

# X Series

## Heavy Duty Shredder

- Low speed, high torque gear drive
- Powerful two speed hydraulic swing type ram
- Heavy Duty design
- High throughput rates
- Suitable for very large and heavy parts Large
- diameter rotor (750 mm)



The shredders use concave ground square knives, producing high quality output. The cutters can be turned after a side is worn out.



All Virtus shredders are equipped with a large diameter flat rotor. The knives are fixed in special knife holders fitted in machined pockets. Optional weld on hard facing is available for abrasive applications.



The X Series shredders feature a high powered twin speed hydraulic system. This system ensures maximum pressure when feeding material into the rotor and high speeds on the backstroke.

### General Description

The X Series shredders are single shaft shredders with a powerful two speed swing ram design eliminating the risk of blocking and wearing out of internal guide rails. The machine is very versatile and can be used for shredding all kinds of input materials and is well suited for different industries. The 750 mm diameter rotors ranging from 1500 to 3000 mm width are driven by two oversized gearboxes. The low speed of 45 rpm guarantees a high torque and smooth operation. The hydraulic power pack is well integrated into the machine housing to save space and protect it from damage but still easy to access or remove for maintenance. The proven E rotor, knife holder and knife designs are taken to new dimensions to conquer the most demanding applications and challenges. The machines can be tailored to various applications with advanced controls and hydraulics, hard facing, and other wear options.

### Applications

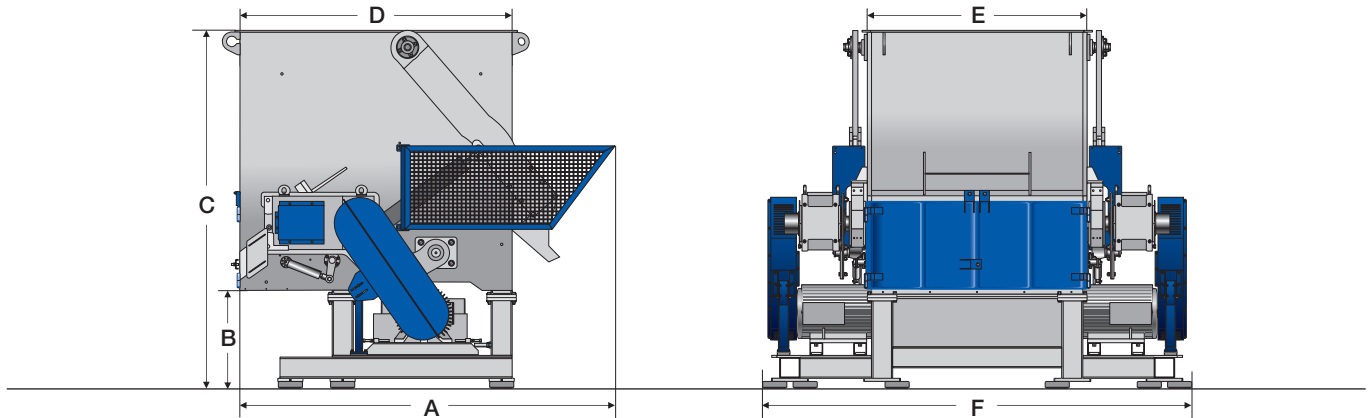
The X Series shredders have been designed for the most demanding and high throughput applications in recycling industries. The input materials can be all types of plastics, wood, paper, cardboard, e-waste, post consumer waste, rubber, etc. in various shapes and sizes. Typical input materials are: fridges, purges, tires, pallets, bales, drums, barrels, pipes, and film. The output material size is determined by the installed screen size and, except in some RDF (refuse derived fuels) and wood applications, the output material may need to be processed further to achieve the desired final size. For the recycling of complete truck and tractor tires the X T model is configured with special wear protection and knives.

**Virtus**

The Right Machine for  
Today's Recycling Requirements

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### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)  
 Rotor width (mm)  
 Rotor speed (rpm)  
 Drive capacity (kW)  
 Rotor knives (pcs)  
 Stator blades (rows)  
 Ram feeder drive (kW)  
 Screen size (mm)  
 Cutting chamber volume (m<sup>3</sup>)  
 Effective working area (mm)  
 Weight approx (kg)

#### 1500

750  
 1600  
 46  
 2 x 75  
 76  
 1  
 11  
 >60  
 7.75  
 1500 x 1490  
 17000

#### 2000

750  
 2000  
 46  
 2 x 90  
 96  
 1  
 11  
 >60  
 9.67  
 1500 x 1900  
 20200

#### 3000

750  
 2800  
 46  
 2 x 132  
 136  
 1  
 11  
 >60  
 13.5  
 1500 x 2600  
 27000

A (mm)

3750

3750

3750

B (mm)

935

935

1015

C (mm)

3420

3420

3500

D (mm)

2540

2540

2540

E (mm)

1620

2020

2820

F (mm)

3560

4190

5070

#### Virtus Equipment

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