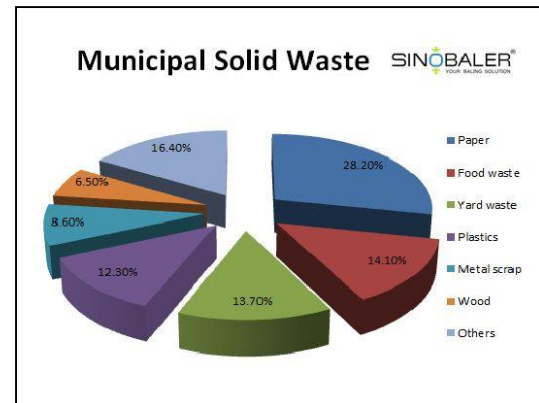


Low Cost, Scalable, Modular Sorting Technology for Municipal Solid Waste

Nalin Kumar, Ph.D.
President
nanoRANCH
UHV Technologies



UHV's Patented Technology

- Latest Artificial Intelligence Technology developed with US-DOE ARPA-E METALS funding over the last 5 years
- Selection of categories based on 'LOOKS'
 - Simple Example: Al cans, plastic bottles & glass bottles from municipal waste
 - Different aluminum alloys for wrought, extrusions and cast products
 - Zorba into as many as 15 different outputs such as copper, brass, zinc, SS etc.
- Multiple output streams for 16-32 product Categories
- Adjust output stream composition to meet requirements
- User Friendly software can be trained for any "Look"
- Almost 100% accuracy is possible
- Sorting accuracy increases as you run more material
- Technology is scalable for width
- Air-jet, vacuum, electro-magnetic rejection & robotics for pick-up

Why Sorting? Higher Profit

Example of Automotive Metal Scrap

Sorting of a Truckload (40,000 lbs) of Automotive Metal Scrap

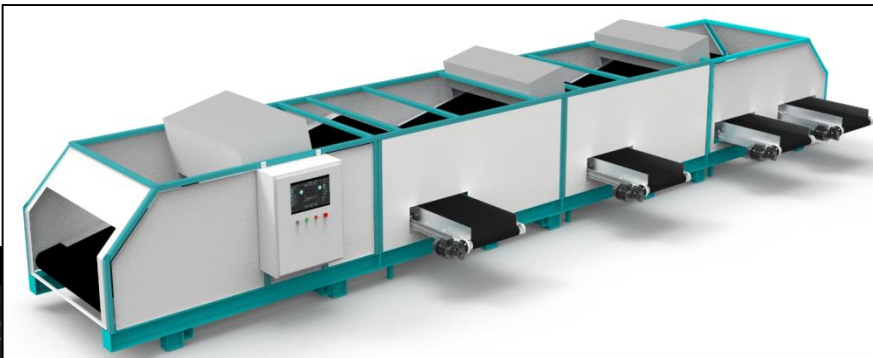
		Weight (lbs)	Price \$/lb	Value \$	TOTAL \$
Un-Sorted Scrap		40,679	\$ 1.00	40,679	\$ 40,679
	Copper	14,170	\$ 2.20	\$ 31,174.00	
	Brass	8,890	\$ 1.80	\$ 16,002.00	
	Zinc	12,270	\$ 0.75	\$ 9,202.50	
	Aluminum	4,583	\$ 0.55	\$ 2,520.65	
	Coins	70	\$ 15.00	\$ 1,050.00	
	PCBs	12	\$ 1.00	\$ 12.00	
	SS	10	\$ 1.50	\$ 15.00	
	Leftover	674	\$ 0.25	\$ 168.50	
SORTED Scrap			TOTAL		\$ 60,145

Key to Value: Use/Recover/Recycle EVERYTHING

UHV's Metal Sorters



UHV's Metal Sorters



**100 million lbs/yr Automotive
Scrap Sorter in Fort Worth, TX
\$0.02/lb sorting cost**

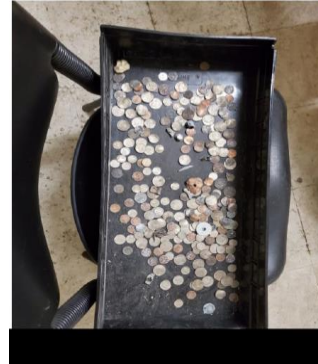


UHV's Sorters

Coin Sorter



Coin Fraction



Scrap

