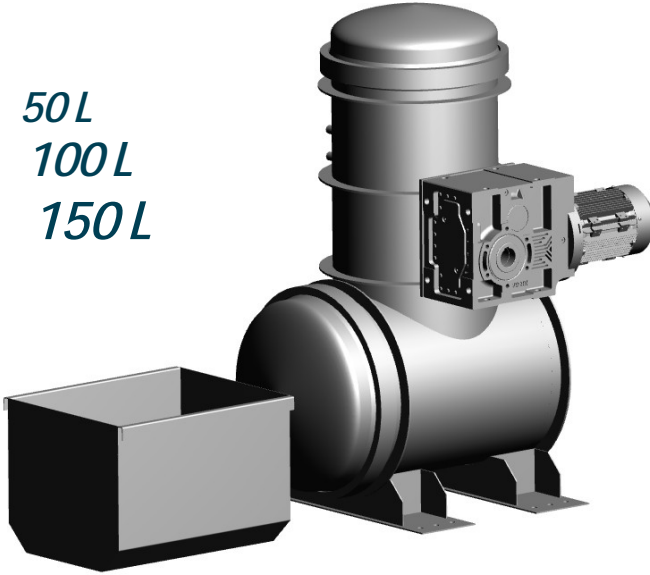


Promed Pre-Shredding Technology

50L
100L
150L



 **PROMED**® by **VERTISA**

Definition of problem

The toxic waste is a mass of contaminated waste which may contain syringes, needles, paper, plastics, glass, textiles, cultures pathological waste, blood products, sharps, tissues and infectious materials produced by the medical industry in clinics, hospitals, labs and research centers.

Medical waste resulting from Health Care activity should be handled carefully and responsibly for its proper disposal. Healthcare facilities as well as local Government regulations must monitor and eliminate the contaminated medical waste without endangering the health of workers, public safety and our environment.

Our solution

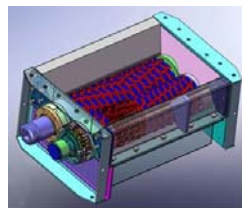
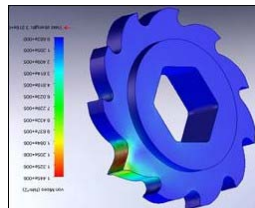
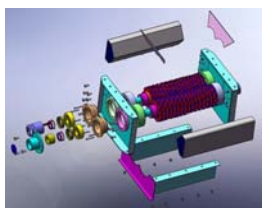
VERTISA has designed and developed innovative, fully enclosed, fully automated medical waste technology systems that shred, reducing its volume and sterilize the contaminated waste.

Before transporting the waste to public landfill sites, the waste must be sterilized and shredded. The essence of our solutions is that the contaminated waste is sterilized and shredded into very small parts inside our PROMED Medical Waste Technology.

The process starts with the contaminated waste is lifted to the upper part of the autoclave where the waste is grinded. The waste including the unwanted parts are crushed and discharged into the lower part of the autoclave. Then we apply steam pressure that increases to 3,8 bars (55 psi) as well as the temperature is increased to 138 C degrees (280 F) for 10 minutes.

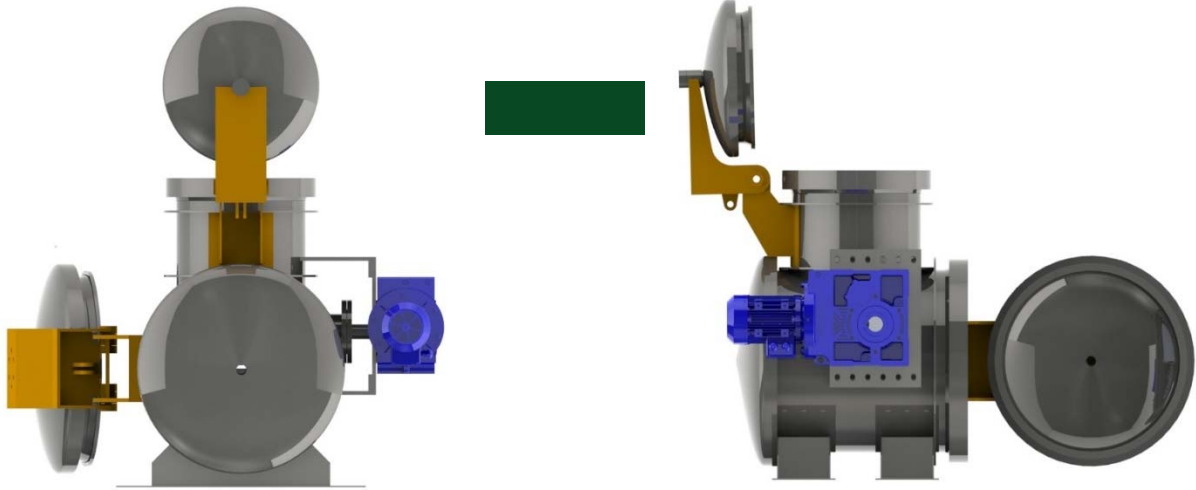
The whole operation process is fully automated and the full cycle typically last 35 to 60 minutes depending on the waste being processed. The volume decreases by 60 to 80% of the original waste volume when fully treated. The final result is a crushed mass (sterilization level 6log10) which now is harmless and safe to dispose as an ordinary municipal public waste.

The combination of Shredding, Direct Heated Steam and High Pressure ensures complete sterilization!



VERTISA 
MEDICAL WASTE TECHNOLOGY

Promed Pre-Shredding Technology



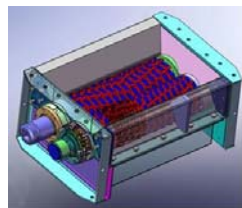
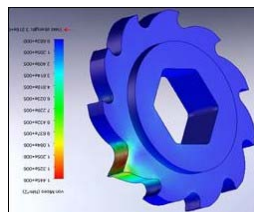
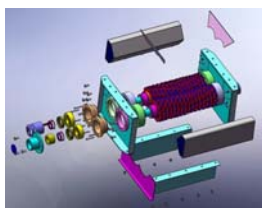
NEW PROMED AXL, THE SOLUTION FOR ITS TREATMENT IN SITU HOSPITAL WASTE.

Sterilization and shredding on the same system.
Electric generating system with integrated steam.
Grinder discs and dual-axis rotation direction changes automatically to avoid jams.
Odor control system.
Plug & Play system for easy connection to water and electricity.

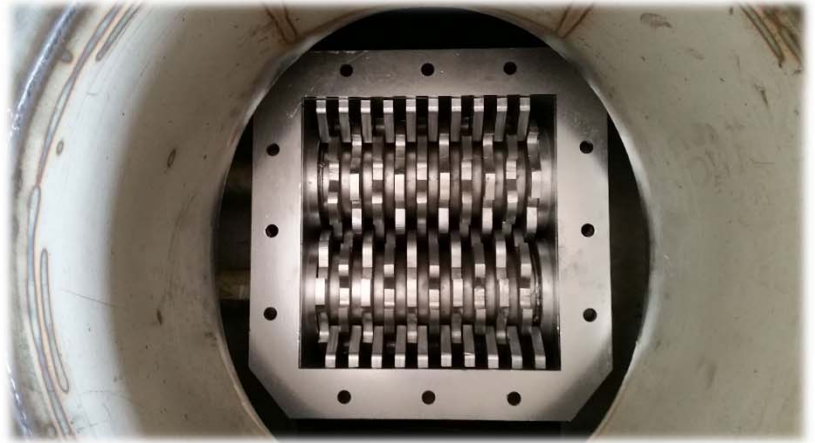
Design that allows easy operation for loading and unloading waste.
Low maintenance costs since it does not have many moving parts.
It occupies a space of 2 x 2 x 2 meters for installation.

Compact with everything required for optimal working in the same structure.

Sterilizer integrated steam generator and control panel; all in one.



Promed Pre-Shredding Technology



3956 Town Center Blvd Ste 217, Orlando, FL 32837, USA
TEL. 1-407-852-8277 • FAX 1-877-459-7056 • Info@MedicalWasteTechnology.com • www.MedicalWasteTechnology.com

Pre-Shredding Sterilization - Technical Data

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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/m3	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



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