

# Plastics

Shredding and destroying plastic products and containers, protecting brand identity and eliminating fraudulent product use.

[www.ulstershredders.com](http://www.ulstershredders.com)



# Efficient Processing & Waste Management

Waste management is now an integral part of every organisation's core activities. Our role is to help each customer handle their processing and shredding needs efficiently and cost effectively, whether it be plastic, metal, tyres, documents or other onsite shredding requirements.

With over thirty years experience behind us, and a global customer base that ranges from SMEs and office centres to large scale industrial plants, we have an unparalleled breadth of experience in the field of advanced industrial shredders. This means that we can design, deliver and install full turnkey shredding solutions to handle practically any product, in any environment, worldwide.

Our success is based on our ability to evaluate specific situations and then deliver precise solutions. Our aim is to help customers achieve measurable bottom line improvements: savings in manpower costs through reduced material handling reduced transportation costs from moving compacted material improved corporate security, particularly with document disposal new revenue streams from sale of shredded waste.

Ulster Shredders' state of the art engineering facility in Northern Ireland houses several complete shredding lines. These allow our engineers to perform throughput and consistency testing by conducting trials, tests and demonstrations of our customers' materials under real production conditions.



## Shredding Plastics

Our shredders are the perfect choice for those involved in plastics processing and industrial recycling. They are designed to shred rigid plastic products and containers, permanently destroying them and protecting product identity. This eliminates the fraudulent use of products and saves money, time, labour and space.

Ulster Shredders are widely used by many industries, including cosmetic, pharmaceutical and electronic manufacturers, to reduce large pieces of plastic to small, manageable chunks. The output of our plastic shredders can be adjusted to create a specific, desired particle size, which can then be run through a granulator for further size reduction, if required.

Safety is paramount feature of all our products, and it is design engineered into each machine. This not only ensures that dust and noise are kept to a minimum, but that operator safety is maintained at all times.



## U-7 Shredder

The U-7 is the smallest model in our range, making it an ideal entry level machine for small businesses wishing to shred for recycling, destruction or volume reduction purposes. Its compact design means it can be easily located in confined spaces.

Using the low speed, high torque shredding principal to reduce knife and drive-component wear, as well as noise and dust, it can comfortably shred a variety of plastic items, including CDs/DVDs/video cassettes, plastic bottles and containers and PET drinks bottles.

### Key features:

- Up to 75% volume reduction
- Economical product waste recycling
- Self cleaning, counter rotational shafts for continuous shredding
- Flexible feed and discharge arrangements available
- Automatic reversing and overload protection system
- Basic and smart control system options
- Variety of knife and hook options to suit different products and shred size requirements

### Alternative applications:

Niche shredding applications such as:

- carpet trim
- tobacco
- small print-board packaging items
- light bushy machine tool swarf
- light steel press skeletons
- cans & glass bottles
- Stainless steel, food grade and pharmaceutical machines
- Hydraulically driven, integrated marine waste processing systems
- Air conveyed feed and discharged shredding systems

## U-15 Shredder

The high levels of torque from this robust 15KW/20hp unit mean that it can handle greater volumes of plastic items such as CDs/DVDs/video cassettes, plastic bottles and containers and PET drinks bottles than the U-7. In addition, its low speed/high torque combination means that the U-15 can shred heavier duty products such as some plastic utility piping, plastic extrusions, injection mouldings and rotational mouldings.

### Key features:

- Up to 75% volume reduction
- Economical product waste recycling
- Self cleaning, counter rotational shafts for continuous shredding

- Flexible feed and discharge arrangements available
- Automatic reversing and overload protection system
- Basic and smart control system options
- Variety of knife and hook options to suit different products and shred size requirements

### Alternative applications:

- Confidential document and media destruction
- Security destruction of production seconds and by-products
- Stainless steel, food grade and pharmaceutical machines
- Hydraulically driven, integrated marine waste processing systems
- Mobile on-site shredding
- Air or belt conveyed feed and discharged shredding systems

## U-45 Shredder

The large feed aperture of the U-45 allows it to accept bulky items and this, combined with its powerful 30kW drive, means that it has both the capacity and the torque to efficiently shred heavy duty, bulky plastic products. These include 1000 litre IBC plastic tanks, 200 litre drums, uPVC window and door frames plus panel mouldings.

### Key features:

- Up to 75% volume reduction
- Economical product waste recycling
- Self cleaning, counter rotational shafts for continuous shredding
- Flexible feed and discharge arrangements available
- Automatic reversing and overload protection system
- Basic and smart control system options
- Variety of knife and hook options to suit different products and shred size requirements

### Alternative applications:

- Confidential document and media destruction
- Security destruction of production seconds and by-products
- Stainless steel, food grade and pharmaceutical machines
- Hydraulically driven, integrated marine waste processing systems
- Mobile on-site shredding (also see U15/H shredder)
- Air or belt conveyed feed and discharged shredding systems

### U-7 General specifications



	Height	Width	Length	Weight
General Assy.	2115mm	1125mm	1460mm	700kg
Shredder	660mm	520mm	840mm	400kg
Drive Motor	450mm	315mm	300mm	50kg
Safety Stand*	1060mm	860mm	1460mm	240kg
Safety Hopper*	870mm	950mm	470mm	40kg
Control Panel	600mm	400mm	200mm	20kg

Cutting Chamber Size	430mm x 358mm
Distance between shaft centres	129mm
Size of shaft hexagon	41mm A/F
Maximum knife diameter	190mm
Maximum knife thickness	31mm
Maximum weight of knife	5kg

\* Can vary with turnkey systems to customer's requirement, and manufactured to CE Standard.

### U-15 General specifications



	Height	Width	Length	Weight
General Assy.	2400mm	1125mm	2180mm	1200kg
Shredder	550mm	750mm	2100mm	800kg
Drive Motor	550mm	475mm	1150mm	325kg
Safety Stand*	1175mm	875mm	2180mm	300kg
Safety Hopper*	920mm	950mm	765mm	70kg
Control Panel	600mm	600mm	200mm	30kg

Cutting Chamber Size	700mm x 345mm
Distance between shaft centres	132mm
Size of shaft hexagon	60mm A/F
Maximum knife diameter	175mm
Maximum knife thickness	31mm
Maximum weight of knife	5kg

\* Can vary with turnkey systems to customer's requirement, and manufactured to CE Standard.

### U-45 General specifications



	Height	Width	Length	Weight
General Assy.	2700mm	1460mm	2770mm	2100kg
Shredder	500mm	1000mm	2600mm	1500kg
Drive Motor	550mm	475mm	1150mm	325kg
Safety Stand*	1275mm	1270mm	2770mm	450kg
Safety Hopper*	1120mm	1200mm	1150mm	100kg
Control Panel	800mm	800mm	200mm	50kg

Cutting Chamber Size	1074mm x 524mm
Distance between shaft centres	192mm
Size of shaft hexagon	85mm A/F
Maximum knife diameter	260mm
Maximum knife thickness	31mm
Maximum weight of knife	8kg

\* Can vary with turnkey systems to customer's requirement, and manufactured to CE Standard.

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