRANTY is available upon request. **ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY EXCLUDED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.**

**LIMITATION OF LIABILITY.** If there is a breach of any warranty extended by us, our obligation shall be limited to repairing or replacing any good that does not conform to any warranty given. At our option, or in the event that we are unable to repair or replace any good sold, Buyer's sole remedy shall be the return of the good and the refund of the purchase price actually received by us. In that event, Buyer agrees to pay the fair reasonable value for any use of the good. Buyer shall pay the cost of the return freight. In all cases we shall have no liability for any special, incidental or consequential damages of any kind, whether arising in tort, contract, strict liability or pursuant to any statute or otherwise. Buyer further agrees that any claim against us shall be brought within one (1) year from the date when the claim arises, or Buyer shall be forever barred from bringing any such claim.

**DELIVERY.** Shipping dates are estimates only, and are not a part of the agreement of sale. Delivery terms are F.O.B. FACTORY, Wilsonville, OR. Risk of loss and title shall pass at the point of shipment. We will package the goods being sold for shipment as we deem appropriate, and may ship goods in one or more shipments.

**EXCLUSIONS.** Installation, unloading, site reassembly, permits, licenses, inspection fees, hoses, piping and fluids are not included unless expressly specified in the signed Proposal or other written contract document.

**PAYMENT TERMS.** Where credit is extended, unless otherwise agreed, (1) All equipment shall be paid for as follows: 35% with order, 55% prior to shipment, 10% net 30 days from shipment. If we, in our sole judgment, feel reasonably insecure as to Buyer's ability or willingness to pay for the goods, we may require payment of additional portions of the purchase price, whether in full or in part, prior to releasing possession of the goods. All payments are to be made solely to SSI Shredding Systems,

Inc., 9760 SW Freeman Drive, Wilsonville, OR 97070, and shall be effective solely upon receipt by us and not upon mailing or delivery to any other form of transportation.

**DELAYS.** We shall be entitled to an extension of time for the performance of any contract for any cause or condition beyond our control, including the following: Lack of correct or complete data furnished by Buyer, changes or revisions in specifications whether or not consented to by Buyer, fire, strikes, orders of civil or military authorities, insurrections, riots, vandalism, disasters, transportation delays, late shipments by suppliers, inability to obtain competent labor, or inability to obtain competent labor or satisfactory materials or components at rates or prices in effect at the time of contracting.

**STORAGE.** If we notify Buyer that goods are available for shipment, and Buyer is unable or unwilling to take delivery of the goods, we shall invoice the goods at that time and prior to shipment, and payment shall be due in accordance with the PAYMENT TERMS above. Thereafter Buyer shall also be responsible for reasonable storage charges up to the time when said goods are shipped.

**SECURITY INTEREST.** To secure payment of all sums due from Buyer to us, Buyer hereby grants to SSI Shredding Systems, Inc. a security interest in the goods purchased, including all parts and accessories purchased with them, whether or not attached, and in the proceeds and products thereof. Buyer hereby authorizes us to execute any documents, including signing Buyer's name, in order to perfect such security interest.

**RETURNED GOODS.** No goods may be returned without our prior written authorization. All transportation costs for any returned goods are for the account of Buyer and to be paid prior to shipment. Any good otherwise returned may be refused by us. Under no circumstances will we accept a return of goods manufactured to Buyer's specifications.

**CANCELLATION.** No order may be cancelled except with our prior written agreement. We retain the sole and exclusive discretion whether to do so. If we permit Buyer to cancel an order, we will impose a cancellation fee and restocking charge to be determined by us, which amount shall be in our sole discretion.

**PRODUCT IMPROVEMENT.** We reserve the right to change the construction or design of any product ordered by Buyer if we, in our own sole discretion conclude that said alteration results in an improvement to the goods being purchased.

**OREGON LAW/ATTORNEY FEES.** If any invoice is not paid when due, Buyer will pay all collection costs, including attorney fees, if any, incurred by us to collect any money owed to us by Buyer, even if no suit is filed. In addition, Buyer agrees to pay a finance charge of 1.5% per month (18% per annum) on the entire unpaid balance or the maximum rate permitted by law, whichever is less. In the event that an action is filed in connection with any transaction between Buyer and us, whether in tort, contract, strict liability or pursuant to any statute or otherwise, Buyer consents and agrees that the state courts of Oregon shall have exclusive jurisdiction over the parties and the controversy. Buyer and we agree that both parties waive the right to a jury trial in the event of the filing of any action involving the goods, including but not limited to payment therefore, and to submit any controversy to a judge without a jury. In the event of any action, Buyer agrees to pay all costs of any action to collect the balance owed, including without limitation all attorney fees in any trial court and on any appeal.