



VERTISA 
www.MedicalWasteTechnology.com

Hablamos Español

**Eco-Friendly & Cost Effective
 Custom Made and OEM Medical Waste Technologies**



We manufacture and ship worldwide!

Pre & Post Shredding Autoclaves - Shredders - Water & Steam Recycling - Boilers - Compactors & Odor Control Systems



**3956 Town Center Blvd Ste 217
 Orlando, FL 32837 USA**

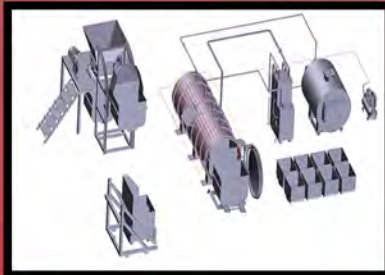
**Tel. in USA +1 (407) 852-8277
info@VertisaUSA.com**

Post-Shredding Medical Waste Systems

Our systems are designed and custom built to meet your project needs. It has a Touch Screen computer operated control system (PLC). The system is easy and safe to operate and online support is available.

We use the highest quality 316 and 321 Stainless Steel that will work in different environments, conditions, climates and altitudes. Our autoclaves have an automated quick opening door and locking mechanism with a powerful vacuum pump. Once cycle is completed, the chamber is **AIR COOLED** by our (Patent Pending) system and waste is ready for Shredding and Disposal.

We supply Shredders, Boilers, Odor Control, Compactors, Water and Steam Recycling Systems

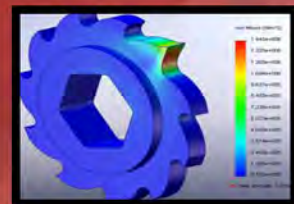
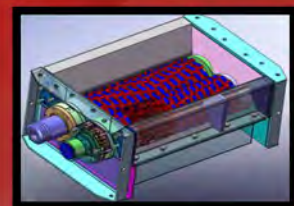


TECHNICAL FEATURES	75 A	150 A	300 A	500 A	1000 A
-Size (L x W x H) (mm)	1500 x 1500 x 1500	2200 x 1500 x 1500	3000 x 2000 x 2000	5500 x 2250 x 2250	6000 x 2500 x 2500
-Weight - Empty (kg)	1450	1850	2800	4600	6400
-Weight - Filled with water (kg)	NA	NA	NA	NA	NA
-Steam Pressure (bar max)	5	5	5	5	5
-Air Pressure (bar max)	8	8	8	8	8
-Electrical connection required	17 KW (Shredder incl.)	17 KW (Shredder incl.)	19 KW (Shredder incl.)	33 KW (Shredder incl.)	35 KW (Shredder incl.)
WORKING CHARACTERISTICS					
Sterilizing Capacity Kg/ Hour	75	150	300	500	1000
-Capacity - Volume (Lt.)	400 (net vol. only)	870 (net vol. only)	2000 (net vol. only)	3500 (net vol. only)	7500 (net vol. only)
-Average Waste Density kg/m3	100 - 125	100 - 150	100 - 150	100 - 150	100 - 150
-Average Cycle Time (Min.)	30	30	30-40	30-45	30-45
-Maximum Steam Flow (Kg/Hour)	250	290	380	670	950
-Sterilization Efficiency (SAL)	8 Log 10	8 Log 10	8 Log 10	8 Log 10	8 Log 10
CONSUMPTION / CYCLE					
-Steam (kg)	11	13	32	45	70
-Electricity (Kw)	3	4	7	11	16
-Water (Lt.)	None	None	None	None	None
-Steam RECYCLING UNIT used (kg)	8	9	22	31	49

Shredders

VERTISA OD SERIES are available to customer and project needs. Our dual shaft shredders are ideal for shredding ALL types of Medical Waste including plastics, syringes, needles, bandages, gauze, glass, catheters, blood and urine bags, tubes and more.

We also manufacture shredders for different applications, sizes and speeds for Shredding Paper, Cardboard, Packing, Industrial Waste, Tires and others uses.



TECHNICAL DATA		OD-30	OD-44	OD-60	OD-110
Driving Power	<i>kW</i>	1 x 15	2 x 15	2 x 30	2 x 55
Ram Feeder Power	<i>kW</i>	-	-	-	-
Number of Cutter Disks		18	30	30	30
Cutter Disk Thickness	<i>mm</i>	23	23	23	50
Shaft Diameter	<i>mm</i>	85	85	85	160
Cutting Chamber	<i>mm</i>	505 x 507	505 x 607	505 x 607	875 x 1350
Hopper Opening	<i>mm</i>	1300 x 1300	1600 x 1600	1600 x 1600	2300 x 2850
Shaft Speed	<i>rpm</i>	30	30	30	30

We manufacture and supply custom made Shredders

Pre-Shredding Medical Waste Systems

Our innovative Medical Waste Solution, combines Shredding and Sterilization in the same chamber Guaranteeing 100% sterilization. All types of medical waste can be treated in the vessel at the same time.

After treatment waste is not recognizable, it is sterilized, and can be disposed safely as ordinary waste. The volume will be reduced by 60 to 80%, minimizing disposal costs and reducing the impact on the environment and improving work efficiency.

Waste is dried and chamber is **AIR COOLED** by our (Patent Pending) system. Our Pre-Shredding Systems are available with Odor Control, Gas or Diesel Boilers, Compactos, Water and Steam Recycling System.

Sterilization & Shredding Process

1. Loading

A fully automated waste bin elevator fills the chamber with medical waste then the lid closes automatically.

3. Heating & Sterilization

Saturated steam is applied in the whole chamber. Temperature will raise to 138° C (280° F) and inside vessel pressure will reach 3.8 bars (55 psi) for a minimum period of 10 minutes to Guarantee 100% Sterilization.

5. Draining and Vacuum

The condensed water is Sterile and can be safely discharged into the sewage at low temperature. The excess steam inside the chamber is vented or recycled.

2. Shredding

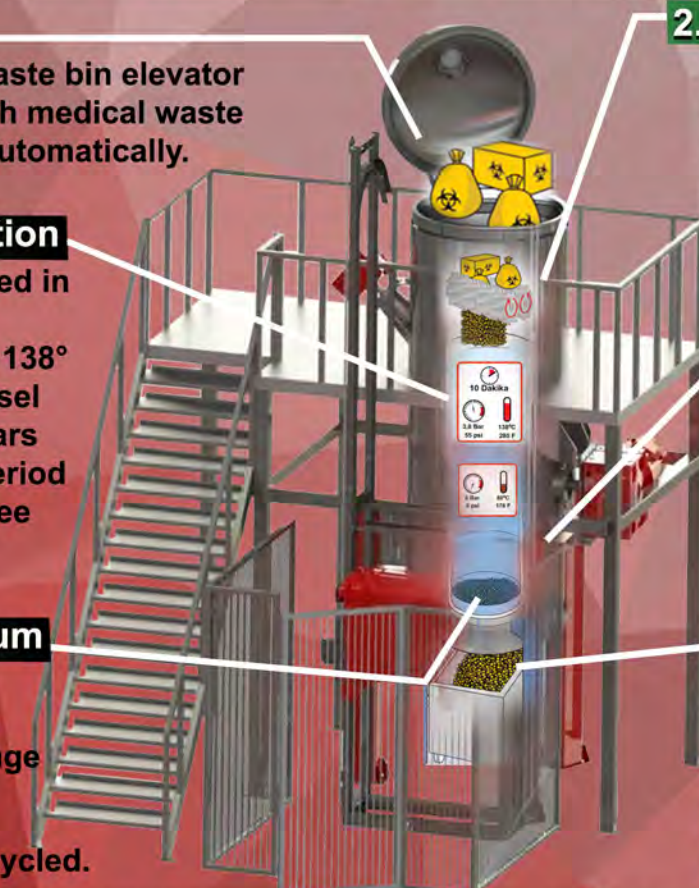
Once chamber is closed, our heavy duty double shaft shredder will start to work. Shredder rotates forward and backwards to avoid jamming until all waste is shredded.

4. Air Cooling

The inside temperature of vessel is lowered to 60°-80°C by blowing **COOL AIR** (Patent Pending) system and waste becomes drier and volume is reduced by 60% to 80%.

6. Unloading

Only when all phases of Shredding and Sterilization are completed the lower doors open to discharge Clean Waste to a bin. Waste is safe to transport it to landfill as ordinary waste.



TECHNICAL FEATURES	PROMED 2000	PROMED 1000	PROMED 500	PROMED 300
Size (L x W x H) (mm)	3000 x 3000 x 7000	2250 x 2500 x 5500	2250 x 2250 x 4500	2000 x 2000 x 3900
Weight - Empty (kg)	5500	3700	2700	2000
Compressor Air Pressure, bar	35 KW	8	8	8
Electrical required		20 KW	19 KW	15 KW
WORKING CHARACTERISTICS				
Sterilizing Range, kg/cycle	260 - 390	130 - 195	65 - 98	39 - 59
Process Volume Capacity, lt	2600	1300	650	390
Waste Density Range, kg/lt	0.10 - 0.15	0.10 - 0.15	0.10 - 0.15	0.10 - 0.15
Cycle Time Range, min	45 - 50	35 - 45	35 - 45	30 - 35
Steam Flow Range, kg/hr	420 - 700	280 - 480	190 - 320	160 - 270
Sterilization Efficiency (SAL)	8 Log 10	8 Log 10	8 Log 10	8 Log 10
CONSUMPTION / CYCLE				
Steam, kg	40	20	15	11
Electricity (kw/hr)	15	9	5	3
Water (lt)	<100	<100	<100	<100
Special Consumables	none	none	none	none



Touch Screen Panel Control



Boiler & Air Compressor Pump

VERTISA manufactures Gas, Diesel, Electric and Water and Steam Boilers!

COMPACT AXL Systems 50-100-150L

VERTISA introduces a new Plug and Play advanced technology solution for in-situ treatment of Medical Waste. These systems are ideal for Labs, Clinics and Hospitals.

Our systems are totally integrated combining a Shredder and Sterilization with Electric Generator in the same unit. COMPACT AXL systems are available Stand Alone, Covered and inside a 20ft Modular.



COMPACT AXL systems shreds and sterilizes Medical Waste on the same vessel. It comes with a computerized control and touch screen panel.

The Shredding systems have a dual axis rotation that changes directions automatically to avoid jamming and when installed it occupies an space of 2 x 2 x 2 sq meters. COMPACT AXL are built of 316 or 321 Stainless Steel, they are robust, plug and play, easy to operate and available with Odor Control system.

TECHNICAL FEATURES	PROMED 50	PROMED 100	PROMED 150
Size (L x W x H) (mm)	1300 x 1100 x 1600	1300 x 1100 x 1750	300 x 1100 x 1850
Weight - Empty (kg)	780	870	960
Weight - Filled with water (kg)	1420	1600	1840
Steam Pressure (bar max)	5	5	5
Air Pressure (bar max)	8	8	8
Electrical Connection Required	380 V / 50 Hz / 7 KW	380 V / 50 Hz / 9 KW	380 V / 50 Hz / 11 KW
WORKING CHARACTERISTICS			
Sterilizing Capacity (Kg/ Hour)	15 - 20	25 - 35	40 - 50
Chamber Capacity - Net Vol. (Lt.)	50	100	150
Average Waste Density kg/m ³	100 - 125	100 - 125	100 - 125
Average Cycle Time (Min.)	25 - 30	25 - 30	25 - 30
Maximum Steam Flow (Kg/Hour)	170	170	170
Sterilization Efficiency (SAL)	10 ⁻⁸	10 ⁻⁸	10 ⁻⁸
CONSUMPTION /CYCLE			
Steam (kg)	10	12	15
Electricity (Kw/Hour)	2,2	3,1	4,1
Water (Lt.)	0	0	0

VERTISA is revolutionizing the Medical Waste Industry with innovative technology to serve your projects needs!

Call us Today, for a Free Consultation and Quote

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