



**ATUL DRUG HOUSE**



**BIOMEDICAL, PHARMACEUTICAL WASTE SHREDDING MACHINES  
& NEEDLE SYRINGE DESTROYER**





## NONINFECTIOUS BIOMEDICAL WASTE SHREDDING MACHINE



The noninfectious Biomedical waste shredding machine is used to destroy waste such as Syringes, scalpels, glass vials, blades, plastics, catheters, broken ampoules, intravenous sets/bottles, blood bags, gloves, bandages etc.

Shredding is a process by which waste is de shaped or cut in to smaller pieces, so as to make the waste unrecognizable. It helps in prevention of reuse of noninfectious Biomedical waste and also acts as an identifier that the waste is safe to dispose off.

Our products are research backed, cost effective shredding solution with a focus on shredding as a key factor in solid waste management. It shreds dry and wet waste.

An effective shredding mechanism of crocodile Bite method (patent pending by our manufacturer) is used. The crocodile bite technology operates with 'V' shaped fixed cutter & multiple rotary shearing discs. The fixed cutter mounted at an angle is adjacent to rotary shearing discs to achieve better cutting. The material is grabbed between 'V' shaped rotary discs & fixed cutters shreds repeatedly. The over cut of rotary discs avoids coiling of material and jamming of rotary shaft.

### Why ADH Shredding machine



**Versatility** : It shreds soft plastic bottles, Tubing, hand gloves & also hard syringes.



**No Air Pollution** : Dust & fumes is not generating while shredding.



**No sound pollution** : Low cutting speed hence, low noise level.



**Safety Features** : All safety features like Overload protection, Short circuit protection, Door open cut off switch & reversal of rotation is provided.



**Low Electrical Consumption** : It consumes less electricity than other shredder.



**Operator friendly** : The simple construction provides better operating environment.



**Less maintenance cost** : Fixed cutter can be reground several times reduces the cost of spares.



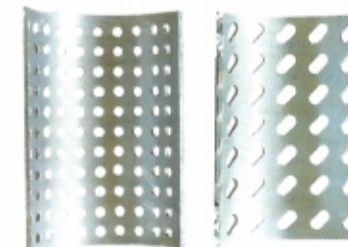
**Shock Loading** : In case of non shreddable material in cutting chamber, machine will stop automatically to avoid damages.



Easy removable trolley ▲ of shredded waste.



Complete tilted hob ▲ for easy maintenance & cleaning.



▲ Specially designed mesh.



▲ Shredded waste after shredding.

### Technical Specifications

Model-ADH	BS 90	BS 900	BS 909	BS 990
Shredding capacity KGS/Hr	25	50	100	200
Shredding chamber size LxW (mm)	260x200	320x200	400x200	600x200
Loading Hopper size LxH (mm)	260x280	320x280	400x280	600x280
A.C. Electrical Induction motor with gear box	3.0 H.P.,3ph, 440 VAC	5.0 H.P.,3ph 440VAC	7.5 H.P.,3ph, 440 VAC	10.0 H.P.,3ph, 440 VAC
Incoming electrical Supply	10A, 440 VAC 3ph. Hz.	25A, 440 VAC 3ph. Hz.	32A, 440 VAC 3ph. Hz.	63A, 440 VAC 3ph. Hz.
Overall Dimensions LxWxH (mm) approx.	1250x700x1700	1450x700x1700	1650x700x2000	1850x800x2100
Gross Weight of Machine (Kgs.) approx.	150 (Approx)	180 (Approx)	210 (Approx)	250 (Approx)

*\* Note : Development of product is a continuous process for better service offered to our esteemed customers. The specifications are subject to change without any prior notice.*



▲ ADH shredding machines are equipped with hardened stainless steel non corrosive shredding cutters.

**Multipurpose crocodile bite shredding technology**  
(Patent pending by our manufacturer)

**Extra accessories** : Automatic waste pusher mechanism for loading hopper, PLC controlled shredding mechanism, Waste transport containers. We also design, manufacture & supply custom – built shredding machine.



## PHARMACEUTICAL WASTE SHREDDING MACHINE



The Pharmaceutical waste shredding machine is used to destroy pharmaceutical waste such as aluminium / plastic blister packing, PE caps, discarded medicine bottles, vials, ampoules & plastic bottles for the proper disposal of waste.

Shredding is a process by which waste is de shaped or cut in to smaller pieces, so as to make the waste unrecognizable. It helps in prevention of reuse of pharmaceutical waste and also acts as an identifier that the waste is safe to dispose off.

Our products are research backed, cost effective shredding solution with a focus on shredding as a key factor in solid waste management. It shreds dry and wet waste.

An effective shredding mechanism of crocodile Bite method (patent pending) is used. The crocodile bite technology operates with 'V' shaped fixed cutter & multiple rotary shearing discs. The fixed cutter mounted at an angle is adjacent to rotary shearing discs to achieve better cutting. The material is grabbed between 'V' shaped rotary discs & fixed cutters shreds repeatedly. The over cut of rotary discs avoids coiling of material and jamming of rotary shaft.

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**Low Electrical Consumption** : It consumes less electricity than other shredder.



**Operator friendly** : The simple construction provides better operating environment.



**Less maintenance cost** : Fixed cutter can be reground several times reduces the cost of spares.



**Shock Loading** : In case of non shreddable material in cutting chamber, machine will stop automatically to avoid damages.

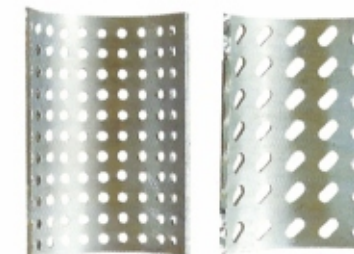


Easy removable trolley ▲  
of shredded waste.

Complete tilted hob  
for easy maintenance  
& cleaning. ▲



ADH shredding machine is a robust design with minimum maintenance requirement & minimum manual handling. The machine is properly designed and covered to avoid spillage and dust generation.



▲ Specially designed mesh.



▲ Shredded waste after shredding.

### Technical Specifications

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## Why ADH Needle & Syringe Destroyer only?

- ⌘ Portable table top unit.
- ⌘ Approved by various Govt. organizations
- ⌘ ABS Plastic body.
- ⌘ Tested as per safety standard for electrical appliances.
- ⌘ Hardened Steel Cutter
- ⌘ Pioneer manufacturer since year 2000.

## ELECTRICALLY OPERATED NEEDLE & SYRINGE DESTROYER

Destroy  
before get  
Destroyed

## ELECTRICALLY OPERATED NEEDLE & SYRINGE DESTROYER



### Three easy steps of using ADH Needle & Syringe Destroyer



▲ **STEP-1**  
Insert Needle  
immediately after  
administered &  
rotate in to hole.



▲ **STEP-2**  
Cut Syringe hub  
by pulling cutter



▲ **STEP-3**  
Dispose off  
waste collected  
in drawer

## NEEDLES !!!

**Needles!** They're indispensable tool for modern science. Yet with nearly a million accidental needle sticks a year, they're also daily risk to health care workers. Needle sticks may cause exposure to blood borne pathogens including but not limited to HIV & HBV

"Studies shows that, more than 20 % of those, who administer injections suffer "needle stick injuries"

World wide as per WHO report, 8 to 10 million Hepatitis - B, 2.3 to 4.7 million Hepatitis -C, and 80 to 160 thousand HIV are estimated to occur from the reuse of syringe & needles without sterilisation. Administering injections, drawing of blood, disposing off used needles, hospital staff's every day duties present plenty of chances for accidental needle stick injuries. Needles should be destroyed immediately after use, since, stick injury may occur at any stage after use.

ADH Electrically Operated Needle & Syringe Destroyer is a revolutionary method of destroying hypodermic needles for the safety of nurses, medical and hospital staff, juvenile diabetes, veterinary offices, clinics, dental labs and doctor's offices.

In an ongoing quest for AIDS, hepatitis and other infectious diseases prevention and medical waste management, an Electrically Operated Needle & Syringe Destroyer reduces the risk of needle stick injury, by instantly Electro-melting stainless steel hypodermic needles into their original harmless components of chromium oxide, nickel oxide, and ferrous oxide. The residue can be discarded in regular waste or recycled at the option of the facility.



Needle & Syringe destroyer unit dose not required any routine maintenance only to keep the unit clean and tidy all the time.

### PRODUCT SPECIFICATIONS

Model	: S1R (100 VA minimum)
Input Electrical Supply	: 1Ph, 230 VAC (+/- 10%), 50 Hz (+/-3%), 2 Amps (Min)
Enclosure	: ABS Plastic injection molded
Power Consumption	: 100 watts (Minimum) in continuous rating
Destruction Capacity	: Needles of size dia 0.4 mm to 1.6 mm
Syringe Cutter	: Hardened Stainless Steel Cutter
Collection Tray capacity	: Maximum 200 nos of cut syringe hubs & swarf of destroyed needles.
Overall Dimensions	: 230 (L)x 150(W) x 95(H) mm . Weight in Kgs: 2.0 Approx

Model	: S1R (60 VA minimum)
Input Electrical Supply	: 1Ph, 230 VAC (+/- 10%), 50 Hz (+/-3%), 2 Amps (Min)
Enclosure	: ABS Plastic injection molded
Power Consumption	: 60 watts (Minimum) in continuous rating
Destruction Capacity	: Needles of size dia 0.4 mm to 1.0 mm
Syringe Cutter	: Hardened Stainless Steel Cutter
Collection Tray capacity	: Maximum 200 nos of cut syringe hubs & swarf of destroyed needles.
Overall Dimensions	: 230 (L)x 150(W) x 95(H) mm . Weight in Kgs: 1.5 Approx

Our product is also available in 110 VAC, 60 Hz supply & with or without syringe cutter.





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