PLASMAC is the ideal partner for plastics processors who require innovative technology to gain a competitive edge. We provide reliable plastics recycling and trim conveying systems, paired with fast service and support. With our manufacturing plant based in the UK, PLASMAC utilises the group branch offices throughout Europe, North America, Latinamerica, Asia and the Middle East to offer local support and service.

We continuously listen to our customers’ needs and requirements in order to offer ideas and solutions developed with PLASMAC passion.

Our rapid growth is attributed to our professional team members who design unique flexible solutions to meet our customer’s needs.

From design and manufacture through installation, training and after sales support, PLASMAC works closely with you, the customer. Through the HQ Service Department based in the UK we provide the best and fastest support all over the world coordinating with our Group local service offices to be closer to our customer.
PLASMAC’s patented Short Screw Technology means:

- Minimal power consumption.
- Low shear.
- Minimum process dwell time.
- Absolute minimal material degradation.
- Highest output / kW installed power in the market.
- Direct extrusion design, no prior size reduction required.
- Perfect for in-line trim recycling.

Why choose an Alpha?

Utilise PLASMAC’s patented SHORT SCREW TECHNOLOGY

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Other forms of scrap can be processed (see ancillaries).

Tailor your Alpha for every application.

Available in air cooled and water cooled designs on the market.

PLASMAC’s patented Short Screw Technology ensures:

- Screw size & output.
- Minimal power consumption & the highest output / kW installed power in the market.
- Low shear, minimum process dwell time and absolute minimal material degradation.
- Direct extrusion design, no prior size reduction required.
- SY-View HMI Control – Frees up the operators to run other plant equipment.
- Reduced maintenance and improves your return on investment.
- SY-View HMI Control – Feeds up the operators to run other plant equipment.
- Minimal footprint extrusion machine available on the market – minimal floor space required freeing up valuable space on the floor.
- SY-View HMI Control.

Available in air cooled and water cooled designs.

Select from manual, continuous, backflush or full automatic screen changers.

SY-View HMI Control.

Smallest footprint extrusion machine available on the market.

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Smallest footprint extrusion machine available on the market.
Utilises PLASMAC’s patented SHORT SCREW TECHNOLOGY

SST technology ensures:

- minimal power consumption.
- low shear.
- minimum process dwell time.
- absolute minimal material degradation.
- highest output / kW installed power in the market.
- Integrated single shaft, low speed shredder:
  
  CAN RECYCLE NEARLY ANY FORM OF WASTE MATERIAL
  PATENTED SHREDDER SCREEN DESIGN
  AUTOMATED START-UP, RUNNING AND SHUT DOWN CONTROL

PLASMAC’s patented Short Screw Technology means:

- Can be supplied non-vented or vented with a single or double vent.
- Multiple feed systems available, including elevator with integrated metal detector, roll-feed or trim basket feed (see ancillaries).
- Available in air cooled (up to the Omega 180) and water cooled designs.
- Select from manual, continuous, backflush or full automatic screen changers.
- SY-View HMI Control.
- Smallest footprint extrusion machine available on the market.

**WHY CHOOSE AN OMEGA**

PLASMAC’s patented Short Screw Technology means:

- Minimal power consumption & the highest output / kW installed power in the market – gives you lower running costs so improves your return on investment.
- Low shear, minimum process dwell time and the absolute minimal material degradation – means you can recycle all your scrap material reducing your material costs.
- Integrated single shaft, low speed shredder – minimal is imparted to the material, meaning no additional rotor cooling is required, reduces running costs and maintenance.
- Smallest footprint extrusion machine available on the market – minimal floor space required freeing up valuable space for other applications.
- SY-View HMI Control - Frees up the operators to run other plant equipment, reduced personnel overheads.

**SCREW SIZE & OUTPUT**

<table>
<thead>
<tr>
<th>OMEGA MODEL</th>
<th>COOLING</th>
<th>OUTPUT (Kgh)*</th>
<th>MOTOR (AC) kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMEGA ECO</td>
<td>✔ ✔</td>
<td>120</td>
<td>18.5</td>
</tr>
<tr>
<td>OMEGA 150</td>
<td>✔ ✔</td>
<td>150</td>
<td>22</td>
</tr>
<tr>
<td>OMEGA 180</td>
<td>✔ ✔</td>
<td>180</td>
<td>30</td>
</tr>
<tr>
<td>OMEGA 250</td>
<td>✔ ✔</td>
<td>250</td>
<td>37</td>
</tr>
<tr>
<td>OMEGA 340</td>
<td>✔ ✔</td>
<td>340</td>
<td>55</td>
</tr>
<tr>
<td>OMEGA 400</td>
<td>✔ ✔</td>
<td>400</td>
<td>90</td>
</tr>
<tr>
<td>OMEGA 600</td>
<td>✔ ✔</td>
<td>600</td>
<td>132</td>
</tr>
<tr>
<td>OMEGA 800</td>
<td>✔ ✔</td>
<td>800</td>
<td>160</td>
</tr>
</tbody>
</table>

*Dependent on type and format of material
Plastic recycling systems for every application

SST technology ensures

- Minimal power consumption.
- Low shear.
- Minimum process dwell time.
- Absolute minimal material degradation.
- Highest output / kW installed power in the market.
- Direct extrusion design, no prior size reduction required.
- Perfect for in-line trim recycling.
- Other forms of scrap can be processed (see ancillaries).
- Tailor your Alpha for every application.
- Available in air cooled and water cooled designs.
- Select from manual, continuous, backflush or full automatic screen changers.
- SY-View HMI Control.
- Smallest footprint extrusion machine available on the market.

Why choose an OMEGAECO

PLASMAC's patented Short Screw Technology means

- Minimal power consumption & the highest output / kW installed power in the market – gives you lower running costs so improves your return on investment.
- Low shear, minimum process dwell time and the absolute minimal material degradation – means you can recycle all your scrap material reducing your material costs.
- Integrated single shaft, low speed shredder – minimal is imparted to the material, meaning no additional rotor cooling is required, reduces running costs and maintenance.
- Smallest footprint extrusion machine available on the market – minimal floor space required freeing up valuable space for other applications.
- SY-View HMI Control - Frees up the operators to run other plant equipment, reduced personnel overheads.

Perfect for Inline or Offline Recycling

- Proven technology for inline trim conveying applications with speeds of up to 250 m/min and outputs of up to 120 kg/h.
- Inline machines running on highly filled CaCo3 PE, Bio-degradable and standard PE materials.
- Inline machines available with air or water cooling.
- Offline technology for Bio-degradable materials with vacuum degassing and water cooled pelletizing technology.
- Able to recycle both inline trims, reel scrap and loose materials simultaneously.
Plastic recycling systems for every application

Utilises PLASMAC’s patented SHORT SCREW TECHNOLOGY

SST technology ensures

- minimal power consumption.
- low shear.
- minimum process dwell time.
- absolute minimal material degradation.
- highest output / kW installed power in the market.
- Compactor technology, gives the highest output per screw diameter.
- With compactor technology, materials with up to 10% residual moisture can be processed with homogeneous uniform output.

- Can be supplied non-vented or vented with a single or double vent.
- Multiple feed systems available, including elevator with integrated metal detector, roll-feed or trim basket feed (see ancillaries).
- Available in air cooled (up to the Integra 150) and water cooled designs.
- Select from manual, continuous, backflush or full automatic screen changers.
- SY-View HMI Control.
- Smallest footprint extrusion machine available on the market.

Why choose an INTEGRA

PLASMAC’s patented Short Screw Technology means

- Minimal power consumption & the highest output / kW installed power in the market – gives you lower running costs so improves your return on investment.
- Low shear, minimum process dwell time and the absolute minimal material degradation – means you can recycle all your scrap material reducing your material costs and so improves your return on investment.
- Compactor technology gives you the highest output per screw diameter – giving you the lowest investment cost.
- Compactor technology allows you to process material with up to 10% moisture with no pre-drying – means no other costly equipment is required and reduces maintenance.
- Smallest footprint extrusion machine available on the market – minimal floor space required freeing up valuable space for other applications.
- SY-View HMI Control - Frees up the operators to run other plant equipment, reduced personnel overheads, improves your return on investment.

Screw Size & Output

<table>
<thead>
<tr>
<th>INTEGRA MODEL</th>
<th>COOLING</th>
<th>OUTPUT Motor (AC)</th>
<th>MOTOR Motor kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integra 150</td>
<td>✔</td>
<td>150</td>
<td>15</td>
</tr>
<tr>
<td>Integra 200</td>
<td>✔</td>
<td>200</td>
<td>30</td>
</tr>
<tr>
<td>Integra 300</td>
<td>✔</td>
<td>300</td>
<td>37</td>
</tr>
<tr>
<td>Integra 450</td>
<td>✔</td>
<td>450</td>
<td>75</td>
</tr>
<tr>
<td>Integra 550</td>
<td>✔</td>
<td>550</td>
<td>90</td>
</tr>
<tr>
<td>Integra 800</td>
<td>✔</td>
<td>800</td>
<td>110</td>
</tr>
</tbody>
</table>

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Plastic recycling systems for every application

Used in conjunction with the trim basket, the Powerfeed system pneumatically conveys trims from the winder to the trim basket. Its unique design ensures that the trims are delivered to the basket with minimal air entrainment, meaning the trims feed perfectly into the recycling system.

Various sizes of system are available to convey edge and bleed trims, line speeds in excess of 250 m/min can easily be accommodated.

**TRIM BASKET**

Used for air conveyed trim, the trims and air enter the basket from the side which creates an ‘air curtain’, allowing the trims to spiral directly on to the screw, excess air is exhausted through the perforated sides.

**VACUUM DEGASSING STATION**

Single or double vacuum degassing stations can be fitted on to any of Plasmacs range of machines, the type depends on the contamination or type of volatile on, or in the material. Vacuum venting allows printed materials, hydroscopic materials or materials with volatiles to be vented to improve the final quality of the pellets produced.

**ELEVATOR**

Primarily used on the Omega or Integra machines. Made in different widths and lengths based on the machine it will feed. Normally fitted with an integrated Metal Detector to stop any metal from passing in to the machine. Can feed, loose, slabbed, lump and many other forms of scrap material and can be used simultaneously with a Rollfeed and / or trim basket system.

**SCREEN CHANGERS**

Manual, hydraulic, or fully automatic back-flushing screenchangers are available, depending on the application and the level of contamination in the material being processed.
HAUL OFF
An industry proven haul-off, designed as an alternative system to the Powerfeed system to remove in-line trim and comes complete with the facility to be synchronised with the OEM winder to maintain constant tension. Our Haul Off units can be used with all the Plasmac range of recycling machines or as a stand-alone unit to remove trim to a storage facility.

METAL DETECTION
A full range of units are available including both normal and ultra-high sensitivity versions designed to reliably detect both ferrous and non-ferrous contamination. Available for all machines.

REELFEED
The latest versions of our proven feeding unit. Available with a range of rollers to suit almost any application these simple yet robust units provide the basis of our feeding options. Fully automatic operation, available for all machines in sizes from 300mm to 800mm widths. All units have an adjustable pneumatic tension system as standard.
The Reelfeed can be run simultaneously with in-line trim when used with the Alpha series recycling extruders or as a dedicated system for off-spec reels.

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