



**Solid Waste Division**

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FY25 Solid Waste Creativity with Waste Reduction Grant Application

**1. Local Government Name:**

County of Greenville Solid Waste Division

**2. Key Contacts:**

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**3. Overall Project Description:**

Greenville County (GC) seeks to revive its composting facility following the closure of Atlas Organics, its former partner. The project involves amending the permit, refurbishing the facility, acquiring equipment like a trommel screen, and recommencing composting operations to cater to food waste collectors and generators in the Upstate region.

**4. Items for Grant Funding:**

Grant funds will be allocated towards purchasing a trommel screen for compost operations.

**5. Target Audience and Communication Strategy:**

Target audience includes curbside and commercial collectors, residents who separate organic waste, gardeners, and farmers. Communication will utilize GC's Solid Waste Website, signage at waste centers, and distribution of brochures.

**6. Projected Timeline:**

The project is in the planning stage. Permit amendments and equipment assessment are underway. Once approved, installation and testing will follow.

**7. Community Partners and Support:**

Partners like Smart Recycling, Landscapers Supply, Betterearth, and Republic Services have provided letters of support.

**8. Community Benefits and Program Efficiency:**

The project will establish a Public Sector Organics Collection and Composting Facility, initially producing 4,000 tons of STA Certified compost annually, promoting waste diversion and public participation.

**9. Utilization of Existing Infrastructure:**

The project will repurpose the site formerly operated by Atlas Organics, leveraging existing infrastructure.

**10. Sustainability Beyond the Grant:**

After grant completion, operations will continue with County staff, support from identified partners and the public. Revenues through tipping fees and compost sales will provide the funding for the program.

**11. Regional Impact:**

The facility will serve the Upstate Region, promoting organic recycling drop-off locations, opportunities for industrial and commercial generators.

**12. Regional Application Breakdown:**

Not applicable.

**13. Budget:**

DZT621 Series Trommel:

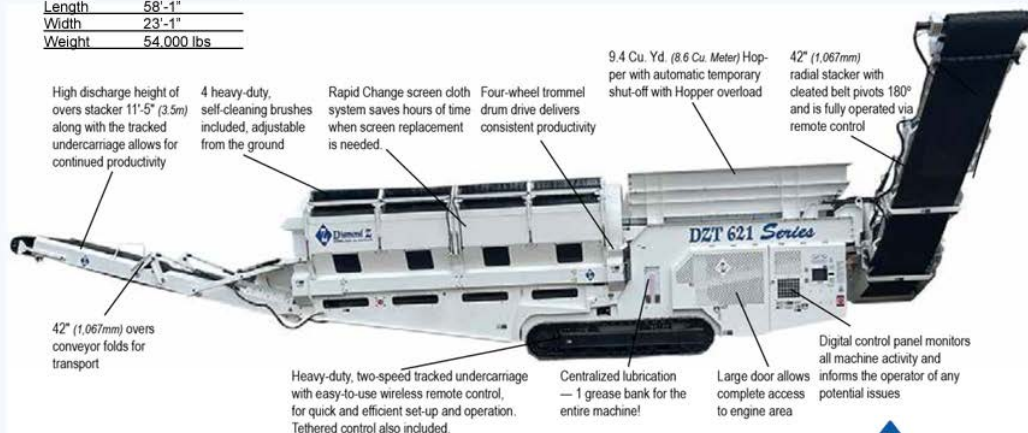
Trommel: \$455,000.00 (plus tax, shipping, and extended warranty)

**TOTAL AMOUNT REQUESTED \$100,00.00**

## OVERVIEW DIMENSIONS

**DZT621 OPERATING SPECIFICATIONS**

Height	11'-5"
Length	58'-1"
Width	23'-1"
Weight	54,000 lbs



High discharge height of overs stacker 11'-5" (3.5m) along with the tracked undercarriage allows for continued productivity

4 heavy-duty, self-cleaning brushes included, adjustable from the ground

Rapid Change screen cloth system saves hours of time when screen replacement is needed.

Four-wheel trommel drum drive delivers consistent productivity

9.4 Cu. Yd. (8.6 Cu. Meter) Hopper with automatic temporary shut-off with Hopper overload

42" (1,067mm) radial stacker with cleated belt pivots 180° and is fully operated via remote control

42" (1,067mm) overs conveyor folds for transport

Heavy-duty, two-speed tracked undercarriage with easy-to-use wireless remote control, for quick and efficient set-up and operation. Tethered control also included.

Centralized lubrication — 1 grease bank for the entire machine!

Large door allows complete access to engine area

Digital control panel monitors all machine activity and informs the operator of any potential issues



## SPECIFICATIONS

**DIAMOND Z DZT621 TROMMEL****POWER SYSTEMS and STRUCTURE**

- CAT® 110 HP (82kw) Tier IV Final diesel engine
- 80 gallon (302L) fuel tank allows 16+ hours of continuous run-time
- 125 gallon (473L) hydraulic tank with cooler
- Tracked undercarriage with 16" (400mm) shoe width
- Centralized lubrication — 1 central grease bank for the entire machine!

**TROMMEL SCREEN**

- 6' x 21' (1.8m x 6.4m) trommel drum
- 340 Sq. Feet (31.6 Sq. Meters) of actual screen cloth
- Cable/hinge lock design (Rapid Change System) allows quick screen replacement. No additional drum purchase required
- 4 self-cleaning brushes, adjustable from the ground, maintain efficient performance
- Screens included are standard wire cloth 3/8" - 2" (10mm - 50mm)
- Heavy-duty steel drum shell with large triangular tumbling paddles
- Four-wheel trommel drum drive
- Barrel angle adjustable from 0-6°

**CONVEYOR/BELTS**

- Cleated overs belt is 42" (1,067mm) wide, 220 PIW
- Cleated stacker/fines belt is 42" (1,067mm) wide, 220 PIW
- Unders belt is 48" (1,220mm) wide
- Feeder belt is 42" (1,067mm) wide
- Spring-loaded scraper bars
- Four guide rollers per conveyor for belt tracking
- 14'-8" (4.4m) discharge height on side conveyor allows direct truck loading

## HOPPER



1. 9.4 Cu. Yd. capacity
2. Feed height = 11'-6"
3. Dimensions: 13'-3" l x 5'-11" w
4. Feeder belt width = 42"
5. Automatic temporary feeder shut-off on overload
6. Remote control reverse function to clear jams



## DRUM



1. Adjustable angle: 0-6°
2. 6'-0" radius, 21'-0" long
3. 340 Sq. Ft. screen cloth area
4. Recommended screen gaps = 3/8"-2"
5. Rapid Change screen system allows for easy screen removal and replacement
6. Heavy-duty lift paddle design inside drum ensures thorough processing
7. Variable speed – 0-35 RPM



## FINES RADIAL STACKER



1. 42" wide cleated belt
2. 180° pivot for radial stacking
3. Control via remote or manual



Trommel \$455,000.00 plus tax, shipping and extended warranty.

**14. Additional Funding:**

Any shortfalls beyond grant funding will be addressed through Greenville County Solid Waste Division's capital equipment budget.