RECYCLE | REUSE THE FUTURE

www.aviangranulator.us
Avian Factory

Avian Australia
Since 1962

Avian China
Since 1997

Avian USA
Since 1999

Avian Germany
Since 1999
Avian Machinery is a world-class manufacturer that supplies high quality size reduction machinery to the plastics, rubber and recycling industries. Boasting manufacturing, distribution and service facilities located in Illinois, Sydney, Shanghai and Germany, the company has an established international presence designed to meet global demand for its products.

The parent company of Avian Machinery was founded in Australia in 1962 and has since expanded across the world. Key operational centres now exist in Japan, Middle East, Germany, USA, Australia, Korea, Russia, Croatia and China.

Avian manufacture a comprehensive range of machinery including low, medium and high speed granulators, pulverisers, shredders and product washing and drying lines, which are ideal for block, film and sheet plastic, as well as other specialised materials such as rubber.

Today, Avian supply into a various key industries from automotive and recycling to electronic, chemical, plastic and packaging.
Avian's comprehensive manufacturing enterprise includes R&D (research and development) and trial production facilities, fabrication and production of granulators, shredders and pulverisers, assembly and testing and customer product trails areas.

With complete control over the manufacturing process, Avian is able to ensure adherence to the highest quality control standards during each stage of processing and thus maintain product excellence.

Avian processing efficiency is further advanced by the use of cutting-edge automated and integrated machinery, including world-class laser cutting machines, fully automatic robotic welders, and CNC lathes to name but a few.
Waste recycling, washing and reusing

Avian also supply waste material washing equipment, including pre-washing, friction washing, high speed washing, centrifugal and hot air dryers and balers as individual pieces of equipment or with the shredders and granulators as a complete turnkey recycling line.

Applications include:

1. Electronic waste (e.g. refrigerators, TV, air conditioning, cell phones etc)

2. Film waste (e.g. Agricultural films, packaging films, garbage bags etc)

3. Waste HDPE containers (e.g. milk bottles, shampoo bottles, oil containers, powder barrels and water bottles etc)

4. Waste PET drinks bottles (e.g. soda water, fizzy drinks and carbonated water etc)

5. Waste ridged plastics (e.g. automobile parts, toys, ridged plastics, ABS/PP/PS etc)
Avian Waste recycling, washing and reusing
The worldwide increase in motor vehicle production means recycling scrap tyres is becoming more and more essential.

Avian shredders and granulators can be supplied for tyre recycling for standalone individual application as part of the tyre recycling process or can be supplied as a complete integrated tyre recycling line separating the steel, textile and rubber into individual elements.
The Avian pulveriser range are designed for pulverising semi rigid, brittle and impact resistant LDPE, HDPE, UPVC and PC etc materials into powder.

The pulveriser works by feeding 6-8mm granules, via the vibrating feeder, into the high speed rotating serrated disks, the size of the powder can be reduced from 1000-300 micron and can be set by the easily adjustable spacing between the disks without opening the unit.
Avian manufacturing has designed a standard range of specialist shredders for PVC, PPR & PE pipes and profile extrusions.

Avian pipe and profile extrusion shredders are designed to be energy efficient with high material throughputs.

Avian pipe and profile extrusion shredders have a maximum capacity of 2500mm diameter pipes up to 9000mm long with a maximum throughput up to 6000kg/h.

Avian can design pipe and profile extrusion shredders to suit a customer’s specific application and products, for example pipes of 3000mm or 6000mm long.
Thermal forming, Blow molding and Rotational molding Recycling

Avian G and GN series of granulators are suitable for regrinding thermoformed, rotational moulded and blow moulded products to name a few made from PE, HDPE, LLDPE, PP and PET and other materials.

Applications for the G and GN series of granulators include garbage bins, food packaging, electrical packaging and daily use plastic liquid and solids containers, these can be either hand fed by operators or fully automatic systems integrated into the customer’s production process.

Both the G and GN series of granulators have high capacity highly efficient cutting chamber designs that give low dust and low noise during use.
Avian GF series of granulators are specially designed for sheet and thermoforming products made from PET, PP, PS and PC materials.

The GF series granulators have driven inlet feed rollers with variable drive motor speed and material tension swing arms control so it can be manually adjusted to suit the process or fully integrated into the customer’s control system.

The GF series of granulators have high capacity highly efficient cutting chamber designs that give low dust and low noise during use.
Injection Molding Items, online and centralized Recycling

Avian GF series of granulators are specially designed for film products made from BOPP, BOPET, BOPA, PE, PVC and PC materials.

The GF series granulators are designed to overcome the problems associated with thin film lightweight materials running at high production speeds, having driven inlet feed rollers with variable speed control and can be either hand fed by operators or fully automatic systems integrated into the customer’s production process.

The GF series of granulators have high capacity highly efficient cutting chamber designs that give low dust and low noise during use.
Avian GF series of granulators are specially designed for film products made from BOPP, BOPET, BOPA, PE, PVC and PC materials.

The GF series granulators are designed to overcome the problems associated with thin film lightweight materials running at high production speeds, having driven inlet feed rollers with variable speed control and can be either hand fed by operators or fully automatic systems integrated into the customer’s production process.

The GF series of granulators have high capacity highly efficient cutting chamber designs that give low dust and low noise during use.
## Avian Shredder And Granulator

### T-REX
**GXX Series Granulator**
- **Model**
  - GXX 1000
  - GXX 1100
  - GXX 1200
- **Motor (KW)**
  - 300–400
  - 300–400
  - 300–400
- **Cutting Chamber (mm)**
  - 1000x2500
  - 1100x2500
  - 1200x2500

### G80 Series
**Heavy-duty Granulator**
- **Model**
  - G80/120
  - G80/160
  - G80/200
- **Motor (KW)**
  - 130–200
  - 132–250
  - 160–300
- **Cutting Chamber (mm)**
  - 800x1200
  - 800x1600
  - 800x2000

### G70/60 Series
**Large Granulator**
- **Model**
  - G60/80
  - G70/100
  - G70/120
  - G70/150
- **Motor (KW)**
  - 75–110
  - 75–132
  - 75–160
  - 75–160
- **Cutting Chamber (mm)**
  - 600x800
  - 700x1000
  - 700x1200
  - 700x1500

### G50 Series
**Medium Size Granulator**
- **Model**
  - G50/60
  - G50/80
  - G50/100
  - G50/120
- **Motor (KW)**
  - 22–55
  - 37–75
  - 45–100
- **Cutting Chamber (mm)**
  - 500x800
  - 500x800
  - 500x1000
  - 500x1200
### GN45 Series
**Full Soundproofing Granulator**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>Cutting Chamber (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GN45/30</td>
<td>7.5-11</td>
<td>450x300</td>
</tr>
<tr>
<td>GN45/60</td>
<td>11-18.5</td>
<td>450x600</td>
</tr>
<tr>
<td>GN45/90</td>
<td>11-22</td>
<td>450x900</td>
</tr>
<tr>
<td>GN45/120</td>
<td>15-37</td>
<td>450x1200</td>
</tr>
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</table>

### GN35 Series
**Full Soundproofing Granulator**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>Cutting Chamber (mm)</th>
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</thead>
<tbody>
<tr>
<td>GN35/30</td>
<td>4-7.5</td>
<td>300x300</td>
</tr>
<tr>
<td>GN35/60</td>
<td>5.5-15</td>
<td>300x600</td>
</tr>
<tr>
<td>GN35/90</td>
<td>7.5-15</td>
<td>300x900</td>
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</table>

### G46 Series
**Soundproof Granulator**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>Cutting Chamber (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G46/30</td>
<td>7.5-11</td>
<td>460x310</td>
</tr>
<tr>
<td>G46/40</td>
<td>11-15</td>
<td>480x410</td>
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<tr>
<td>G46/60</td>
<td>15-18.5</td>
<td>460x620</td>
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<tr>
<td>G46/80</td>
<td>22-30</td>
<td>460x800</td>
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### GH30 Series
**High Speed Soundproof Granulator**

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>Cutting Chamber (mm)</th>
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</thead>
<tbody>
<tr>
<td>GH30/20</td>
<td>4-7.5</td>
<td>300x200</td>
</tr>
<tr>
<td>GH30/28</td>
<td>5.5-15</td>
<td>300x280</td>
</tr>
<tr>
<td>GH30/36</td>
<td>7.5-15</td>
<td>300x360</td>
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</tbody>
</table>
Avian Shredder And Granulator

GL Series
Low Speed Granulator

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>Cutting Chamber (KW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GL-005</td>
<td>0.5</td>
<td>164x161</td>
</tr>
<tr>
<td>GL-01</td>
<td>1</td>
<td>248x250</td>
</tr>
<tr>
<td>GL-02</td>
<td>2</td>
<td>248x250</td>
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<tr>
<td>GL-03</td>
<td>3</td>
<td>354x328</td>
</tr>
<tr>
<td>GL-05</td>
<td>5</td>
<td>424x460</td>
</tr>
</tbody>
</table>

ZM Pulverizer
Pulverizer

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>PVC Granulating Capacity</th>
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</thead>
<tbody>
<tr>
<td>ZM300</td>
<td>37</td>
<td>150~200 kg/h</td>
</tr>
<tr>
<td>ZM500</td>
<td>55</td>
<td>200~400 kg/h</td>
</tr>
<tr>
<td>ZM800</td>
<td>75</td>
<td>500~700 kg/h</td>
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</table>

GF Film Granulator
Film & Sheet Granulator

<table>
<thead>
<tr>
<th>Model</th>
<th>Motor (KW)</th>
<th>Cutting Chamber (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GF46/80</td>
<td>22</td>
<td>480x600</td>
</tr>
<tr>
<td>GF50/80</td>
<td>30</td>
<td>500x600</td>
</tr>
<tr>
<td>GF60/100</td>
<td>75</td>
<td>600x1000</td>
</tr>
<tr>
<td>GF80/120</td>
<td>110</td>
<td>800x1200</td>
</tr>
<tr>
<td>GF80/200</td>
<td>180</td>
<td>800x2000</td>
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</tbody>
</table>