

## An Environmentally Friendly Alternative to Grinding



### Additional Benefits Include:

- Low capital investment
- High mass reduction 95 to 98% waste reduction (100 tons of wood = 2 - 5 tons ash) increases landfill life
- High through-put up to 10 tons per hour
- Dramatically reduced operating costs when compared to grinding
- Environmentally friendly. Exceeds EPA & FDEP regulations for Air Curtain Incinerators
- Ash can be used as a soil additive
- One operator can monitor and load one or two machines





# T-300 Trench Burner vs. Chipper Cost Comparison

(100 Tons)

	T-300 Air Curtain Burning	Chipping & Landfill Disposal	Direct Landfill Hauling & Disposal
<b>Cost of Machine</b>	\$35,950	\$220,000	-
<b>OPERATING COSTS</b>			
<b>Fuel Cost</b> (T-300: 10 hrs; Chipper: 6 hrs)	\$88	\$630	-
<b>Maintenance and Repairs</b> (T-300: \$0.60/hr; Chipper: \$16.00/hr)	\$6	\$96	-
<b>Hauling of Residual to Landfill</b> (50 Miles @ \$4.00/mile with 20-ton Dump Truck)	\$200 (1 load)	\$2,400 (12 loads)	\$5,000 (25 loads)
<b>Tipping Fees at Landfill</b> (\$30 per Ton)	\$90	\$2,940	\$3,000
<b>Total Disposal Cost for 100 Tons</b>	<b>\$384</b>	<b>\$6,066</b>	<b>\$8,000</b>

**NOTES:**

1. Chipper, approx. 400HP, Diesel fuel consumption: approx. 30 gal/hr. Diesel fuel at \$3.50/gal.
2. Chipping process and chip handling produces large amounts of particulate matter (PM) in the form of wood dust that can cause serious illness in exposed workers. Wood dust is a proven carcinogenic (cancer-causing). Chipping losses, mostly in form of wood dust, are approximately 2% or 2 tons in this example. Only 98 tons of wood chips are deposited into the landfill.
3. Air Curtain Burner residual is 3 tons of ash, hauled by 1 truck, but is usually land-applied on site; Chipper residual yields no weight reduction, but does provide significant volume reduction. In this example, waste is hauled by at least 12 trucks, each carrying approximately 22 cubic yards or 5 – 6 tons.
4. The T300 is a portable in-ground trench burner that can easily be moved with a standard 3/4 ton pick up truck. See [www.AirBurners.com](http://www.AirBurners.com)

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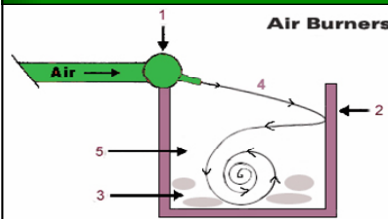
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## Principles of Operation

The Waste  
is  
the Fuel



1. High velocity curtain (4) traps particles under the curtain
2. Particles under curtain (5) are reburned

