

# Weighbatch ( Aust ) Ltd

## Trim Recycler “ Piranha 45 / 60 ”



### Specification

- The Piranha 45 / 60 is an online trim recycler that reprocess edge trims and small reels in real time !
- It accepts edge trims from Blown/Cast film lines , via a blower , and small rolls of film from beside the Machine
- The Piranha 45/60 is also available with attachments to feed dedicated Large reels of film , pre-granulated or hand feed waste from industrial waste streams
- It's compact extruder, repalletizes the waste back into a virgin like Granule , Dust Free which can be re-used through any Gravimetric or Volumetric feeder .
- Maximum Output : P45- 45 kg/hr , P60- 80kg/hr
- Material Infeed : HDPE , LDPE , LLDPE & Blends
- Finished Product : 2-3 mm pelletized granule
- Installed Power : P45 - Max Installed 18.7 kW  
P60 - Max Installed 24.5 kW
- Running Power : P45 - 9.5 kW @ 45 kg/hr  
P60 – 14.5kW @ 80 kg/hr
- Efficiency : 4.5 Kgs per kW
- Floor Space : Max 1.8 L x 0.95 W x 2.2 H

### Standard Features

- Siemens PLC and Drives
- 11 kW or 15 kW- Variable Speed Main Drive
- Auto Pellet Length control Via Motor Load to keep pellet length constant , irrespective of output
- D-Tec pellet Detection system to stop machine in event of no pellets
- Low Temp heat soak Feature – Machine requires 20 minutes to soak prior to starting
- 180 Degree Horizontal Pivot on Dicer to allow full access to Dicer and safe access to blade changing
- You Tube Link : <https://www.youtube.com/watch?v=qqSmVKrqMxY&t=2s>



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## Operating Features

The Piranha 45/60 use a dual Geometry low L/D ratio screws, manufactured from En41A, nitride hardened, ground and polished. Barrels are manufactured from En40B, honed finish and nitride hardened Zambello extruder gearboxes are used as standard with close coupled AC motors and Siemens HMI / PLC control. All models regardless of the pelletizing system are fitted with auto pellet length control, cold start protection and D-Tec material shutdown , along with other safety features.

All Piranha 45/60 machines are finished in a polyester Powder-coat finish

Edge trims from the Winder are blown into the Trim / Air separator basket , which allows trims to gently fall into the hopper entry , and directly onto the Piranha 45/60 dual diameter screw (7.5:1 L/D) .

The screw quickly removes the trims , then gently compresses them into the forward tapered section of the screw . The condensed material is gently heated , plasticized then extruded through a multi-hole die face .

The polymer is then pelletized using the integral air-cooled pelletizer, where molten polymer exits the die face and is cut by a rotating variable speed die face cutter, it is then drawn into a transporter fan where the granules are then transported through metal ducting / pipework (nominal length of 12 – 15m and 140mm dia.) to an air separation cyclone.

The cooled granules then exit the cyclone directly into the customer's day bin or bagging station.

### Available Options

- **Water Cooled Cut Off**
- **Heavy Duty Reelfeed and/or Hand feed**
- **Auger Feed for Pre Granulated material**

