



# virtus

Equipment

## Product Catalog

The Right Machine for Today's  
Recycling Requirements

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## Product Catalog

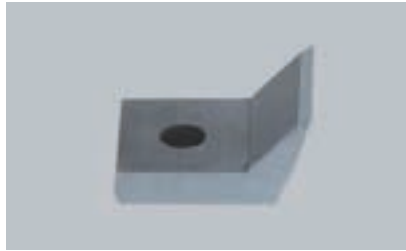
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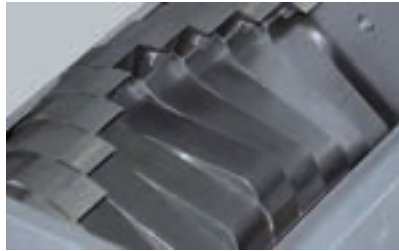
# A 18

## Beside the Press Granulator

- Direct driven staggered rotor
- Special knife design makes adjustment unnecessary
- Easy access for maintenance and cleaning
- Slow rotor speed creates less noise and dust Easily
- Customizable to suit different applications



The curvature of the specially profiled rotor knives ensures a constant cutting radius after re-sharpening thus maintaining the original cutting gap. Awkward knife adjustment is no longer necessary.



Staggered rotor blades create an individual blade cut thus increasing the cutting torque. All of the machines in this series are therefore suitable for grinding more solid materials and thicker walled sprues.



The Virtus Quick Snap System allows the lower front plate section to be easily removed for granulator cleaning. The lower front plate section is held in position by two sturdy lever clamps.

### General Description

The slow speed granulators in the A 18 range feature a staggered 180 mm diameter rotor with widths ranging from 180 to 430 mm. The rotor is directly driven by a geared motor. The low rotor speed reduces the noise level of the machine and creates less dust while grinding. The specially designed knives of the A series can be sharpened easily and do not need adjustment afterwards.

The material is fed via a sound absorbing feed hopper that can be tailored to fit various applications and feeding ways. Depending on the requirements, the machines can be fitted with a wide variety of hoppers, and they can be mounted on either low or high level base frames with matching suction bins or bag filling adapters. Quick snap fasteners and hand screws are used to access the machine making cleaning and maintenance fast and easy.

### Applications

The A slow speed granulators of the 18 series are mainly used in injection and blow molding processes as beside the press machines to grind runners and sprues. The resulting granules are then immediately reintroduced into the production process. The machines can be used for rejected products in the in-line recycling process as well.

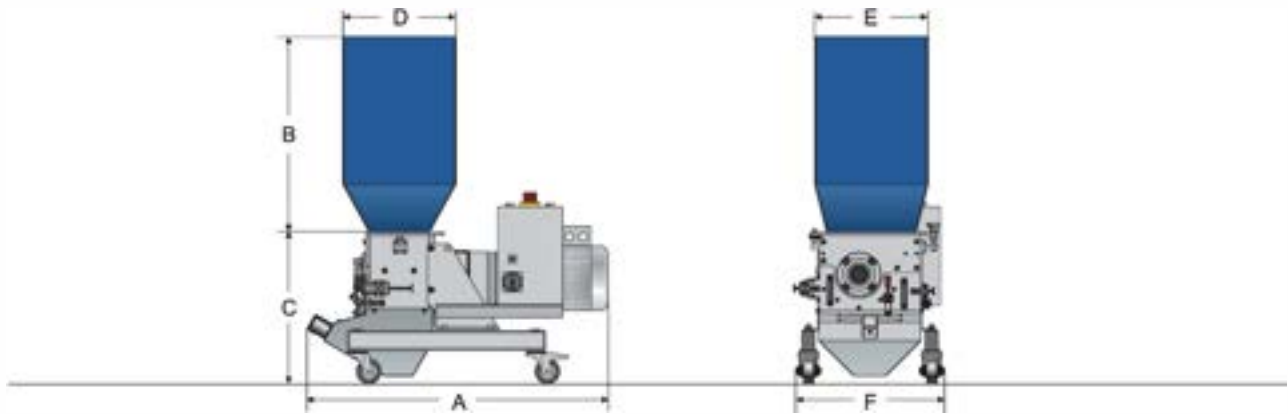
Different hopper and base frame designs make it possible to integrate the machine with most types of injection molding machines and robots.

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# A 18

## Beside the Press Granulator



### Technical Specifications and Dimensions

Model	180/180	180/300	180/430
Rotor diameter (mm)	180	180	180
Rotor width (mm)	180	300	430
Rotor speed (rpm)	150	150	150
Drive capacity (kW)	3	4	4
Rotor knives (pcs)	18	30	45
Stator blades (rows)	2	2	2
Screen size (mm)	>5	>5	>5
Weight approx (kg)	140	180	250
A (mm)	890	1100	1240
B (mm)	610	610	910
C (mm)	460	460	550
D (mm)	345	345	430
E (mm)	345	345	290
F (mm)	455	455	615

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# A 30

## Beside the Press Granulator

- Direct driven staggered rotor
- Special knife design makes adjustment unnecessary
- Easy access for maintenance and cleaning
- Slow rotor speed creates less noise and dust Easily
- Customizable to suit different applications



The curvature of the specially profiled rotor knives ensures a constant cutting radius after re-sharpening thus maintaining the original cutting gap. Awkward knife adjustment is no longer necessary.



Staggered rotor blades creates an individual blade cut thus increasing the cutting torque. All of the machines in this series are therefore suitable for grinding more solid materials and thicker walled sprues.



Due to the Quick snap fasteners used on the A Series 30, the machines can be opened for cleaning and maintenance quickly without the need for special tools.

### General Description

The slow speed granulators in the A 30 range feature a staggered 300 mm diameter rotor with widths ranging from 400 to 800 mm. The rotor is directly driven by a geared motor. The low rotor speed reduces the noise level of the machine and creates less dust while grinding. The specially designed knives of the A series can be sharpened easily and do not need adjustment afterwards. The material is fed via a sound absorbing feed hopper that can be tailored to fit various applications and feeding ways. Depending on the requirements, the machines can be fitted with a wide variety of hoppers, and they can be mounted on either low or high level base frames with matching suction bins or bag filling adapters. Quick snap fasteners and hand screws are used to access the machine making cleaning and maintenance fast and easy.

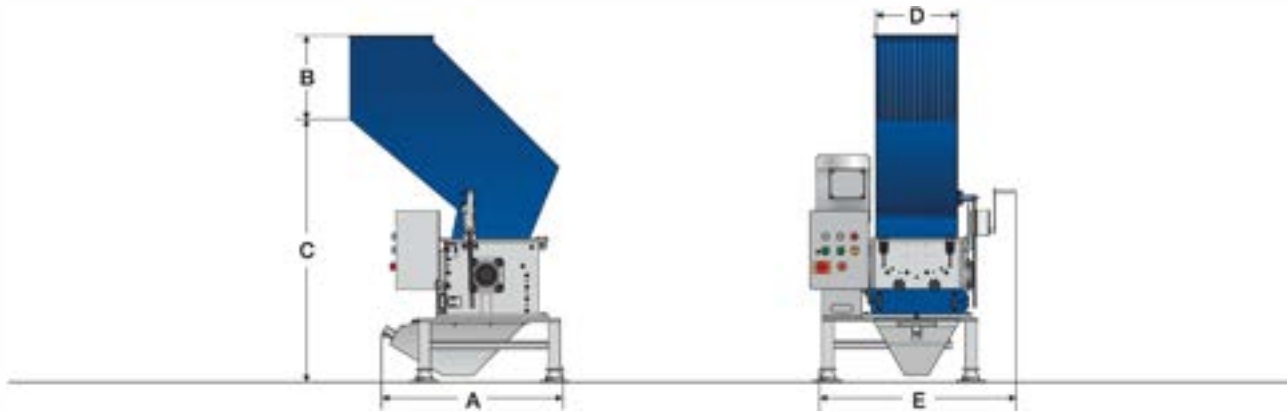
### Applications

The A slow speed granulators of the 30 series are mainly used in injection and blow molding processes as beside the press machines to grind runners and sprues. But they can be used as low noise central granulators for small throughput requirements as well. The stronger design of the A 30 series allow them to be used for stronger and thicker materials while offering the same advantages of low noise and dust as the smaller A Series machines. All A Series models can be equipped with a built in blower system in case a vacuum loading system is not available, or to transport the ground material to bags for storage.

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# A 30

Beside the Press Granulator



## Technical Specifications and Dimensions

Model	300/400	300/600	300/800
Rotor diameter (mm)	300	300	300
Rotor width (mm)	400	600	800
Rotor speed (rpm)	150	150	150
Drive capacity (kW)	7.5	11	18.5
Rotor knives (pcs)	33	48	66
Stator blades (rows)	2	2	2
Screen size (mm)	>5	>5	>5
Weight approx (kg)	550	950	1100
A (mm)	950	1125	820
B (mm)	400	400	400
C (mm)	1335	1335	1340
D (mm)	405	600	830
E (mm)	1035	1230	1635

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# E 30

## Economical Granulator

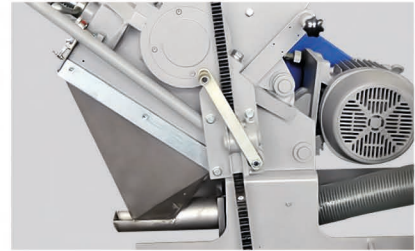
- Knives are adjusted outside of the machine
- Mobile Compact design
- Different rotor types available
- Easy accessibility
- Aggressive tangential infeed



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.



The E granulators are available with different rotor options to fit different applications, all rotors feature the V-cut technology creating a high quality regrind.



The user friendly design of the E series granulators allows quick and easy access to the cutting chamber for maintenance and cleaning.

### General Description

For the E 30 series different rotor designs are available in widths ranging from 300 mm to 1000 mm with a diameter of 300 mm. The completely welded cutting chamber in conjunction with the "V" type rotor design ensures dependability in operation and universal application use. The housing design offers easy and quick access to the cutting chamber during rotor and stator knife changes, servicing or screen changes.

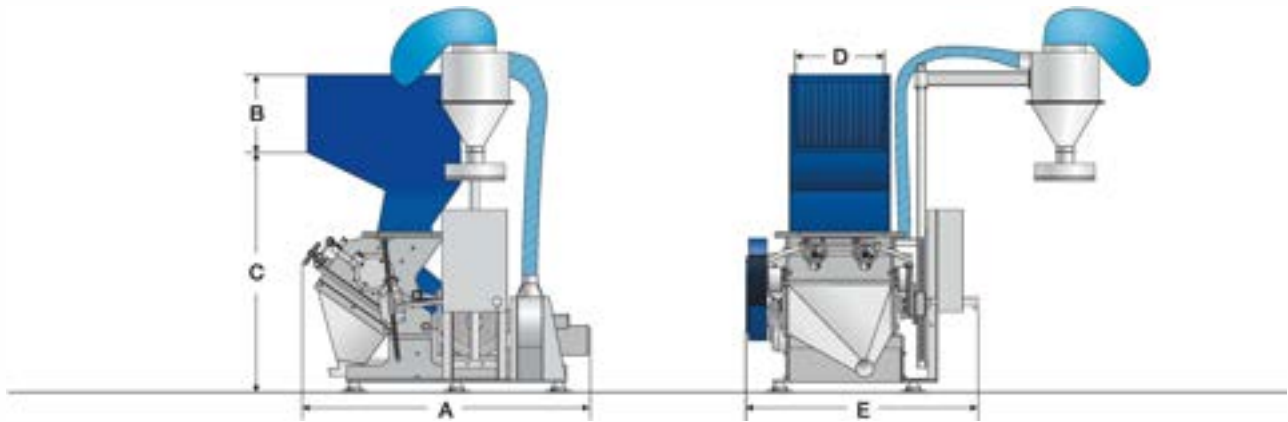
### Applications

The E series of machines are designed as economical granulators for use in house recycling. The cutting geometry of the E 30 series makes it ideal for the grinding of small thin walled hollow parts. The complete E granulator line achieves a high quality regrind independent of the material type or form such as injection molded parts, blow molded parts, profiles, sheets, film, etc.

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# E 30

## Economical Granulator



### Technical Specifications and Dimensions

Model	300/300	300/600	300/1000
Rotor diameter (mm)	300	300	300
Rotor width (mm)	300	600	1000
Drive capacity (kW)	7.5	11	18.5
Rotor knives (rows)	3	3	3
Stator blades (rows)	2	2	2
Screen size (mm)	>6	>6	>6
Effective working area (mm)	400 x 290	400 x 590	400 x 990
Weight approx (kg)	900	1000	1350
A (mm)	1760	1810	1370
B (mm)	460	460	460
C (mm)	1420	1420	1420
D (mm)	300	590	990
E (mm)	1085	1350	1540

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# E 50

## Economical Granulator

- Knives are adjusted outside of the machine
- Mobile Compact design
- Different rotor types available
- Easy accessibility
- Aggressive tangential infeed



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.



The E granulators are available with different rotor options to fit different applications. All rotors feature the V-cut technology creating a high quality regrind.



The user friendly design of the E series granulators allows quick and easy access to the cutting chamber for maintenance and cleaning.

### General Description

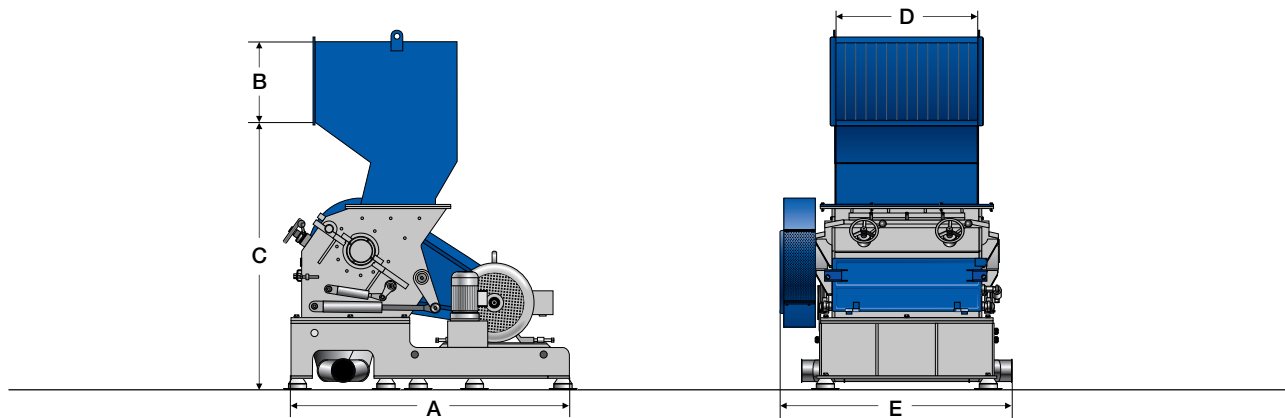
For the E 50 series different rotor designs are available in widths ranging from 500 mm to 1400 mm with a diameter of 500 mm. The completely welded cutting chamber in conjunction with the "V" type rotor design ensures dependability in operation and universal application use. The housing design offers easy and quick access to the cutting chamber during rotor and stator knife changes, servicing, or screen changes.

### Applications

The E series of machines are designed as economical granulators for use in medium volume in-house recycling applications. The cutting geometry of the E 50 series allows even bigger hollow parts to be ground. The whole E granulator line achieves a high quality regrind independent of the material type or form such as injection molded parts, blow molded parts, profiles, sheets, film, etc.

# E 50

## Economical Granulator



### Technical Specifications and Dimensions

Model	500/500	500/700	500/1000	500/1400
Rotor diameter (mm)	500	500	500	500
Rotor width (mm)	500	700	1000	1400
Drive capacity (kW)	30	37	45	45
Rotor knives (rows)	3 or 5	3 or 5	3 or 5	3 or 5
Stator blades (rows)	2 or 3	2 or 3	2 or 3	2 or 3
Screen size (mm)	>6	>6	>6	>6
Effective working area (mm)	500 x 500	500 x 700	500 x 990	500 x 1400
Weight approx (kg)	1500	1750	3100	3900
A (mm)	1675	1675	1900	1900
B (mm)	580	580	580	580
C (mm)	1840	1840	1840	1840
D (mm)	515	715	985	1430
E (mm)	1130	1330	1645	2120

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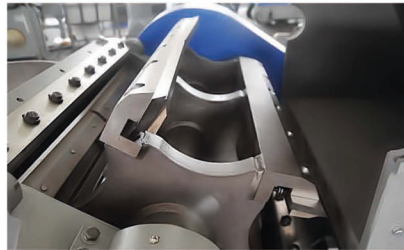
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# E 70

## Economical Granulator

- Knives are adjusted outside of the machine
- Mobile Compact design
- Different rotor types available
- Easy accessibility
- Aggressive tangential infeed



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.

The E granulators are available with different rotor options to fit different applications, all rotors feature the V-cut technology creating a high quality regrind.

The redesigned base of the E 70 series makes the machine very sturdy, while maintaining easy accessibility for maintenance and cleaning.

### General Description

For the E 70 series different rotor designs are available in widths ranging from 700 mm to 1400 mm with a diameter of 700 mm. The completely welded cutting chamber, in conjunction with the "V" type rotor design, ensures dependability in operation and universal application use. The housing design offers easy and quick access to the cutting chamber during rotor and stator knife changes, servicing, or screen changes.

### Applications

The E series of machines are designed as economical granulators for use as a central granulator for in-house recycling. The cutting geometry of the E 70 series allows even voluminous materials to be ground. The complete E series line achieves a high quality regrind independent of the material type or form such as injection molded parts, blow molded parts, profiles, sheets, film, etc.

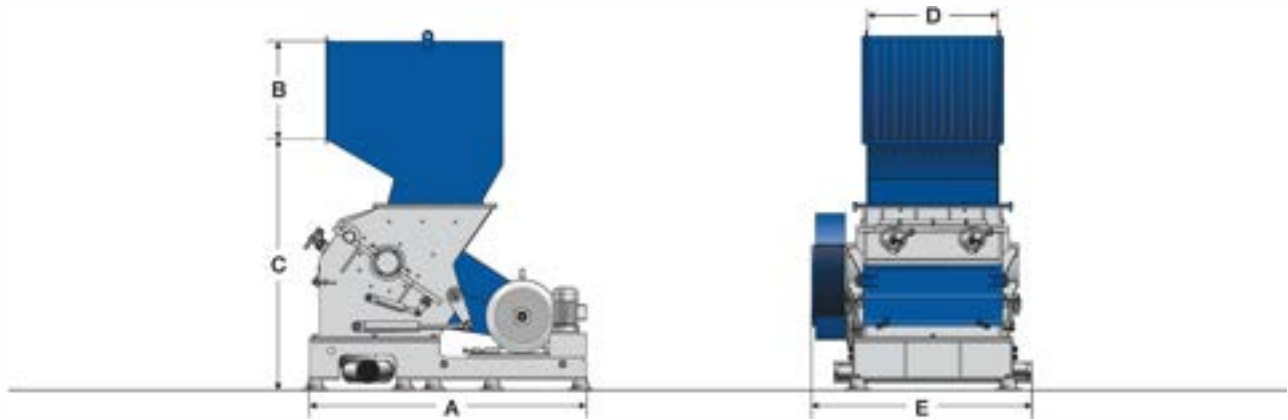
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# E 70

## Economical Granulator



### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)

Rotor width (mm)

Drive capacity (kW)

Rotor knives (rows)

Stator blades (rows)

Screen size (mm)

Effective working area (mm)

Weight approx (kg)

#### 700/700

700

700

45

5 or 7

2 or 3

>6

720 x 700

2840

#### 700/1000

700

1000

55

5 or 7

2 or 3

>6

720 x 990

3530

#### 700/1400

700

1400

55

5 or 7

2 or 3

>6

720 x 1400

4500

A (mm)

2050

2050

2050

B (mm)

780

780

780

C (mm)

2040

2040

2040

D (mm)

715

985

1430

E (mm)

1400

1670

2120

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# C 30

## Compact Soundproofed Granulator

- Knives are adjusted outside of the machine
- Compact design
- Different rotor types available
- Soundproofed housing
- Aggressive tangential infeed



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.



The C Series granulators are available with different rotor options to fit different applications, all rotors feature the V-cut technology creating a high quality regrind.



To minimize the needed floor space and make the machine easy to move, machine controls and electrical cabinet are integrated into the machines soundproof housing.

### General Description

The C 30 compact/sound proof granulators are designed with a complete sound proof enclosure resulting in an extremely quiet operation. Different rotor designs are available in widths ranging from 300 mm to 1000 mm with a diameter of 300 mm. The completely welded cutting chamber in conjunction with the "V" type rotor design ensures dependability in operation and universal application use. While it delivers excellent sound proofing capabilities, it still offers easy and quick access to the cutting chamber during rotor and stator knife changes, servicing or screen changes. The sound dampening material used in these machines is based on the latest technological research.

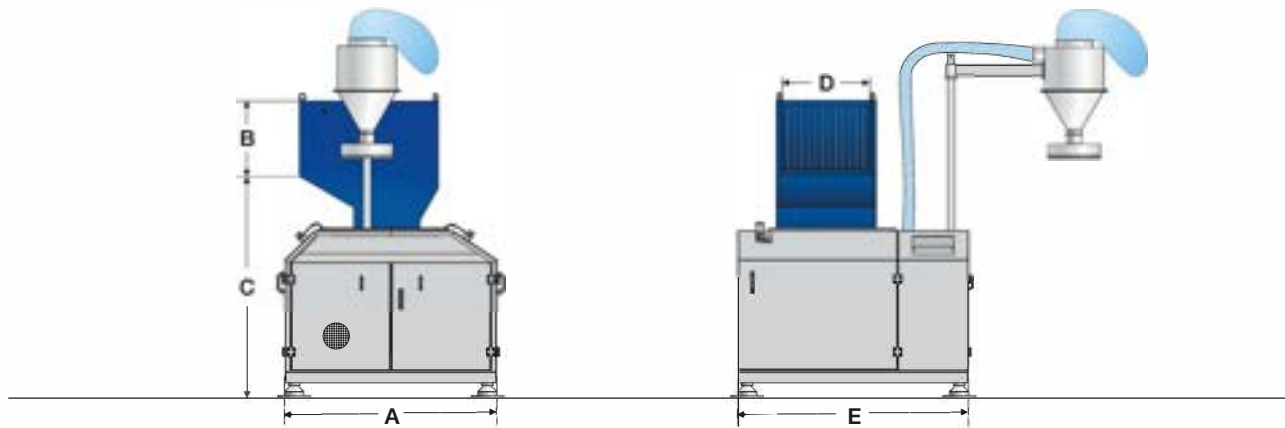
### Applications

The cutting geometry of the C series allows even voluminous materials to be ground. The complete C series line achieves a high quality regrind independent of the material type or form such as injection molded parts, blow molded parts, profiles, sheets, film, etc. The 30 series C machines are mainly used in in-line operations for processing of rejected products, or runners and sprues. The small footprint and easy movability make the machines very easy to place in existing operations.

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# C 30

## Compact Soundproofed Granulator



### Technical Specifications and Dimensions

Model	300/300	300/600	300/1000
Rotor diameter (mm)	300	300	300
Rotor width (mm)	300	600	1000
Drive capacity (kW)	7.5	11	18.5
Rotor knives (rows)	3	3	3
Stator blades (rows)	2	2	2
Screen size (mm)	>6	>6	>6
Effective working area (mm)	400 x 290	400 x 590	400 x 990
Weight approx (kg)	1200	1400	1850
A (mm)	1550	1550	1550
B (mm)	420	420	420
C (mm)	1570	1570	1570
D (mm)	300	590	990
E (mm)	1300	1600	1900

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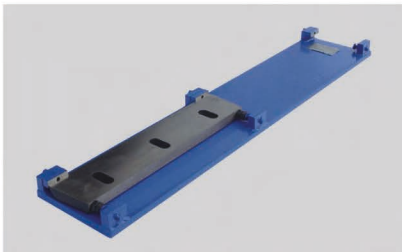
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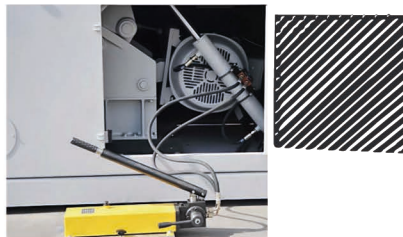
# C 50

## Compact Soundproofed Granulator

- Knives are adjusted outside of the machine
- Compact design
- Different rotor types available
- Soundproofed housing
- Aggressive tangential infeed



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.



To ensure a safe operation and quick and easy access for cleaning and maintenance the C 50 machines cutting chamber is opened hydraulically.



To minimize needed floor space and make the machine easy to move, the control cabinet is integrated into the machines soundproof housing.

### General Description

The C compact/sound proof granulators are designed with a complete sound proof enclosure resulting in an extremely quiet operation. Different rotor designs are available in widths ranging from 500 mm to 1400 mm with a diameter of 500 mm. The completely welded cutting chamber, in conjunction with the "V" type rotor design, ensures dependability in operation and universal application use. While it delivers excellent sound proofing capabilities, it still offers easy and quick access to the cutting chamber during rotor and stator knife changes, servicing or screen changes. The sound dampening material used in these machines is based on the latest technological research.

### Applications

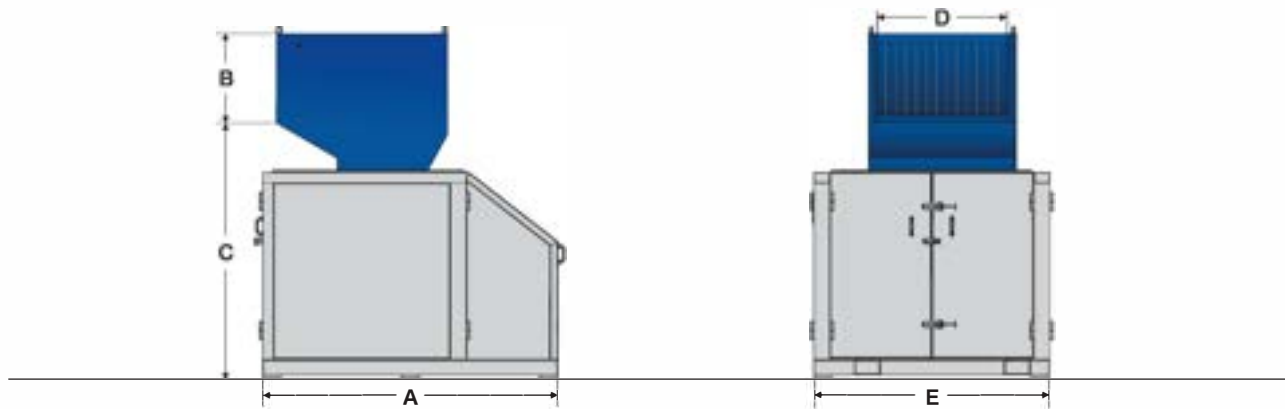
The cutting geometry of the C series allows even voluminous materials to be ground. The complete C series line achieves a high quality regrind independent of the material type or form such as injection molded parts, blow molded parts, profiles, sheets, film, etc. The 50 series C machines are mainly used in inline operations or small central granulators for processing of medium sized hollow thin walled products, or runners and sprues. The integrated sound proofing makes it possible to easily place the machine in existing operations. With different rotor designs and a wide variety of options, the machines can be tailored for many different applications.

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# C 50

## Compact Soundproofed Granulator



### Technical Specifications and Dimensions

Model	500/500	500/700	500/1000	500/1400
Rotor diameter (mm)	500	500	500	500
Rotor width (mm)	500	700	1000	1400
Drive capacity (kW)	30	37	45	45
Rotor knives (rows)	3 or 5	3 or 5	3 or 5	3 or 5
Stator blades (rows)	2 or 3	2 or 3	2 or 3	2 or 3
Screen size (mm)	>6	>6	>6	>6
Effective working area (mm)	560 x 500	560 x 700	560 x 990	560 x 1400
Weight approx (kg)	2200	2500	3000	5500
A (mm)	1930	1930	2160	2160
B (mm)	580	580	580	580
C (mm)	1870	1870	1930	1930
D (mm)	515	715	985	1430
E (mm)	1550	1750	2100	2600

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# C 70

## Compact Soundproofed Granulator

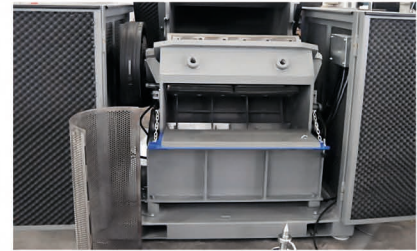
- Knives are adjusted outside of the machine
- Compact design
- Different rotor types available
- Soundproofed housing
- Aggressive tangential infeed



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.



In order to keep the C 70 series as compact as possible, motor and hydraulic opening system are integrated into the sound dampening enclosure of the machine.



The user friendly design of the C 70 series granulators allows quick and easy access to the cutting chamber for maintenance and cleaning.

### General Description

The C 70 compact/sound proof granulators are designed with a complete sound proof enclosure resulting in an extremely quiet operation. Different rotor designs are available in widths ranging from 700 mm to 1400 mm with a diameter of 700 mm. The completely welded cutting chamber in conjunction with the "V" type rotor design ensures dependability in operation and universal application use. While it delivers excellent sound proofing capabilities, it still offers easy and quick access to the cutting chamber during rotor and stator knife changes, servicing or screen changes. The sound dampening material used in these machines is based on the latest technological research.

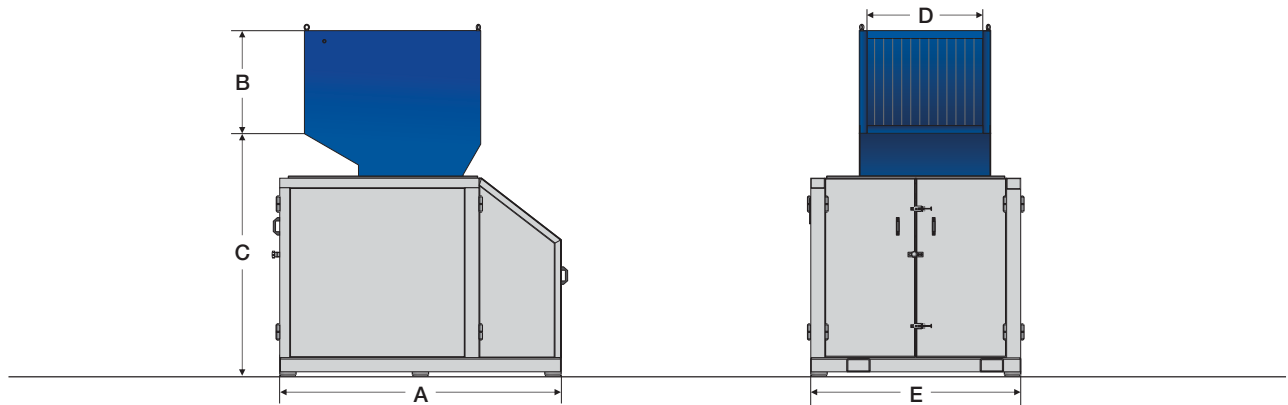
### Applications

The cutting geometry of the C 70 series allows even voluminous materials to be ground. The complete C 70 series line achieves a high quality regrind independent of the material type or form such as injection molded parts, blow molded parts, profiles, sheets, film, etc. The 70 series C machines are mainly used as central granulators for processing of large injected or blow molded products as well as film. The integrated sound proofing makes it possible to easily place the machine in existing operations. With different rotor designs and a wide variety of options the machines can be tailored for many different applications.

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# C 70

## Compact Soundproofed Granulator



### Technical Specifications and Dimensions

Model	700/700	700/1000	700/1400
Rotor diameter (mm)	700	700	700
Rotor width (mm)	700	1000	1400
Drive capacity (kW)	45	55	55
Rotor knives (rows)	5 or 7	5 or 7	5 or 7
Stator blades (rows)	2 or 3	2 or 3	2 or 3
Screen size (mm)	>6	>6	>6
Effective working area (mm)	720 x 700	720 x 990	720 x 1400
Weight approx (kg)	4200	5100	6200
A (mm)	2260	2260	2260
B (mm)	780	780	780
C (mm)	2240	2240	2240
D (mm)	715	915	1430
E (mm)	1830	2100	2600

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# C 25-40

## Tangential

### Compact granulator

- Compact design
- Soundproofed chamber and hopper
- Aggressive infeed and curved backwall
- Large screen area
- Knives are adjusted outside the machine



The C 25-40 granulators are designed for the inline recycling of voluminous parts such as bottles and canisters in blowmolding applications.



The tangential cutting chamber paired with the aggressive open rotor design ensures reliable ingestion of voluminous parts. The curved cutting chamber backwall reduces the risk of parts getting stuck.



The cutting chamber sits in a soundproofed enclosure to ensure quiet inline operation. The rotor and screen area are easily accessible for cleaning and maintenance without the need for additional tools.

### General Description

All machines in the C series feature a compact soundproofed enclosure and sound dampening hoppers. The granulators are available in two rotor diameters, 250 and 400 mm with widths ranging from 00 to 1000 mm. While the smaller machines feature an open F rotor, the bigger machines rely on a heavier S rotor. The curved backwall of the cutting chamber ensures an aggressive ingestion while also avoiding blockages. The rigid design makes them dependable units and includes advanced standard features such as replaceable wear plates. As on all Virtus granulators the rotor and stator knives are adjusted outside of the machine to reduce downtime for maintenance.

### Applications

The compact inline granulators of the C series are primarily designed for use in blow molding applications to recycle voluminous parts such as bottles, canisters, crates, as well as blow molding flush and injection sprues. The low feeding height makes them suitable for both hand and conveyor feeding of these parts. The low noise level and small footprint makes them the perfect fit for inline recycling operations.

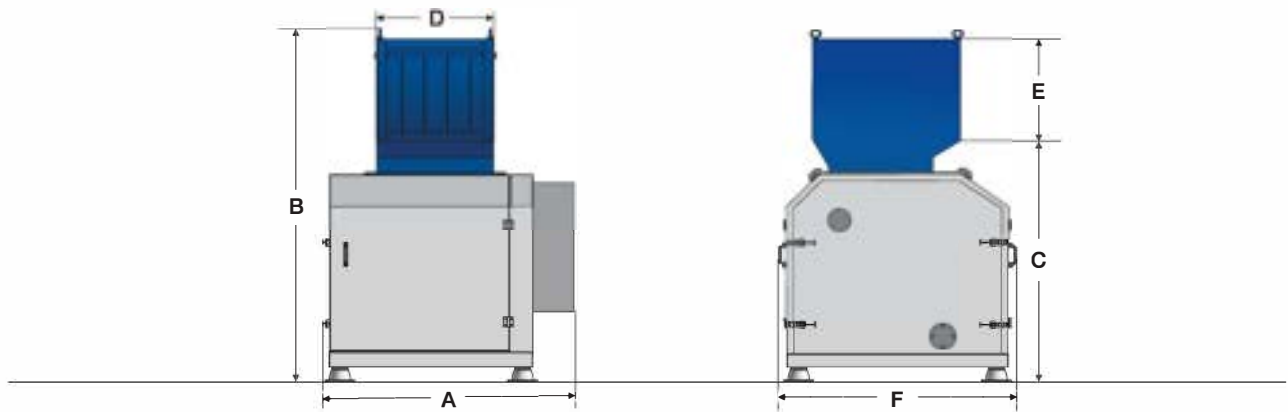
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# C 25-40

## Tangential

### Compact Granulator



#### Technical Specifications and Dimensions

Model	250/600	400/600	400/1000
Rotor diameter (mm)	250	400	400
Rotor width (mm)	600	600	1000
Drive capacity (kW)	18.5	22	30
Rotor knives (rows)	3 x 2	3 x 2	3 x 2
Stator blades (rows)	2	2	2
Screen size (mm)	≥6	≥6	≥6
Effective working area (mm)	250 x 600	400 x 600	400 x 1000
Weight approx (kg)	1850	3300	3300
A (mm)	1750	1550	1950
B (mm)	1880	2180	2180
C (mm)	1380	1540	1540
D (mm)	600	590	990
E (mm)	370	490	490
F (mm)	1220	1460	1460

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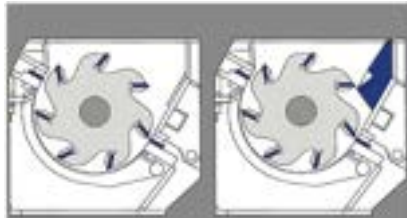
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# H 35-50

## Heavy Duty Granulator

- Knives are adjusted outside of the machine
- Specially developed deflector wedge
- Wide choice of rotors
- Well thought out housing design
- Strong Welded Steel construction
- Oversized outboard bearings



The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.

The H granulators are available with different rotor options to fit different applications, all rotors feature the V-cut technology creating a high quality regrind.

The heavy duty bearings are separated from the cutting chamber to avoid lubricants entering the cutting chamber and bearing failure due to material contamination in the bearings.

### General Description

The heavy duty granulators of the H 35 and 50 series offer a wide array of different rotor designs with widths ranging from 500 mm to 1000 mm with a diameter of 350 and 500 mm respectively. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications. Rotor bearings, knife mounts and rotor shaft are oversized. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade, acting as a deflector wedge, allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily replaceable wear plates in the cutting chamber, as well as outboard bearings reducing the risk of contamination.

### Applications

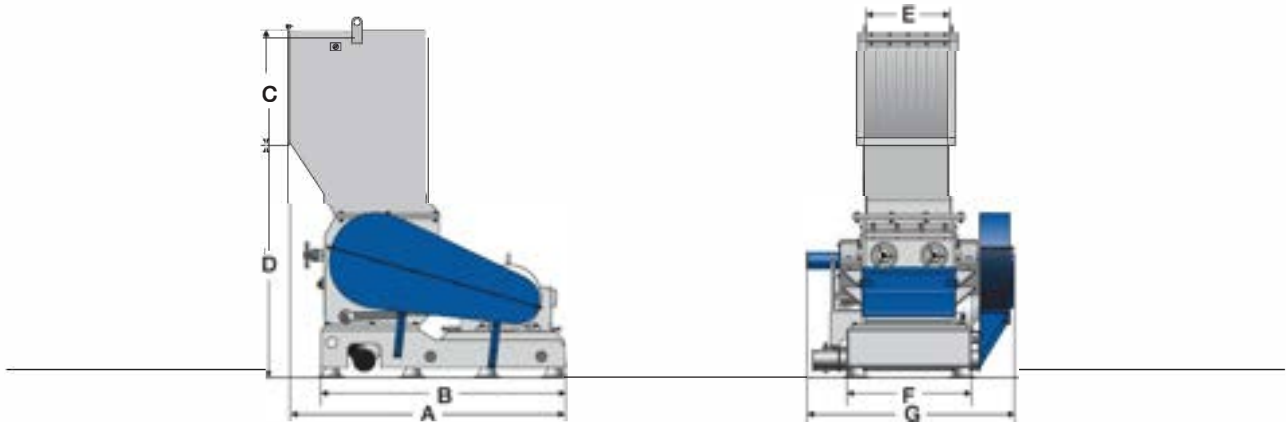
The wide range of rotors and hopper styles allow the H machines to be tailored to almost every application in the plastic recycling field. The H 35 and 50 granulators are mainly used as central granulators for in house recycling applications. They process thick walled parts in one step or as a second step granulator, after a shredder, to reach higher throughput rates. When used to grind light materials, such as bottles, the throughput can be greatly increased with the addition of a Virtus force feeding device. For abrasive, contaminated or highly filled materials, the machines can be equipped with special wear protections, such as hard facing of the rotor and housing, and key parts manufactured from highly wear resistant steels.

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# H 35-50

## Heavy Duty Granulator



### Technical Specifications and Dimensions

Model	350/500	500/600	500/1000
Rotor diameter (mm)	350	500	500
Rotor width (mm)	500	600	1000
Drive capacity (kW)	22	55	75
Rotor knives (rows)	3 or 5	3 or 5	3 or 5
Stator blades (rows)	2 or 3	2 or 3	2 or 3
Screen size (mm)	>6	>6	>6
Effective working area (mm)	460 x 516	636 x 590	985 x 590
Weight approx (kg)	1800	3100	4200
A (mm)	1820	2130	2320
B (mm)	1620	2020	2220
C (mm)	740	800	900
D (mm)	1610	1765	1870
E (mm)	515	635	985
F (mm)	775	1090	1540
G (mm)	1290	1570	1915

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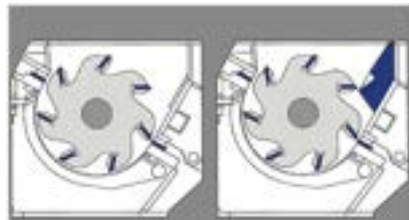
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# H 60-70

## Heavy Duty Granulator

- Knives are adjusted outside of the machine
- Specially developed deflector wedge
- Wide choice of rotors
- Well thought out housing design
- Strong Welded Steel construction
- Oversized outboard bearings



The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.



The H granulators are available with different rotor options to fit different applications, all rotors feature the V-cut technology creating a high quality regrind.



The heavy duty bearings are separated from the cutting chamber to avoid lubricants entering the cutting chamber and bearing failure due to material contamination in the bearings.

### General Description

The heavy duty granulators of the H 60 and 70 series offer a wide array of different rotor designs with widths ranging from 800 mm to 1000 mm with a diameter of 600 and 700 mm. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications. Rotor bearings, knife mounts, and rotor shaft are oversized. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade acts as a deflector wedge and allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily replaceable wear plates in the cutting chamber, as well as outboard bearings reducing the risk of contamination.

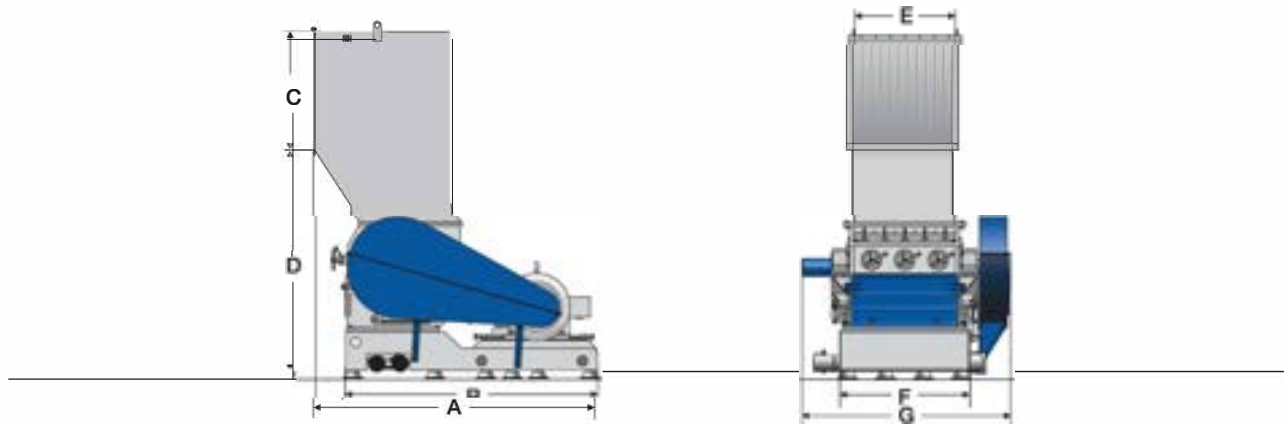
### Applications

The wide range of rotors and hopper styles allow the H machines to be tailored to almost every application in the plastic recycling field. The H 60 and 70 granulators are mainly used as large central granulators for in house recycling applications. They process large thick walled parts in one step or as a second step granulator after a shredder to reach higher throughput rates. When used to grind light materials, such as bottles, the throughput can be greatly increased with the addition of a Virtus force feeding device. For abrasive, contaminated, or highly filled materials, the machines can be equipped with special wear protections, such as hard facing of the rotor and housing, or key parts manufactured from highly wear resistant steels.

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# H 60-70

## Heavy Duty Granulator



### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)

Rotor width (mm)

Drive capacity (kW)

Rotor knives (rows)

Stator blades (rows)

Screen size (mm)

Effective working area (mm)

Weight approx (kg)

A (mm)

B (mm)

C (mm)

D (mm)

E (mm)

F (mm)

G (mm)

#### 600/800

600

800

75

5 or 7

2 or 3

>6

790 x 695

4500

2350

2220

1000

1940

788

1270

1820

#### 600/1600

600

1600

132

5 or 7

2 or 3

>6

1500 x

695

2535

2390

1000

1940

1560

1980

2360

#### 700/1000

700

1000

90

5 or 7 or 9

2 or 3

>8

900 x 800

7100

2830

2550

1100

2250

985

1290

2060

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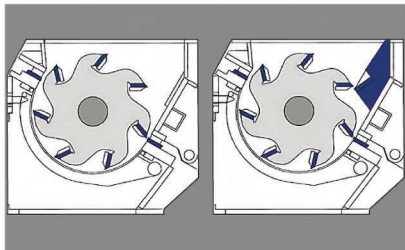
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# H 80

## Heavy Duty Granulator

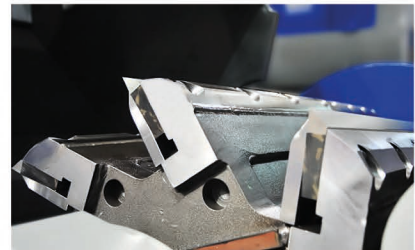
- Knives are adjusted outside of the machine
- Specially developed deflector wedge
- Wide choice of rotors
- Well thought out housing design
- Strong Welded Steel construction
- Oversized outboard bearings



The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.



The H granulators are available with different rotor options to fit different applications, all rotors feature the V-cut technology creating a high quality regrind.



For abrasive applications the H granulators can be equipped with rotors with key parts manufactured from highly wear resistant steel as well as weld on hard facing.

### General Description

The heavy duty granulators of the H 80 series offer a wide array of different rotor designs with widths ranging from 1200 mm to 2000 mm with a diameter of 800 mm. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications. Rotor bearings, knife mounts, and rotor shaft are oversized. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade acts as a deflector wedge and allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily replaceable wear plates in the cutting chamber as well as outboard bearings reducing the risk of contamination.

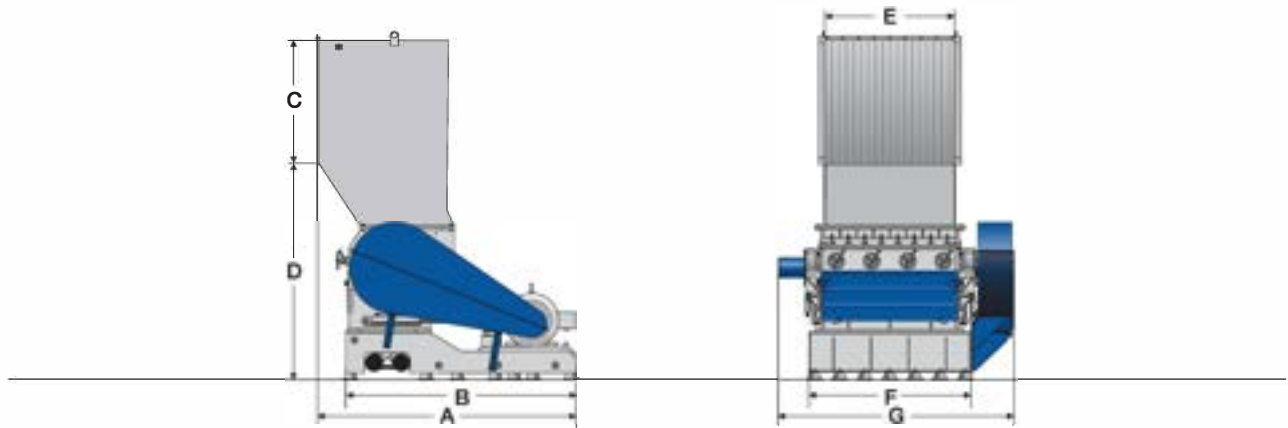
### Applications

The wide range of rotors and hopper styles allow the H machines to be tailored to almost every application in the plastic recycling field, mainly with high throughput requirements. The H 80 series can be used to grind large thick walled parts down to a granule in one step, or be used as a second step granulator after a X shredder to reach very high throughput rates. When used to grind light materials, such as bottles, the throughput can be greatly increased with the addition of a Virtus force feeding device. For abrasive, contaminated, or highly filled materials, the machines can be equipped with special wear protections, such as hard facing of the rotor and housing, and key parts manufactured from highly wear resistant steels.

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# H 80

## Heavy Duty Granulator



### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)  
 Rotor width (mm)  
 Drive capacity (kW)  
 Rotor knives (rows)  
 Stator blades (rows)  
 Screen size (mm)  
 Effective working area (mm)  
 Weight approx (kg)

#### 800/1200

800  
 1200  
 132  
 5 or 7 or 9  
 2 or 3  
 >8  
 1150 x 915  
 10400

#### 800/1600

800  
 1600  
 160  
 5 or 7 or 9  
 2 or 3  
 >8  
 1570 x 915  
 12500

#### 800/2000

800  
 2000  
 2 x 160  
 7 or 9  
 2 or 3  
 >8  
 1960 x 915  
 13500

A (mm)  
 B (mm)  
 C (mm)  
 D (mm)  
 E (mm)  
 F (mm)  
 G (mm)

3100  
 2885  
 1200  
 2250  
 1150  
 1535  
 2400

3175  
 2800  
 1400  
 2600  
 1570  
 1970  
 2860

2755  
 2600  
 1600  
 3055  
 1965  
 2250  
 3465

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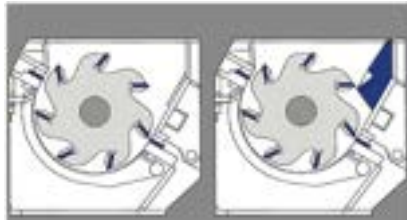
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# H 110

## Heavy Duty Granulator

- Knives are adjusted outside of the machine
- Specially developed deflector wedge
- Wide choice of rotors
- Well thought out housing design
- Strong Welded Steel construction
- Oversized outboard bearings



The easily removable deflector wedge acts as a third stator blade and can be used to adjust the aggressiveness of the rotor at the first cutting point.



The granulators can be tailored to fit various applications, for example with oversized suction troughs in order to achieve a very high output.



The H 110 series comes standard with wide H-style rotors available with 9, 11 or 13 rows of rotor blades ensuring a high quality output.

### General Description

The heavy duty granulators of the H 110 series offer different rotor configurations with widths ranging from 1200 mm to 2400 mm with a diameter of 1100 mm. The completely welded heavy steel construction is designed to withstand the most demanding and universal applications. Rotor bearings, knife mounts, and the rotor shaft are oversized. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. The removable third stator blade is acting as a deflector wedge and allows the machine to be quickly adjusted to different application scenarios. Other standard features include easily replaceable wear plates in the cutting chamber as well as outboard bearings reducing the risk of contamination.

### Applications

The H 110 series of heavy duty granulators is a dependable machine engineered for demanding high throughput applications. The H 110 series can be used to grind large thick walled parts down to a granule in one step, or be used as a second step granulator after a X shredder to reach very high throughput rates. The large diameter rotors are available with a choice of 9, 11 or 13 rows of rotor knives. The V-cut design ensures a high quality granule with a low percentage of fines. For abrasive, contaminated, or highly filled materials, the machines can be equipped with special wear protections, such as hard facing of the rotor and housing, and key parts manufactured from highly wear resistant steels.

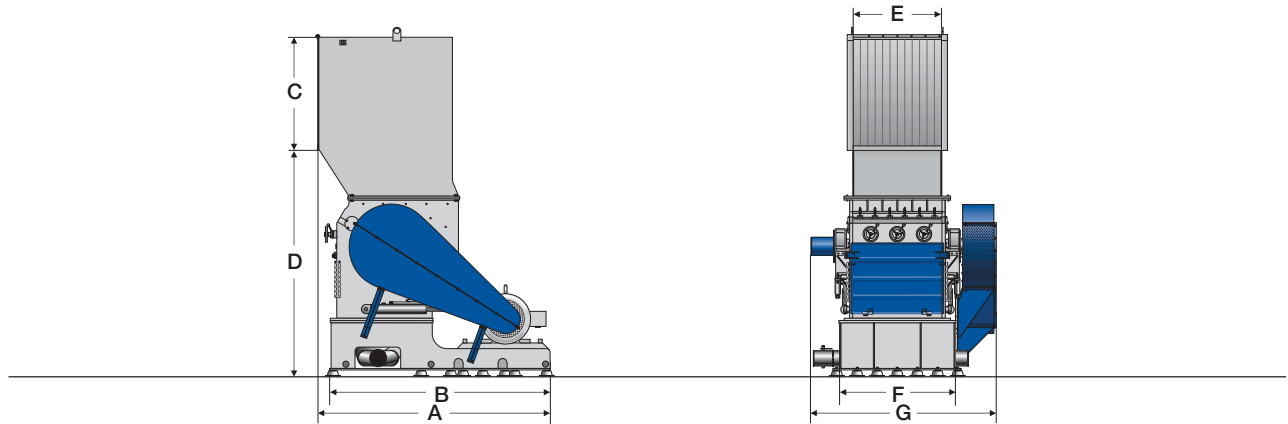
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# H 110

## Heavy Duty Granulator



### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)

Rotor width (mm)

Drive capacity (kW)

Rotor knives (rows)

Stator blades (rows)

Screen size (mm)

Effective working area (mm)

Weight approx (kg)

A (mm)

B (mm)

C (mm)

D (mm)

E (mm)

F (mm)

G (mm)

#### 1100/1200

1100

1200

200

7 or 9 or 11

2 or 3

>8

1150 x 1210

14000

3115

3010

1400

3030

1150

1680

2440

#### 1100/2400

1100

2400

2 x 200

7 or 9 or 11

2 or 3

>8

1960 x 1210

22000

3060

3000

1400

3030

2300

2760

3830

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# P Series

## Pipe/Profile Granulator

- Knives are adjusted outside of the machine
- Specially developed deflector wedge
- Wide choice of rotors
- Well thought out housing design
- Strong Welded Steel construction
- Oversized outboard bearings



Rotor and stator knives are pre-set outside the machine prior to installation in a supplied fixture. This makes awkward adjustment inside the machine unnecessary.



The specially angled rotor automatically pulls the fed pipes or profiles into the cutting chamber, this design also regulates the amount of material.



The heavy duty bearings are separated from the cutting chamber to avoid lubricants entering the cutting chamber, and bearing failure due to material contamination.

### General Description

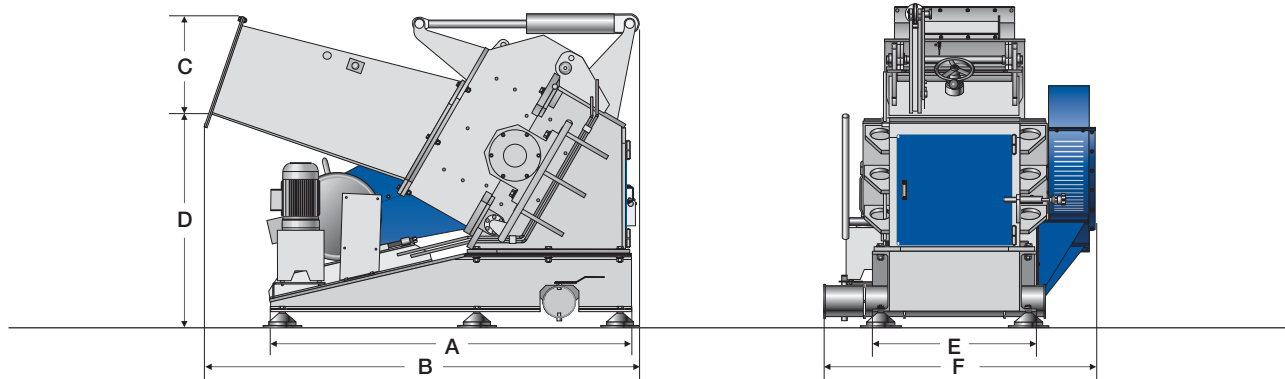
The Pipe and Profile Granulators of the P series are available in rotor widths of up to 1400mm and diameters ranging from 560 to 700 mm. The completely welded heavy steel cutting chamber is angled and fitted with an extended hopper to allow easy feeding of parts. The standard V-cut creates a high quality regrind with a very low percentage of fines in the output material. Other standard features include a hydraulically opened hopper for outboard bearings reducing the risk of contamination.

### Applications

Conventional granulators have substantial problems handling long pipes and profiles. To feed large and bulky parts in most cases cavities or platforms are needed. Therefore, Virtus developed the P range. Thanks to the almost level feeding hopper, long pieces can be fed easily. While the machine is operating there is no risk of blocking. In case of congestion, no more material will be accepted by the machine until the grinding chamber is empty, then the machine will accept material again, and work continues.

# P Series

## Pipe/profile Granulator



### Technical Specifications and Dimensions

Model	600/500	560/700	560/1000	700/1400
Rotor diameter (mm)	600	560	560	700
Rotor width (mm)	500	700	1000	1400
Drive capacity (kW)	45	55	75	90
Rotor knives (rows)	5	5	5	5
Stator blades (rows)	2	2	2	2
Screen size (mm)	>8	>8	>8	>8
Effective working area (mm)	440 x 530	290 x 740	290 x 1010	320 x 1440
Weight approx (kg)	4000	5000	6400	9000
A (mm)	1940	2290	2290	2420
B (mm)	2245	2400	2450	2580
C (mm)	440	220	220	300
D (mm)	1040	1250	1250	1255
E (mm)	940	1170	1380	1840
F (mm)	1350	1785	2060	2400

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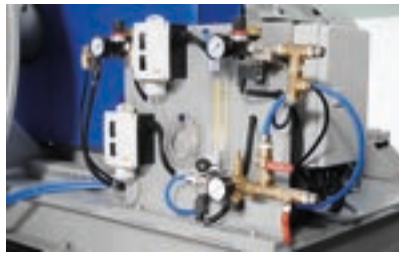
# PM

## High Speed Precision Pulverizer

- Simple adjustment of cutting gap
- Choice of discs or segments
- Low drive power - High throughput
- Innovative efficient design
- Wide range of accessories
- Easy temperature control



The Virtus PM Pulverizers can be equipped with either one piece or segmented grinding discs. Both are made from high quality tool steel and can be treated to withstand wear longer.



The material temperature is monitored in the process, and an automated cooling system will ensure the temperature is kept at a defined level.



The material is fed into the Pulverizer by a vibrating dosing channel, and the feeding rate is automatically adjusted based on the motors amperage and material temperature.

### General Description

The disc pulverizers of the PM series are available with disc diameter from 300 to 800 mm. These pulverizers are high speed, precision grinders for the processing of medium hard, impact resistant and friable materials. The material to be pulverized is introduced through the center of a vertically fixed grinding disc which is mounted concentrically with an identical high speed rotating disc. Centrifugal force carries the material through the grinding area and the resulting powder is collected with a blower and cyclone system. Depending on the application, the machines can be equipped with one piece grinding discs or grinding segments.

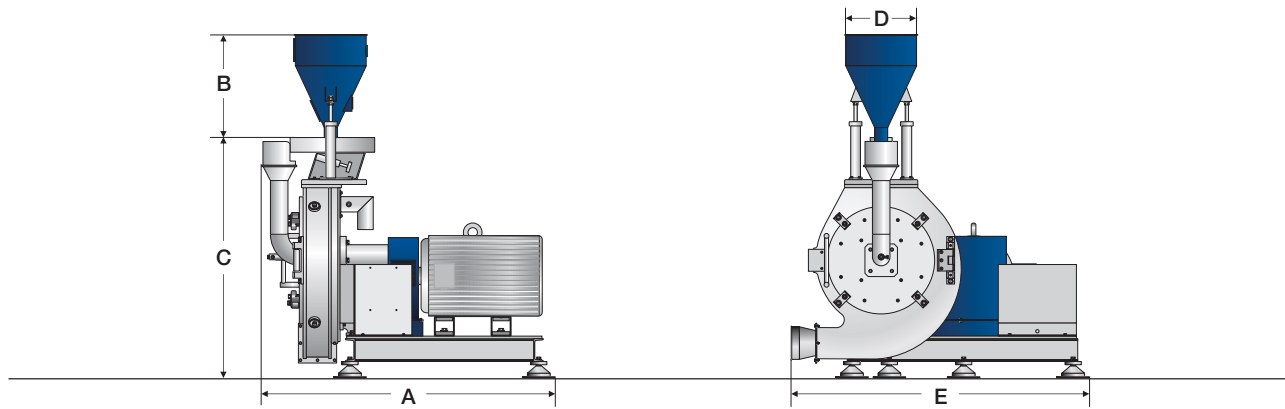
### Applications

One of the main fields of use for the Virtus PM Pulverizers is the pulverization of PVC regrind in pipe and profile recycling. Working in line with a shredder and granulator creates a balanced and efficient system to handle in house production waste. Another application is the grinding of PE for Rotomolding applications. Here the PM Pulverizer is used in the production process to create the powder needed in the process. In this process, a screening machine is necessary to ensure the right output size, distribution, and flow properties of the ground material.

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# PM

## High Speed Precision Pulverizer



### Technical Specifications and Dimensions

Model	300	500	800
Discs diameter (mm)	300	500	800
Drive capacity (kW)	22	55	90
Weight approx (kg)	900	1800	2500
Throughput approx (kg/h)	50-500	100-1000	200-1500
A (mm)	1365	1800	2085
B (mm)	640	640	640
C (mm)	1190	1470	1800
D (mm)	435	435	435
E (mm)	1515	1680	1840

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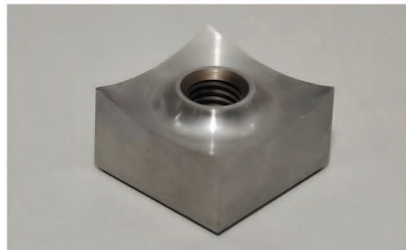
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# L 30

## Affordable Shredder For Lumps & Purgings

- Affordable solution for small lumps
- Simple upgrade for existing granulation system
- Easy to move and place
- tangential infeed avoids the need for a hydraulic pusher
- Small footprint
- Low energy consumption



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 our E-style flat rotor. The knives are fixed in special knife holders fitted in machined pockets.



The L30 shredders feature an aggressive tangential infeed for easy feeding without the need for a hydraulic system. Lumps of up to 400 mm diameter can be processed easily in this machine series.

### General Description

The L series shredders are single shaft shredders with tangential infeed thus eliminating the need for a hydraulic feeding system. The compact and maneuverable design combined with the 'plug and play' controls give this machine total flexibility and ease of use. Like the bigger brothers in the G,V, and X series, the L are equipped with outboard bearings, 310 mm diameter flat E rotors with 600 mm or 850 mm width, driven by an oversized geared motor, and incorporate the proven Virtus knife holder and knife design. The user friendly design allows for simple and efficient cleaning and maintenance. The low rotor speed of 60 rpm combined with the compact design of the L shredders, makes it possible to shred lumps at a relatively low noise level. The machines can be fed manually or by conveyor. Material discharge can be done via conveyor or into a drop box.

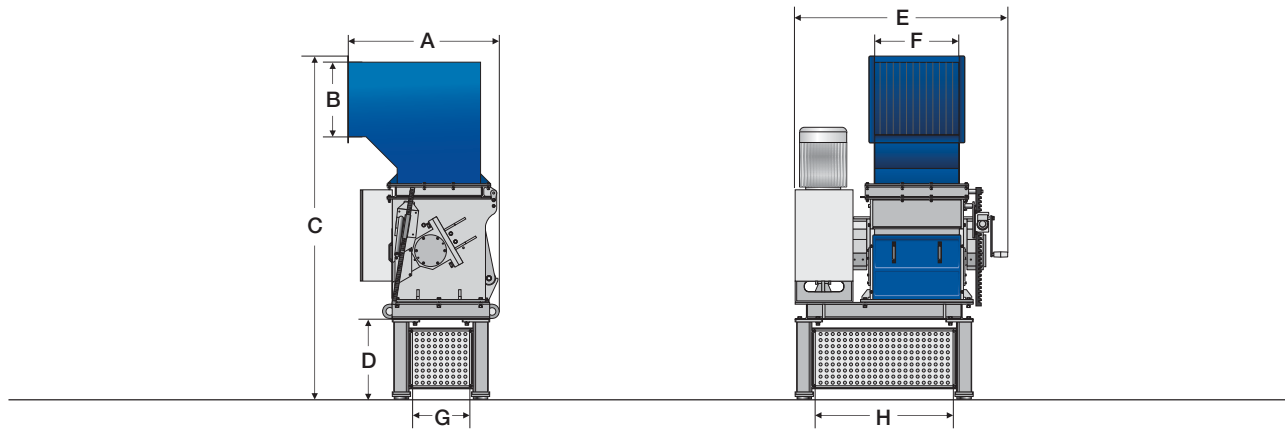
### Applications

The L shredders have been designed for in house recycling of small lumps and purges from injection and blow molding processes. The typical input materials are small and medium sized cakes such as head waste. The material can be shred to reduce the volume or processed further in a granulator to be reintroduced into the production process immediately. The machine also can be used to destroy sensitive products or to recycle small batches of low volume products to avoid contamination of the main product line.

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# L 30

Affordable Shredder For Lumps & Purgings



## Technical Specifications and Dimensions

### Model

Rotor diameter (mm)  
Rotor width (mm)  
Rotor speed (rpm)  
Drive capacity (kW)  
Rotor knives (pcs)  
Stator blades (rows)  
Screen size (mm)  
Effective working area (mm)  
Weight approx (kg)

### 600

310  
560  
61  
11  
26  
1  
>16  
490 x 550  
1400

### 850

310  
840  
61  
18.5  
40  
1  
>16  
490 x 830  
1500

A (mm)  
B (mm)  
C (mm)  
D (mm)  
E (mm)  
F (mm)  
G (mm)  
H (mm)

995  
490  
2255  
525  
1400  
550  
420  
950

1045  
490  
2255  
525  
2080  
830  
470  
1200

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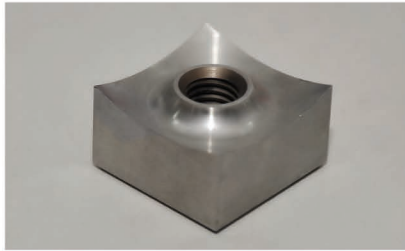
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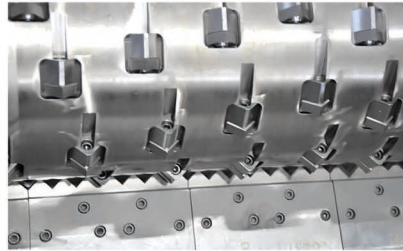
# G Series

## General Purpose Shredder

- Low speed, high torque geared drive
- Powerful hydraulic swing type pusher (ram)
- Proven well engineered design
- Smaller footprint compared to traditional horizontal pusher style shredders Bolt-in drive shafts
- Multiple rotor designs and materials
- Two speed hydraulic system as standard



The shredders use concave 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 G series shredders benefit from sturdy ram construction incorporating heavy duty guide bearings and universal couplings for reliable operation.

### General Description

The G 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 of all kinds of input materials and is well suited for different industries. The 457 mm diameter rotors ranging from 850mm to 2000 mm width are driven by either one or two oversized gearboxes. The hydraulic power pack is well integrated into the machine housing to save space and protect it from damage but is still easy to access or remove for maintenance. The standard E rotor features the proven Virtus knife and knife holder design, as well as outboard bearings and a hydraulically operated screen cradle. The machines can be tailored to various applications and is offered with rotor cooling, hard facing, and other wear options.

### Applications

The G shredders have been designed for a wide range of applications and industries such as in-house and general recycling, electronic waste, and post consumer waste handling. Input materials can be all types and forms of plastics such as lumps, pipes, film, bales, woven bags; electronic waste like cables and ICBs, paper, wood and other organic materials. Depending on downstream requirements, the shredded material, with size defined by the fitted screen size, can be used directly or can pass to the next stage of size reduction, for example a G granulator.

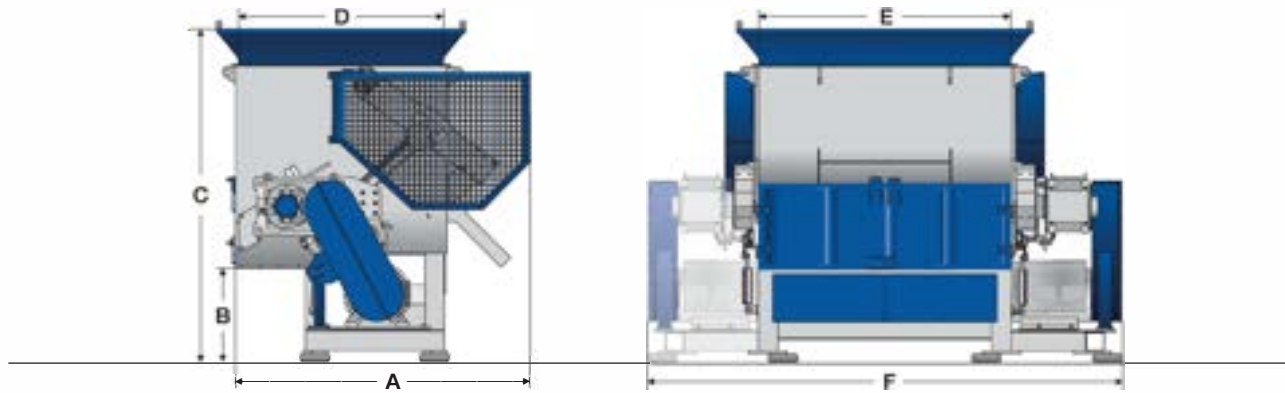
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# G Series

## General Purpose Shredder



### Technical Specifications and Dimensions

Model	850+	1200	1500	2000
Rotor diameter (mm)	457	457	457	457
Rotor width (mm)	850	1130	1410	1970
Rotor speed (rpm)	74	74	74	74
Drive capacity (kW)	55	55	75	2 x 55
Rotor knives (pcs)	40/60	54/81	68/102	96/144
Stator blades (rows)	1 or 2	1 or 2	1 or 2	1 or 2
Ram feeder drive (kW)	3.75	5.6	5.6	5.6
Screen size (mm)	>40	>40	>40	>40
Cutting chamber volume (m <sup>3</sup> )	1.37	1.82	2.27	3.16
Effective working area (mm)	800 x 730	800 x 1010	800 x 1290	800 x 1850
Weight approx (kg)	4800	5500	6500	8500
A (mm)	2300	2300	2300	2300
B (mm)	725	725	725	725
C (mm)	2600	2600	2600	2600
D (mm)	1590	1590	1590	1590
E (mm)	840	1120	1400	1960
F (mm)	1985	2265	2590	3710

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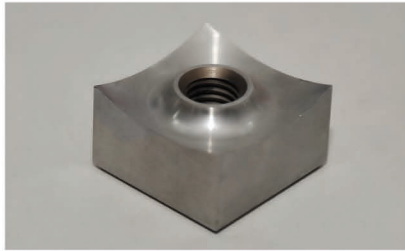
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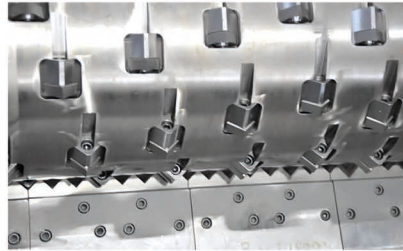
# V Series

## Shredder For Voluminous Parts

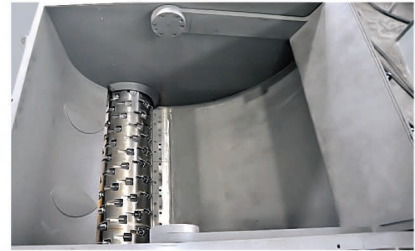
- 35% more internal volume compared to the G series
- Internal hydraulic pusher (ram)
- Variable speed, faster pusher movement
- Smaller footprint compared to traditional horizontal pusher style
- Shredders enclosed cutting chamber to avoid material spillage
- All advantages of the conventional G series



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 internal ram design on the V series allows the cutting chamber volume to be increased while keeping a small footprint. Making the V Shredder ideal for shredding of big volume parts.

### General Description

The V series shredders are single shaft shredders with a large internal volume. The redesigned hydraulic pusher system creates approx 35% more space in the cutting chamber while increasing the power and speed of the ram itself. The machines are equipped with a 457 mm diameter Virtus E rotor with widths ranging from 1200mm to 2000 mm. As on the G Series machines, the rotor is driven via an oversized gearbox. The completely enclosed welded steel housing increases the stability and avoids material spillage. The V Shredder incorporates all the traditional advantages of the Virtus knife and knife holder design as well as standard features such as outboard bearings, hydraulic screen cradle, easy maintainability and advanced controls.

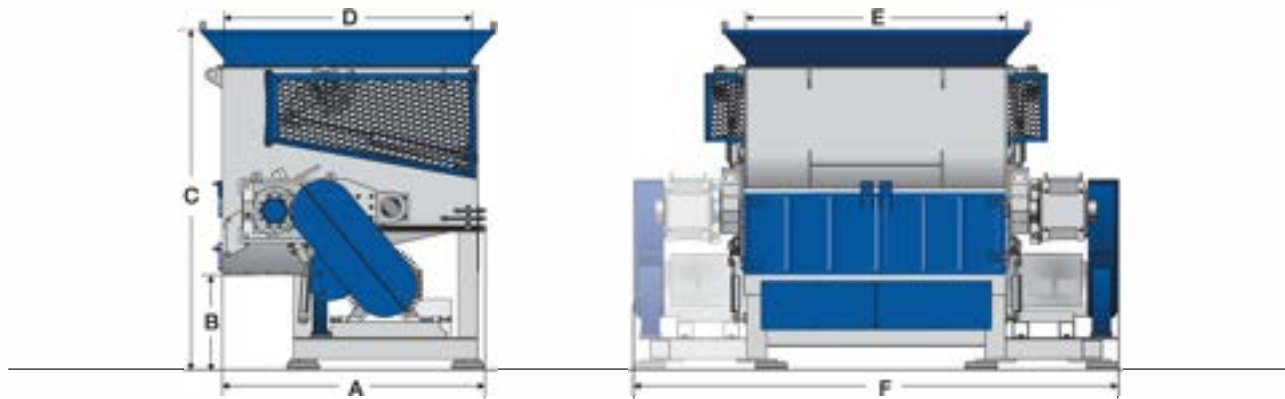
### Applications

The V shredders have been designed to handle voluminous parts such as IBCs, wheelie bins, pallets, large drums, etc., but also retain the versatility and flexibility to be used for general recycling in the plastic and wood industry. As with all Virtus shredders, the V range can be equipped with a wear package for the processing of highly abrasive, filled materials.

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# V Series

Shredder For Voluminous Parts



## 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)

### 1200

457  
 1130  
 74  
 55  
 54/81  
 1  
 5.6  
 >40  
 2.15  
 1400 x 1010  
 5000

### 1500

457  
 1410  
 74  
 75  
 68/102  
 1  
 5.6  
 >40  
 2.7  
 1400 x 1290  
 6400

### 2000

457  
 1970  
 74  
 2 x 55  
 96/144  
 1  
 5.6  
 >40  
 3.75  
 1400 x 1850  
 8800

A (mm)

2070

2070

2070

B (mm)

725

725

725

C (mm)

2600

2600

2600

D (mm)

1880

1880

1880

E (mm)

1140

1420

1980

F (mm)

2320

2635

3710

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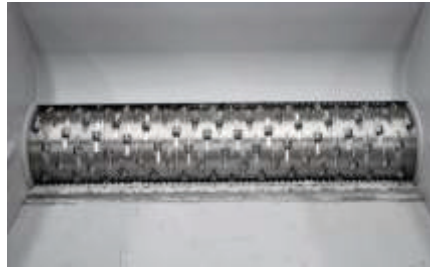
# VHS

## Horizontal Shredders

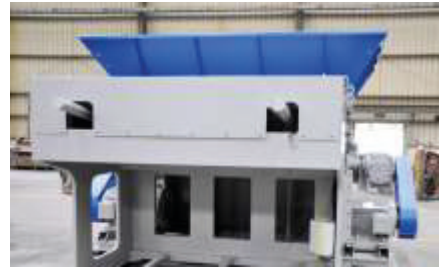
- Large feeding hopper
- Robust welded steel construction
- Low speed operation
- Advanced rotor / knife mounting system



The large feeding hopper allows the machine to be used for a variety of materials.



The rotors are equipped with square knives, producing high quality output. The cutters can be turned after they are worn.



Angled hydraulic pusher to ensure optimal material feeding and ingestion.

### General Description

Virtus VHS shredders are single shaft shredders featuring an angled hydraulic ram suitable for a wide range of material shapes and sizes. The VHS shredders are equipped with a Virtus E style rotor and knife holder fixing system. The final size of the material is determined by the screen which can easily be changed based on requirements. The VHS shredder can be tailored to individual requirements, this includes different drive powers, knife configurations as well as discharge options.

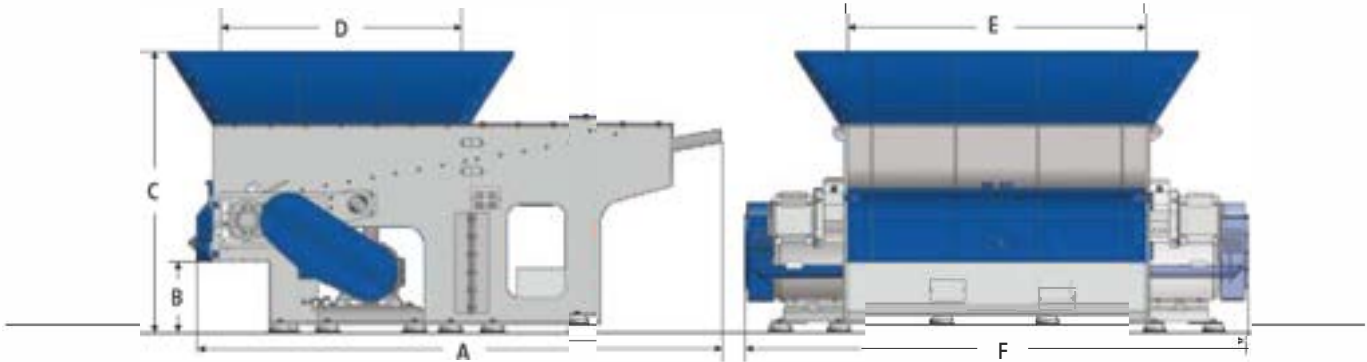
### Applications

The VHS series of single shaft shredders are mainly used in the industry to achieve a economic recycling of plastics to wood, paper, and general waste streams. The machines have been engineered for strength and reliability in daily operation. These shredders can easily be integrated into complete lines with other Virtus products and accessories such as belts, granulators, etc.

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# VHS

## Horizontal Shredders



### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)  
 Rotor width (mm)  
 Rotor speed (rpm)  
 Drive capacity (kW)  
 Rotor knives(pcs) (34 x 34)  
 Rotor knives (pcs) (50 x 50)  
 Stator blades (pcs)  
 Ram feeder drive (kW)  
 Cutting chamber volume (m<sup>3</sup>)  
 Effective working area (mm)

#### 1500

600  
 1400  
 approx. 70  
 90/110  
 68/102  
 57/76  
 5  
 5.6  
 1.4  
 1320 x 1340

#### 2000

600  
 1960  
 approx. 70  
 110  
 96/144  
 81/108  
 7  
 5.6  
 2  
 1880 x 1500

#### 2600

600  
 2520  
 approx. 70  
 2 x 90  
 124/186  
 105/140  
 9  
 5.6  
 2.6  
 2440 x 1500

A (mm)  
 B (mm)  
 C (mm)  
 D (mm)  
 E (mm)  
 F (mm)

4420  
 696  
 2706  
 2036  
 1420  
 2630

4648  
 696  
 2726  
 2200  
 1980  
 3868

4648  
 696  
 2726  
 2200  
 2540  
 4424

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# X Series

## Heavy duty shredders

- 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 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.

### 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 and barrels, pipes, film etc... 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.

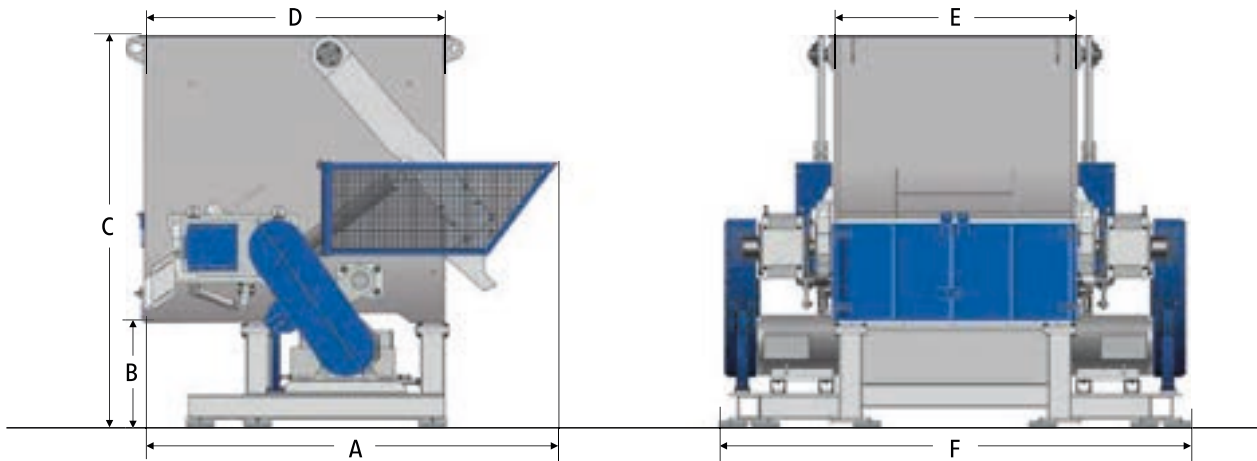
### General Description

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 of all kinds of input materials and is well suited for different industries. The 750 mm diameter rotors ranging from 1600 to 2800 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.

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### Technical Specifications

Type	1500	2000	3000
Rotor diameter (mm)	750	750	750
Rotor width (mm)	1500	2000	3000
Rotor speed (rpm)	46	46	46
Drive capacity (kW)	2 x 75	2 x 90	2 x 132
Rotor knives (pcs)	76	96	136
Stator blades (rows)	1	1	1
Ram feeder drive (kW)	11	11	11
Screen size (mm)	> 60	> 60	> 60
Cutting chamber volume (m <sup>3</sup> )	7.75	9.67	13.5
Effective working area (mm)	1500 x 1440	1500 x 1840	1500 x 2640
Weight approx. (kg)	17500	20000	25000

### Dimensions

Type	1500	2000	3000
A (mm)	3580	3580	3580
B (mm)	935	935	1015
C (mm)	3420	3420	3670
D (mm)	2540	2540	2540
E (mm)	1620	2020	2820
F (mm)	3560	4100	5070

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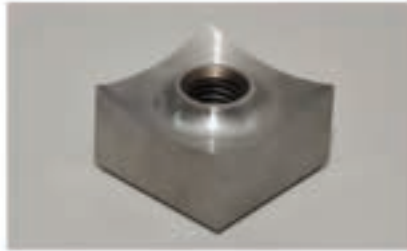
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# P Series

## Pipe/profile Shredder

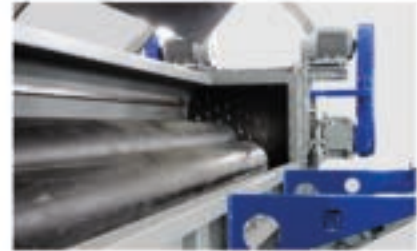
- No pre cutting of pipe lengths necessary
- Process pipes up to 1200 mm diameter
- Automatic control giving virtually risk free operation
- Elimination of amperage peaks
- High throughput rates
- Allows feeding of bundles or nested pipes and profiles
- Large diameter rotor (up to 1500 mm)



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



The P shredders use very large diameter flat E-style rotors. The knives are fixed in special knife holders fitted in machined pockets.



The P pipe shredders are equipped with a special feeding trough sized to take pipes of up to 6 m length. A powerful hydraulic ram forces the pipes into the rotor.

### General Description

The P shredder is the world's first single shaft shredder capable of handling large diameter pipes (up to 1200mm dia ) without the need for pre cutting. Since their introduction they have become the per se standard for pipe shredding and are used world-wide by leading pipe manufacturers. More than 200 installations demonstrate our technological leadership in this industry and continuing innovation is based on market demands and customer feedback. Dependent on pipe diameter, the P rotor diameters and widths range from 800mm up to 1500 mm. The standard hopper accepts pipe lengths of up to 6 m. The combination of advanced controls, low rotor speed, and smooth hydraulics create a reliable and easy to use system.

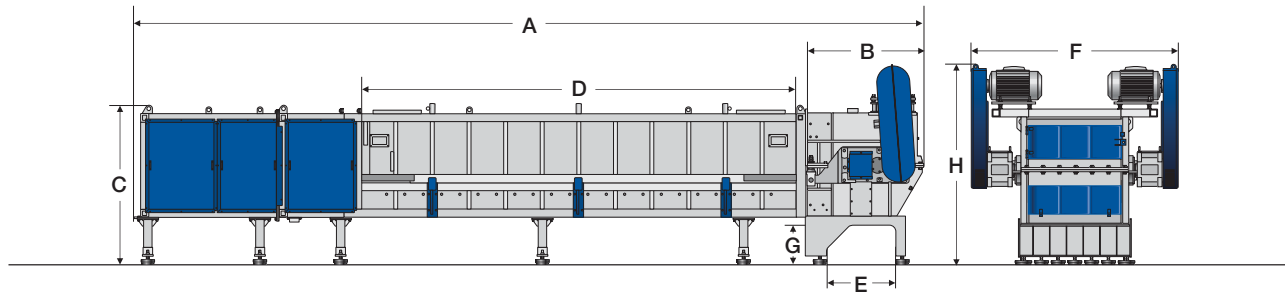
### Applications

The main focus of the P shredders is the shredding of large diameter pipes or bundles of smaller pipes and profiles made from HDPE, PP and PVC. The machines can also be used for recycling of other plastic materials such as large lumps, stacked wheelie bins and pallets. In combination with other Virtus size reduction equipment such as granulators and pulverizers we are able to provide a complete turn-key recycling solution.

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# P Series

## Pipe/profile Shredder



### Technical Specifications and Dimensions

Model	800	1000	1500	2000
Rotor diameter (mm)	852	1033	1482	1650
Rotor width (mm)	850	1130	1410	2000
Rotor speed (rpm)	40	36	23	18
Drive capacity (kW)	2 x 37	2 x 45	2 x 55	2x75
Rotor knives (pcs)	60	81	136	264
Stator blades (pcs)	4	4	5	5
Ram feeder drive (kW)	11	15	15	18.5
Feeding trough volume (m <sup>3</sup> )	2.7	6.7	12.6	16
Biggest pipe (mm)	3500 x Ø630	6500 x Ø850	6500 x Ø1200	6500xØ1800
Weight approx (kg)	11000	16000	25000	40000
A (mm)	7695	11940	12180	13800
B (mm)	1420	1580	1820	2380
C (mm)	1830	1965	2320	2920
D (mm)	3860	6720	6720	7200
E (mm)	975	1080	1080	1200
F (mm)	2545	2965	3250	3900
G (mm)	590	590	590	590
H (mm)	2565	2660	3160	4172

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# T Series

## Shredder For Car Tires

- Single large diameter rotor (750 mm)
- Proprietary knife design and material
- Variable knife gap to improve separation of steel and rubber
- Compact Heavy Duty design
- High throughput rates
- Fast and easy tool change and maintenance



The Virtus tire shredders use special highly wear resistant tungsten carbide flat knives. These knives ensure a long lifetime of working with abrasive and contaminated materials.



The T shredders are equipped with large diameter flat rotors with weld on hard facing. The knives are fixed in special knife holders fitted in machined pockets.



The oversized gearbox driving the rotor is supported by a very sturdy torque arm cushioning the shocks created while grinding.

### General Description

The T single shaft shredders are specially designed for the processing of complete or pre shred tires. Both machines feature a 750 mm diameter rotor with width options 1500mm to 3000 mm with oversized outboard bearings and twin gear drives. The tangential infeed ensures optimal feeding of the input materials while eliminating the need for a hydraulic feeding system. All tire shredders are equipped with a complete wear package including rotor hard facing plus special knives and wear plates made from highly wear resistant steel. The T Series differs in the number of stator knives and the screen sizes used. The modular design makes it easy to integrate either machine into existing installations.

### Applications

The T Shredder with its single row of stator knives is used to pre shred complete car tires or large pieces of pre processed truck tires down to a size of approx 150 mm. The twin rows of stator knives and screen in the T Shredder enable it to process the tire shreds down to any required size >20 mm.

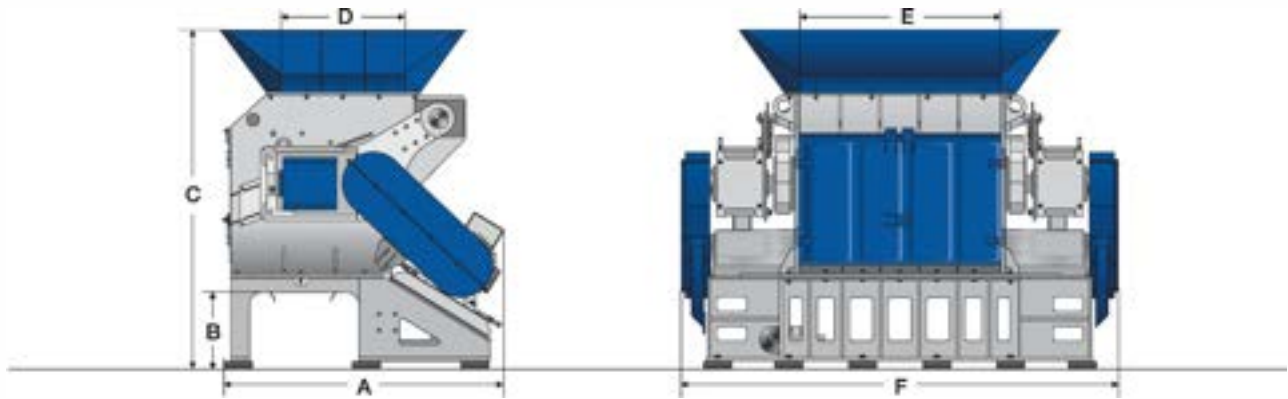
Unique machine design combined with the variable cutting gap create an optimal separation of rubber and steel when the machine is used with 20 mm screen. Therefore, steel can be removed easily during the following process with magnetic separation equipment. The machines are also used in the processing of RDF and other alternative fuel applications.

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# T Series

## Shredder For Car Tires



### Technical Specifications and Dimensions

#### Model

Rotor diameter (mm)  
Rotor width (mm)  
Rotor speed (rpm)  
Drive capacity (kW)  
Rotor knives (pcs)  
Stator blades (rows)  
Screen size (mm)

Effective working area (mm)  
Weight approx (kg)

A (mm)  
B (mm)  
C (mm)  
D (mm)  
E (mm)  
F (mm)

#### 1500

760  
1560  
41  
2 x 90  
76  
1 or 2  
80mm screen bars  
>16  
1005 x 1620  
12300  
12800

#### 2000

760  
1960  
41  
2 x 110  
96  
1 or 2  
80mm screen bars  
>16  
1005 x 2020  
15300  
16500

#### 3000

760  
2760  
41  
on request  
136  
1 or 2  
80mm screen bars  
>16  
1005 x 2820  
20500  
21500

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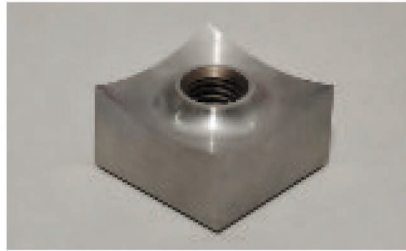
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# SG

## Shredder / Granulator Combination

- Compact space saving design
- Low noise emission
- Versatile size reduction concept
- Flexible discharge options



The SG machines rely on the proven E type rotor from the G shredders with bolted knives and knife holders.



The granulator part uses a sturdy F+ rotor to ensure a good ingestion of the material flow while still being able to handle thicker and heavier particles.



The SG system uses a sturdy, roller guided drawer type ram to feed the material into the shredder. Segmented cutting chamber and ram allow trouble free processing of thin materials.

### General Description

The SG size reduction system combines a shredder with a granulator in a single-spacing system for the processing of production waste.

The shredder part is equipped with a 400mm diameter E rotor using Virtus proven knife and knife holder design, driven by a high-torque gear drive, which in comparison to a direct drive also handles tougher input materials well. The large material hopper and the powerful horizontal pusher allow processing of voluminous as well as heavier parts. The lower part of the system consists of a 3-blade granulator rotor based on the C series. The shredder and granulator are matched to work together ideally and in conjunction with an advanced control system to ensure smooth, reliable operation.

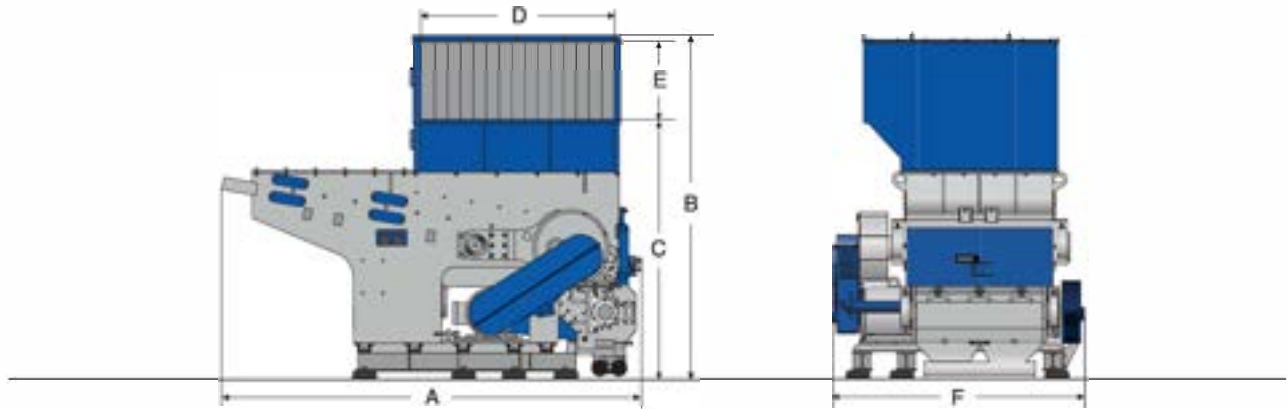
### Applications

The SG system has been designed mainly for in-house use in blow and injection molding applications, yet it can be adopted in other fields too. The small foot print allows the system to be integrated into existing factory workshops easily. Being a closed system also reduces the risk of contamination compared to using a conveyor belt in a traditional two stage recycling system. The system is well suited for large volume parts and thicker materials such as flush or purging.

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## Shredder / Granulator Combination



### Technical Specifications and Dimensions

#### Model

	600	1000	1400
Feed opening	570 x 490	1500 x 600	1880 x 1000
Rotor width	570 mm	1000 mm	1400 mm
Rotor diameter (Shredder)	310 mm	400 mm	400 mm
Drive capacity (Shredder)	11 kW	30 kW	45 kW
Hydraulic drive capacity (Shredder)	0.75 kW	3.75 kW	3.75 kW
Rotor knives (Shredder)	13/26	27 /54	34
Stator knives (Shredder)	1 x 2	1 x 4	1 x 5
Rotor diameter (Granulator)	300 mm	300 mm	350 mm
Motor capacity (Granulator)	7.5 kW	15 kW	22 kW
Rotor knives (Granulator)	3 x 2	3 x 2	3 x 4
Stator knives (Granulator)	2 x 1	2 x 1	2 x 2
A(mm)	1960	3348	4250
B(mm)	2370	2750	3410
C(mm)	1840	2080	2355
D(mm)	570	1538	1880
E(mm)	490	600	1000
F(mm)	1550	1990	2500

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